TABLE 1

SEQ ID NO	sequence	DBAxnID
8637	ggatcgcaccgtgatgggcaggatc	W51025
8638	atcgcaccgtgatgggcaggatcgc	W51025
8639	aaatcgagcacttcatccacctcat	W51025
8640	cttcattctctctctgatccttgag	W51025
8641	tcattctctctctgatccttgagta	W51025
8642	tctctgatccttgagtacacctggc	W51025
8643	tctgatccttgagtacacctggctc	W51025
8644	atccttgagtacacctggctcgagg	W51025
8645	ttgagtacacctggctcgaggctgt	W51025
8646	cgaggctgtcatcttcctcattggt	W51025
8647	aactgcacgtggcatcgttgtgtac	W51025
8648	ctgcacgtggcatcgttgtgtacac	W51025
8649	gcacgtggcatcgttgtgtacactg	W51025
8650	ggcatcgttgtgtacactggggatc	W51025
8651	catcgttgtgtacactggggatcgc	W51025
8652	tgtgtacactggggatcgcaccgtg	W51025
8653	tgtacactggggatcgcaccgtgat	W51025
8654	tacactggggatcgcaccgtgatgg	W51025
8655	atttccctatccatgctatgatgaa	M13226
8656	ctatccatgctatgatgaatataca	M13226
8657	tattttgcgaggcatcacctctttt	M13226
8658	gcgaggcatcacctcttttggtgga	M13226
8659	agatcgccgatggcctggtgtctat	M13226
8660	ccgatggcctggtgtctatactttc	M13226
8661	tgtctatactttcctctcagataaa	M13226
8662	tactttcctctcagataaacacctc	M13226
8663	cctctcagataaacacctcaattgg	M13226
8664	agataaacacctcaattggataaag	M13226
8665	aatgtatgtctttcactccatccct	M13226
8666	tgtcacttctgtgtctgatcacaaa	M13226
8667	aaatgtggctatccttcacctacct	M13226
8668	taagtcagctccctctgaaactctg	M13226
8669	agtcaacatcactgtcatagacaga	M13226
8670	catcactgtcatagacagaaaaatc	M13226
8671	aaaggactcctgcaatggggattct	M13226
8672	ctcctgcaatggggattctggcagc	M13226
8673	tggcagccctctgctatgtgatggt	M13226
8674	ccctctgctatgtgatggtattttg	M13226
8675	gctcctgcgaccgaaaaggacttgc	W51102
8676	ctcctgcgaccgaaaaggacttgcg	W51102
8677	tgctgcgtcctgctgaccttcgggt	W51102
8678	ctgaccttcgggtttgtgagagctg	W51102
8679	tgaccttcgggtttgtgagagctga	W51102
8680	accttcgggtttgtgagagctgacg	W51102
8681	ccttcgggtttgtgagagctgacga	W51102
8682	gaaggctcacggacagacgatgaag	W51102
8683	aaggctcacggacagacgatgaagt	W51102
8684	ggctcacggacagacgatgaagttg	W51102
8685	tgtttaaattgcttcacaattaggg	W51102
8686	ttgcttcacaattaggggaccttag	W51102
8687	aaggacttgcgactctccggccacg	W51102
8688	tccggccacgcaccaatgagggtcc	W51102
8689	ccggccacgcaccaatgagggtcct	W51102
8690	ggccacgcaccaatgagggtcctgt	W51102
8691	gccacgcaccaatgagggtcctgtg	W51102
8692	cacgcaccaatgagggtcctgtggg	W51102
8693	acgcaccaatgagggtcctgtgggt	W51102
8694	caccaatgagggtcctgtgggtgct	W51102
8695	tccatcagcagacctgctggcgtct	W51109
8696	ccatcagcagacctgctggcgtctg	W51109
8697	ttctgcagttgcaactcttcgaccc	W51109
8698	tctgcagttgcaactcttcgacccg	W51109
8699	tgcaactcttcgacccggctctcga	W51109
8700	caactcttcgacccggctctcgaga	W51109
8701	actcttcgacccggctctcgagaca	W51109
8702	ctcttcgacccggctctcgagacaa	W51109
8703	cttcgacccggctctcgagacaact	W51109
8704	ttcgacccggctctcgagacaactt	W51109

SEQ ID NO:	sequence	DBAxnID
51241	ttgagctctccctgtgggactggat	AA036546
51242	tgagctctccctgtgggactggata	AA036546
51243	gagctctccctgtgggactggataa	AA036546
51244	agctctccctgtgggactggataac	AA036546
51245	gctctccctgtgggactggataact	AA036546
51246	tctccctgtgggactggataactga	AA036546
51247	ctccctgtgggactggataactgag	AA036546
51248	aacctggtgagctacacggccaact	AA036546
51249	gtgagctacacggccaacttagtgg	AA036546
51250	gagctacacggccaacttagtggtc	AA036546
51251	agctacacggccaacttagtggtca	AA036546
51252	gctacacggccaacttagtggtcag	AA036546
51253	ctacacggccaacttagtggtcagg	AA036546
51254	cggccaacttagtggtcaggaacag	AA036546
51255	aaagtgaatcgtccattgagctctc	AA036546
51256	gtcaatcaaaacggctgcactccac	AA035825
51257	tcaatcaaaacggctgcactccact	AA035825
51258	ccactccattatgcagcttcgaaga	AA035825
51259	cactccattatgcagcttcgaagaa	AA035825
51260	cattacgatgctacagcgatgcacc	AA035825
51261	attacgatgctacagcgatgcaccg	AA035825
51262	ttacgatgctacagcgatgcaccgg	AA035825
51263	tacgatgctacagcgatgcaccggg	AA035825
51264	acgatgctacagcgatgcaccgggc	AA035825
51265	cgatgctacagcgatgcaccgggca	AA035825
51266	gatgctacagcgatgcaccgggcag	AA035825
51267	atgctacagcgatgcaccgggcagc	AA035825
51268	caatcaaaacggctgcactccactc	AA035825
51269	tgctacagcgatgcaccgggcagca	AA035825
51270	aatcaaaacggctgcactccactcc	AA035825
51271	atcaaaacggctgcactccactcca	AA035825
51272	tcaaaacggctgcactccactccat	AA035825
51273	aaacggctgcactccactccattat	AA035825
51274	acggctgcactccactccattatgc	AA035825
51275	tgcactccactccattatgcagctt	AA035825
51276	cactccactccattatgcagcttcg	AA035825
51277	cagatgccacgggacaaatggagca	X67274
51278	ctcctggccagacacatggagagct	X67274
51279	tgactcacgttcttaatacccactg	X67274
51280	ttaatacccactgtcaggcatgcca	X67274
51281	cccactgtcaggcatgccacgtgtc	X67274
51282	acgtgtccccagagctttacagagc	X67274
51283	agctttacagagccacgacatggct	X67274
51284	acagagccacgacatggcttggcta	X67274
51285	ccacgacatggcttggctacgtgaa	X67274
51286	acagtgccctgaaccctgtgatcta	X67274
51287	gcaaagccttcctcaagattctatc	X67274
51288	ccttcctcaagattctatcctgctg	X67274
51289	gctactacagcatctgccaagacac	X67274
51290	cttcctcaagattctatcctgctga	X67274
51291	acagcatctgccaagacactgcctt	X67274
51292	tctgccaagacactgccttgaggca	X67274
51293	aagacactgccttgaggcatccaaa	X67274
51294	tgaggcatccaaacttcgaaggagg	X67274
51295	tcggggccttcattgtctgttggct	X67274
51296	gttggctgcccttcttcttgactca	X67274
51297	tcttcttgactcacgttcttaatac	X67274
51298	ctctggatgccagaggtggaagaga	AA035892
51299	gaagagatccccgaggattagatgc	AA035892
51300	acctggacctagaggacctatgcct	AA035892
51301	acctagaggacctatgcctagtgga	AA035892
51302	ctagaggacctatgcctagtggaat	AA035892
51303	agaggacctatgcctagtggaatcc	AA035892
51304	gacctatgcctagtggaatccaagg	AA035892
51305	cctatgcctagtggaatccaaggtc	AA035892
51306	tatgcctagtggaatccaaggtccc	AA035892
51307	ggaatccaaggtcccaatccaatga	AA035892
51308	caaggtcccaatccaatgaacatgg	AA035892

SEQ ID NO	sequence	DBAxnID
93845	cagccaacctagccaagatgacaat	AA119824
93846	gccaacctagccaagatgacaattg	AA119824
93847	acctagccaagatgacaattgtgga	AA119824
93848	aattttgtatgtgccgcaagacagc	AA119824
93849	ctctatgccaccagggaccttgcag	AA119827
93850	tatgccaccagggaccttgcagctg	AA119827
93851	atacatcgcatggacaagtacaatt	AA119827
93852	atttatgtcgcagacaaagggcaaa	AA119827
93853	cattttcagcaagtgttccaaatgc	AA119827
93854	aagatcatgggctacgactgggcgg	AA119827
93855	atcatgggctacgactgggcggaaa	AA119827
93856	tacgactgggcggaaaggtgccagc	AA119827
93857	aggtgccagcatgtccccttggga	AA119827
93858	tgccagcatgtccccttgggatag	AA119827
93859	cagcatgtccccttgggatagtaa	AA119827
93860	gtcacttttctggaagatgtcttaa	AA119827
93861	gccaccagggaccttgcagctgcta	AA119827
93862	ctacagaacatggcttccattaaga	AA119827
93863	accagggaccttgcagctgctatac	AA119827
93864	agggaccttgcagctgctatacatc	AA119827
93865	gaccttgcagctgctatacatcgca	AA119827
93866	cttgcagctgctatacatcgcatgg	AA119827
93867	gcagctgctatacatcgcatggaca	AA119827
93868	gctgctatacatcgcatggacaagt	AA119827
93869	gctatacatcgcatggacaagtaca	AA119827
93870	ccgaggcgccatgggcttcatccta	AA119871
93871	tgacatcaccattgaggagtcatta	AA119871
93872	cagagcttgcccggaatctggctga	AA119871
93873	gagcttgcccggaatctggctgacc	AA119871
93874	gcttgcccggaatctggctgaccac	AA119871
93875	ttgcccggaatctggctgaccacct	AA119871
93876	gcccggaatctggctgaccacctgg	AA119871
93877	ggaatctggctgaccacctgggctt	AA119871
93878	tggctgaccacctgggctttgagtt	AA119871
93879	gctgaccacctgggctttgagttct	AA119871
93880	tgaccacctgggctttgagttcttt	AA119871
93881	cacctgggctttgagttctttgagg	AA119871
93882	atcaccattgaggagtcattaaatg	AA119871
93883	ccactcagatcaaaacttactggtg	AA119871
93884	gggacaatgcccaggtgctgctgtt	AA119871
93885	atgcccaggtgctgctgttgggaaa	AA119871
93886	atgacgcgattggtgcctcagagct	AA119871
93887	gtgcctcagagcttgcccggaatct	AA119871
93888	gcctcagagcttgcccggaatctgg	AA119871
93889	ctcagagcttgcccggaatctggct	AA119871
93890	ctgtataccaatcttttgtggcgta	AA119874
93891	gtataccaatcttttgtggcgtatt	AA119874
93892	taacttgtctggttccgtgaacaat	AA119874
93893	cttgtctggttccgtgaacaatggc	AA119874
93894	ttgtctggttccgtgaacaatggca	AA119874
93895	tctggttccgtgaacaatggcaatc	AA119874
93896	gtgaacaatggcaatcccttggcgt	AA119874
93897	gaacaatggcaatcccttggcgtac	AA119874
93898	caatggcaatcccttggcgtaccta	AA119874
93899	tggcaatcccttggcgtacctaata	AA119874
93900	ggcaatcccttggcgtacctaatag	AA119874
93901	caatcccttggcgtacctaatagtg	AA119874
93902	taccaatcttttgtggcgtatttca	AA119874
93903	caatcttttgtggcgtatttcaatt	AA119874
93904	aatcttttgtggcgtatttcaattg	AA119874
93905	tcaattgttcctaagattttcattc	AA119874
93906	agcgcatttgaacttgctgtgtaac	AA119874
93907	gcatttgaacttgctgtgtaacttg	AA119874
93908	catttgaacttgctgtgtaacttgt	AA119874
93909	tttgaacttgctgtgtaacttgtct	AA119874
93910	cgttgggactcctggaccagcagcc	M60559
93911	tgggactcctggaccagcagccgga	M60559
93912	gtgcccagcttccatgcccatggat	M60559

TABLE 1

SEQ ID NO	sequence	DBAxnID
8705	tcgacccggctctcgagacaacttt	W51109
8706	cgacccggctctcgagacaactttg	W51109
8707	catcagcagacctgctggcgtctgc	W51109
8708	atcagcagacctgctggcgtctgcg	W51109
8709	tcagcagacctgctggcgtctgcgg	W51109
8710	cagcagacctgctggcgtctgcggg	W51109
8711	cagacctgctggcgtctgcggggcc	W51109
8712	cagcttctgcagttgcaactcttcg	W51109
8713	gcttctgcagttgcaactcttcgac	W51109
8714	cttctgcagttgcaactcttcgacc	W51109
8715	aatatttgcggctaccccagctggt	M17031
8716	tgcggctaccccagctggtggacat	M17031
8717	acgaatacacagcccggcaaggtgc	M17031
8718	acacagcccggcaaggtgccaaatt	M17031
8719	ctctgtacggcaggttcaccatcaa	M17031
8720	acggcaggttcaccatcaagtcgga	M17031
8721	ttctgctgaccgagctcaccactaa	M17031
8722	agctcaccactaagggaagagtgcc	M17031
8723	agtgccccgagtccctgcatgacct	M17031
8724	ccctgcatgaccttatgtgccagtg	M17031
8725	ttatgtgccagtgctggcggaagga	M17031
8726	ttacgtccactgagccacagtacca	M17031
8727	tggacatgtctgctcagatcgcttc	M17031
8728	tgtctgctcagatcgcttcaggcat	M17031
8729	ctcagatcgcttcaggcatggccta	M17031
8730	tcgcttcaggcatggcctatgtgga	M17031
8731	caggcatggcctatgtggagcggat	M17031
8732	tgaactatgtgcaccgggaccttcg	M17031
8733	atgtgcaccgggaccttcgagccgc	M17031
8734	accttcgagccgccaatatcctagt	M17031
8735	agcctggtggacgatacgtgcacga	W51121
8736	aacgctacgaagccatgaccagatc	W51121
8737	atctattaccggggtgctaagctgc	W51121
8738	ctattaccggggtgctaagctgcaa	W51121
8739	ctaagctgcaatgtcctgtatgact	W51121
8740	aagctgcaatgtcctgtatgactca	W51121
8741	gctgcaatgtcctgtatgactcacc	W51121
8742	tgcaatgtcctgtatgactcaccga	W51121
8743	atgtcctgtatgactcaccgacaca	W51121
8744	gtcctgtatgactcaccgacacagc	W51121
8745	cctgtatgactcaccgacacagcac	W51121
8746	tgtatgactcaccgacacagcactt	W51121
8747	cgctacgaagccatgaccagatcta	W51121
8748	ctacgaagccatgaccagatctatt	W51121
8749	gaagccatgaccagatctattaccg	W51121
8750	agccatgaccagatctattaccggg	W51121
8751	ccatgaccagatctattaccggggt	W51121
8752	atgaccagatctattaccggggtgc	W51121
8753	ccagatctattaccggggtgctaag	W51121
8754	agatctattaccggggtgctaagct	W51121
8755	gttcaatccacaactttatcgacac	W51125
8756	tcaatccacaactttatcgacacac	W51125
8757	gcgggatccaccttacaatagaaat	W51125
8758	gggatccaccttacaatagaaatga	W51125
8759	gatccaccttacaatagaaatgaac	W51125
8760	tccaccttacaatagaaatgaacaa	W51125
8761	aatgaacaagtctgctacctcttcg	W51125
8762	tgaacaagtctgctacctcttcgtc	W51125
8763	ctcttcgtccccagggagcccaatg	W51125
8764	tcgtccccagggagcccaatggcat	W51125
8765	ccagggagcccaatggcatagtttg	W51125
8766	agcccaatggcatagtttggaaaca	W51125
8767	tgaagatgacgctcctactaaacgc	W51125
8768	aagatgacgctcctactaaacgcaa	W51125
8769	gatgacgctcctactaaacgcaact	W51125
8770	tgacgctcctactaaacgcaactcc	W51125
8771	ataacaatgccgttgacagcgggat	W51125
8772	caatgccgttgacagcgggatccac	W51125

SEQ ID NO:	sequence	DBAxnID
51309	aggtcccaatccaatgaacatgggg	AA035892
51310	agagatccccgaggattagatgcac	AA035892
51311	atccccgaggattagatgcacgggg	AA035892
51312	ctagatgccagaggactggaagccc	AA035892
51313	tcgtgccatggaggccagaggactg	AA035892
51314	gactggacaccagaggcccagtacc	AA035892
51315	ctggacaccagaggcccagtacctg	AA035892
51316	cagtacctggacctagaggacctat	AA035892
51317	gtacctggacctagaggacctatgc	AA035892
51318	tgtgtcccctgctttggtggaaagt	X61448
51319	ccctgctttggtggaaagtgagata	X61448
51320	cgcctactttccttggatgtctcca	X61448
51321	ctttccttggatgtctccagctcta	X61448
51322	agctctatcgtccgcgggcccgaag	X61448
51323	cccgaagcacactgacactttgtac	X61448
51324	gcacactgacactttgtaccagcgc	X61448
51325	tgacactttgtaccagcgcctctga	X61448
51326	tttgtaccagcgcctctgaacccga	X61448
51327	cggactcgcgattggcctcattcgc	X61448
51328	cgcgattggcctcattcgcaggact	X61448
51329	tggcctcattcgcaggactttcaag	X61448
51330	ataagacctaaatcctgctaggcgt	X61448
51331	cctaaatcctgctaggcgtgaccga	X61448
51332	tcctgctaggcgtgaccgagggcct	X61448
51333	tgaccgagggcctggaagcagtttc	X61448
51334	caccctcaattccaaatgcatcagg	X61448
51335	gaattattcccaatcctagtactcg	X61448
51336	tgactgtcttcacgcctactttcct	X61448
51337	tcttcacgcctactttccttggatg	X61448
51338	gttaacgccatgctgaagaaagttg	AA035867
51339	gaaagttgccgttgcgctgcgtcta	AA035867
51340	gcgtctaagccgcaagttgaaattc	AA035867
51341	gtctaagccgcaagttgaaattcgc	AA035867
51342	aattcgccaagacggggatcaggtg	AA035867
51343	atcaggtgcacatccagacattcaa	AA035867
51344	tcaggtgcacatccagacattcaat	AA035867
51345	caggtgcacatccagacattcaata	AA035867
51346	ggtgcacatccagacattcaataat	AA035867
51347	atataattcaaggtccgagaaggct	AA035867
51348	tataattcaaggtccgagaaggctt	AA035867
51349	taattcaaggtccgagaaggctttg	AA035867
51350	aaagttgccgttgcgctgcgtctaa	AA035867
51351	aagttgccgttgcgctgcgtctaag	AA035867
51352	agttgccgttgcgctgcgtctaagc	AA035867
51353	ttgccgttgcgctgcgtctaagccg	AA035867
51354	gccgttgcgctgcgtctaagccgca	AA035867
51355	tgcgctgcgtctaagccgcaagttg	AA035867
51356	gcgctgcgtctaagccgcaagttga	AA035867
51357	tgcgtctaagccgcaagttgaaatt	AA035867
51358	gtgtaatcctccatcatctctcatt	AA035923
51359	atctctcattactcgggtttcatac	AA035923
51360	agatacttttaagcacaccgatgaa	AA035923
51361	ttttaagcacaccgatgaagagttc	AA035923
51362	taagcacaccgatgaagagttcctg	AA035923
51363	cctgaaacaggcttcaagccagaag	AA035923
51364	gaaacaggcttcaagccagaagcct	AA035923
51365	acaggcttcaagccagaagcctgcc	AA035923
51366	ttcaagccagaagcctgcctggaaa	AA035923
51367	aagccagaagcctgcctggaaagac	AA035923
51368	ccagaagcctgcctggaaagacggg	AA035923
51369	gtccactgccacgtgtgtcctggct	AA035923
51370	tctcattactcgggtttcatacttt	AA035923
51371	atactttgctgtgtttgatggacat	AA035923
51372	ctttgctgtgtttgatggacatgga	AA035923
51373	aatacgagcctcgaaatttgctgca	AA035923
51374	agcctcgaaatttgctgcacagaat	AA035923
51375	tgcacagaatttgcaccagaactta	AA035923
51376	tttgcaccagaacttaatcaggaaa	AA035923

SEQ ID NO	sequence	DBAxnID
93913	catgcccatggataccaggaaaagg	M60559
93914	taccctggctaccgtgggctgcagt	M60559
93915	ccccaggtgcagtctgtgcgtcgca	M60559
93916	cgcatccgtgacatgcagtggcacc	M60559
93917	atccgtgacatgcagtggcaccagc	M60559
93918	gacatgcagtggcaccagcgaggtg	M60559
93919	atgcagtggcaccagcgaggtgcct	M60559
93920	cagtggcaccagcgaggtgccttcc	M60559
93921	ctgacacccagagtgaagaataaag	M60559
93922	tcctggaccagcagccggaggacag	M60559
93923	tggaccagcagccggaggacagact	M60559
93924	cggaggacagactccctcagctctc	M60559
93925	tctctgaggcccatcaaagtggaca	M60559
93926	aggcccatcaaagtggacagccaag	M60559
93927	tatgagaaccccaacttactggca	M60559
93928	gacgacgatgtgcccagcttccatg	M60559
93929	gatgtgcccagcttccatgcccatg	M60559
93930	cccagctacctctgaaacttgagtc	AA124602
93931	agctacctctgaaacttgagtctga	AA124602
93932	tgatccaggagaccatccgggaagc	AA124602
93933	catttgcggactgcaccatgctgac	AA124602
93934	cggactgcaccatgctgaccattgc	AA124602
93935	actgcaccatgctgaccattgccca	AA124602
93936	gcaccatgctgaccattgcccatcg	AA124602
93937	gcctgcacacagttctgggctctga	AA124602
93938	acacagttctgggctctgacaggat	AA124602
93939	cagttctgggctctgacaggatcat	AA124602
93940	gctctgacaggatcatggtgctggc	AA124602
93941	tcatggtgctggcccagggacaggt	AA124602
93942	tacctctgaaacttgagtctgaagt	AA124602
93943	aacggcagctgttgtgcatagcaag	AA124602
93944	gcatagcaagagccctgctgcgtca	AA124602
93945	gagccctgctgcgtcactgtaagat	AA124602
93946	ccctgctgcgtcactgtaagattct	AA124602
93947	tgcgtcactgtaagattctgatttt	AA124602
93948	atgaagctacagccgctatggacac	AA124602
93949	cagccgctatggacacagagacaga	AA124602
93950	agcaaccagggatcgtactgcaggg	AA050913
93951	ggatcgtactgcaggggcaatcggc	AA050913
93952	tcaacagcctctgattacaacatgg	AA050913
93953	gcctctgattacaacatggctgaga	AA050913
93954	tctgattacaacatggctgagatca	AA050913
93955	gattacaacatggctgagatcacaa	AA050913
93956	atcacaaatatacgccccagctttg	AA050913
93957	tcaccggtagcggctggcctcatcg	AA050913
93958	actgtctttgtgtggacgtgctgcc	AA050913
93959	tggacgtgctgccaccagcaggcag	AA050913
93960	acgtgctgccaccagcaggcagaga	AA050913
93961	tgctgccaccagcaggcagagaaga	AA050913
93962	tcgtactgcaggggcaatcggccat	AA050913
93963	gaggtctacagccgcggcctcggta	AA050913
93964	cgagattcccaaagttgtctgacct	AA050913
93965	gattcccaaagttgtctgacctctg	AA050913
93966	tcccaaagttgtctgacctctgcaa	AA050913
93967	ctgacctctgcaaaagtgtttctat	AA050913
93968	tttctatcaacagcctctgattaca	AA050913
93969	ctatcaacagcctctgattacaaca	AA050913
93970	actggagcgcccatcctgacagacg	AA119959
93971	gcgcccatcctgacagacgatgtca	AA119959
93972	tctagtgcctcttaagctggtggcc	AA119959
93973	agtgcctcttaagctggtggccccg	AA119959
93974	acaatgctgtcagattgtgctcacg	AA119959
93975	tcagattgtgctcacgttgttgata	AA119959
93976	gattgtgctcacgttgttgatagcg	AA119959
93977	gctcacgttgttgatagcgtcctag	AA119959
93978	gatagcgtcctagcaacattcacct	AA119959
93979	agcgtcctagcaacattcacctttc	AA119959
93980	gtcctagcaacattcacctttcggg	AA119959

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
8773	atgccgttgacagcgggatccacct	W51125	51377	gcaccagaacttaatcaggaaattt	AA035923	93981	atgtatgtcttcaggctataatacg	AA119959
8774	cagcgggatccaccttacaatagaa	W51125	51378	tgaacctggaccacagcgctctgtt	AA035938	93982	atcctgacagacgatgtcagcctac	AA119959
8775	cacgctcagctttgtctgcacaact	W51127	51379	aacctggaccacagcgctctgttga	AA035938	93983	acagacgatgtcagcctacaggtgt	AA119959
8776	ctcagctttgtctgcacaactaaat	W51127	51380	tcactggagtccacgaagaagccac	AA035938	93984	gatgtcagcctacaggtgttcatgg	AA119959
8777	catcacaccagggctccgacatgtc	W51127	51381	gtccacgaagaagccactgaagaag	AA035938	93985	gtcagcctacaggtgttcatggatc	AA119959
8778	accagggctccgacatgtcacggac	W51127	51382	aagatatccatgacaaattcgctga	AA035938	93986	agcctacaggtgttcatggatcacc	AA119959
8779	cagggctccgacatgtcacggacga	W51127	51383	gatatccatgacaaattcgctgaat	AA035938	93987	ttcatggatcacctgaagaagctgg	AA119959
8780	gggctccgacatgtcacggacgacg	W51127	51384	tccatgacaaattcgctgaatatgg	AA035938	93988	aagctggctgtgtctagtgcctctt	AA119959
8781	tccgacatgtcacggacgacgagaa	W51127	51385	atattcaccttaatttggacaggcg	AA035938	93989	gctgtgtctagtgcctcttaagctg	AA119959
8782	cgacatgtcacggacgacgagaaaa	W51127	51386	tcaccttaatttggacaggcgcacg	AA035938	93990	tgcaagattgcccagctgcccttga	W08269
8783	acatgtcacggacgacgagaaaata	W51127	51387	taatttggacaggcgcacgggatac	AA035938	93991	attgcccagctgcccttgacaggaa	W08269
8784	atgtcacggacgacgagaaaatata	W51127	51388	acaggcgcacgggatacttgaaggg	AA035938	93992	aagactatccaagctgtgctgactg	W08269
8785	atatacgagaatcccagcttgaggg	W51127	51389	ctcaggctgccatggaaggactaaa	AA035938	93993	actatccaagctgtgctgactgtcc	W08269
8786	acgagaatcccagcttgagggccca	W51127	51390	cctggaccacagcgctctgttgaag	AA035938	93994	ggcgaacttaccaagtctctgcagg	W08269
8787	cagctttgtctgcacaactaaatca	W51127	51391	tggaccacagcgctctgttgaaggt	AA035938	93995	accaagtctctgcaggacatgaagc	W08269
8788	gaatcccagcttgagggcccaagga	W51127	51392	ccacagcgctctgttgaaggttgga	AA035938	93996	aagtctctgcaggacatgaagctac	W08269
8789	gctttgtctgcacaactaaatcagg	W51127	51393	acagcgctctgttgaaggttggatt	AA035938	93997	aagctacagtcgttgtttgaatcac	W08269
8790	tttgtctgcacaactaaatcaggga	W51127	51394	ttggattctctttgtcactggagtc	AA035938	93998	ttgtttgaatcacccgacttcagca	W08269
8791	tctgcacaactaaatcagggagaag	W51127	51395	ggattctctttgtcactggagtcca	AA035938	93999	tttgaatcacccgacttcagcaaga	W08269
8792	tgcacaactaaatcagggagaagcc	W51127	51396	attctctttgtcactggagtccacg	AA035938	94000	cccgacttcagcaagattactggca	W08269
8793	agaagccatcacaccagggctccga	W51127	51397	tttgtcactggagtccacgaagaag	AA035938	94001	gacttcagcaagattactggcaaac	W08269
8794	aagccatcacaccagggctccgaca	W51127	51398	gaaacccagggactgctgctgagaa	X80903	94002	cagctgcccttgacaggaagtatga	W08269
8795	gccatcacaccagggctccgacatg	W51127	51399	ggactgctgctgagaaccaggttca	X80903	94003	ctgcccttgacaggaagtatgagca	W08269
8796	ctattgacgctgtgtgagatatcat	W51132	51400	actatggacagttgctttgaagagt	X80903	94004	agtatgagcatcatcttcttcctgc	W08269
8797	gatatcatagctgtcttgtttccga	W51132	51401	ggaagcacgcactgcccacacgtct	X80903	94005	accgtgacccagaacttgaccatga	W08269
8798	gatacctgacataccagccgtatat	W51132	51402	tgcccacacgtctatcttggattac	X80903	94006	gtgacccagaacttgaccatgatag	W08269
8799	tacctgacataccagccgtatatcg	W51132	51403	ccacacgtctatcttggattactat	X80903	94007	ctcacctctgagttcattcatgaca	W08269
8800	acctgacataccagccgtatatcgc	W51132	51404	gtctatcttggattactatgagcca	X80903	94008	attcatgacatcgaccgagaactga	W08269
8801	ctgacataccagccgtatatcgcag	W51132	51405	ttactatgagccagtctttccttga	X80903	94009	ctgaagactatccaagctgtgctga	W08269
8802	tgacataccagccgtatatcgcaga	W51132	51406	ctatgagccagtctttccttgaact	X80903	94010	tgaggccatcgcagagcttgataca	AA120171
8803	ccgtatatcgcagactggatcaagg	W51132	51407	atatttttcatgatatctgtaaagc	X80903	94011	ggccatcgcagagcttgatacactg	AA120171
8804	cgtatatcgcagactggatcaagga	W51132	51408	tgtacaaaggcacttcgggtctatg	X80903	94012	ccctttagcatctcattccttaat	AA120171
8805	tatatcgcagactggatcaaggaga	W51132	51409	cttcgggtctatgtgactatatttt	X80903	94013	ttttagcatctcattccttaatccc	AA120171
8806	atatcgcagactggatcaaggagaa	W51132	51410	ctgctgctgagaaccaggttcaggc	X80903	94014	tagcatctcattccttaatcccact	AA120171
8807	atcgcagactggatcaaggagaaga	W51132	51411	agaaccaggttcaggcgaagctggt	X80903	94015	catctcattccttaatcccactgga	AA120171
8808	atatcatagctgtcttgtttccgag	W51132	51412	accaggttcaggcgaagctggttct	X80903	94016	ctcattccttaatcccactggagat	AA120171
8809	ttgtttccgagctgatacctgacat	W51132	51413	ttctctcagagttagcagaggcgcc	X80903	94017	attccttaatcccactggagattct	AA120171
8810	tgtttccgagctgatacctgacata	W51132	51414	ccgacactgccagcctaggctttgg	X80903	94018	ccttaatcccactggagattcttct	AA120171
8811	tttccgagctgatacctgacatacc	W51132	51415	acactgccagcctaggctttggctg	X80903	94019	taatcccactggagattcttctgga	AA120171
8812	ttccgagctgatacctgacatacca	W51132	51416	taggctttggctgccgctggactgc	X80903	94020	tcccactggagattcttctggaagg	AA120171
8813	ccgagctgatacctgacataccagc	W51132	51417	tcccattgcactatggacagttgct	X80903	94021	gaagcgacttctgtgtataggatca	AA120171
8814	agctgatacctgacataccagccgt	W51132	51418	cttagacagactcctttgattgtag	AA035915	94022	tacactgaacgaagactccttcaaa	AA120171
8815	gctgatacctgacataccagccgta	W51132	51419	agacagactcctttgattgtagtca	AA035915	94023	gaacgaagactccttcaaaagacag	AA120171
8816	agaatccgcgttgaagcacagagca	W51140	51420	aagagtgcgctcactattcagtttt	AA035915	94024	cgaagactccttcaaaagacagcac	AA120171
8817	gaatccgcgttgaagcacagagcat	W51140	51421	gcgctcactattcagtttttccaga	AA035915	94025	agactccttcaaaagacagcaccct	AA120171
8818	ttagctcctctgtcagaacgaatgg	W51140	51422	actattcagtttttccagaagatct	AA035915	94026	gcaccctcatcatgcagttgcttgg	AA120171
8819	aactgggacaccagagaagggagat	W51140	51423	aagatctttgtgcctgactacgacc	AA035915	94027	cttaaggccatccagggcacaaact	AA120171
8820	actgggacaccagagaagggagatg	W51140	51424	cccaccattgaagactcctacctga	AA035915	94028	gccatccagggcacaaacttccttc	AA120171
8821	agatgctattacccggatcaaagag	W51140	51425	attgaagactcctacctgaagcata	AA035915	94029	ttcaggaaaccctttagcatctca	AA120171
8822	agtacaacactgtaggaggcaagta	W51140	51426	gactcctacctgaagcatacagaga	AA035915	94030	caacccagaccagttcagaactctt	AA120174
8823	ggtggtacagaccttccaggaactg	W51140	51427	attgacaatcagtgggccatcttgg	AA035915	94031	cccagaccagttcagaactcttggt	AA120174
8824	tacagaccttccaggaactggtgtg	W51140	51428	aatcagtgggccatcttggatgttc	AA035915	94032	tgaacgtgctgttcgacaagttttt	AA120174
8825	acagaccttccaggaactggtgtga	W51140	51429	tgggccatcttggatgttctggaca	AA035915	94033	acgtgctgttcgacaagtttttcag	AA120174
8826	cagaccttccaggaactggtgtgaa	W51140	51430	cagactcctttgattgtagtcatcc	AA035915	94034	tcgacaagtttttcagcgagccaag	AA120174
8827	gaccttccaggaactggtgtgaaca	W51140	51431	ttgattgtagtcatcctggggttcc	AA035915	94035	agtttttcagcgagccaagaactca	AA120174
8828	aatccgcgttgaagcacagagcatt	W51140	51432	attgtagtcatcctggggttcctcg	AA035915	94036	ttttcagcgagccaagaactcagcc	AA120174
8829	cacagagcatttagctcctctgtca	W51140	51433	gtcatcctggggttcctcggctgcc	AA035915	94037	ggatgctttatgtcctcggagatca	AA120174
8830	acagagcatttagctcctctgtcag	W51140	51434	ccgggcctgactaccagaaacatgg	AA035915	94038	tgctttatgtcctcggagatcagac	AA120174
8831	agagcatttagctcctctgtcagaa	W51140	51435	ggcctgactaccagaaacatggcga	AA035915	94039	tttatgtcctcggagatcagaccga	AA120174
8832	gagcatttagctcctctgtcagaac	W51140	51436	accagaaacatggcgaccagcgctg	AA035915	94040	atgtcctcggagatcagaccgagaa	AA120174
8833	agcatttagctcctctgtcagaacg	W51140	51437	cttcccacatataaactagtagtgg	AA035915	94041	tcctcggagatcagaccgagaaaca	AA120174
8834	gcatttagctcctctgtcagaacga	W51140	51438	ctgctgagagtgcctgtggacacac	X77731	94042	tcttggtttggggactccagctggc	AA120174
8835	atttagctcctctgtcagaacgaat	W51140	51439	tgtggacacactgtccttcatagtt	X77731	94043	gactccagctggcatcctcctagct	AA120174
8836	cctccaagtgtactctttggttcat	L10075	51440	ccgtttctctagacagctttcatat	X77731	94044	aactctgctagcaaaggctgtggca	AA120174
8837	ctccaagtgtactctttggttcatg	L10075	51441	ttctctagacagctttcatatttag	X77731	94045	tctgctagcaaaggctgtggcaaat	AA120174
8838	tgttcatactgttgttcctcctata	L10075	51442	ctctagacagctttcatatttagtt	X77731	94046	ttttatatctgtcaaaggccctgaa	AA120174
8839	gttcatactgttgttcctcctatag	L10075	51443	acagctttcatatttagttgtaaag	X77731	94047	atctgtcaaaggccctgaattattg	AA120174
8840	ttcatactgttgttcctcctatagg	L10075	51444	gtagttgacctttctaattcatatt	X77731	94048	tgtcaaaggccctgaattattgaat	AA120174

TABLE 1

SEQ ID NO	sequence	DBAxnID
8841	tcatactgttgttcctcctataggg	L10075
8842	catactgttgttcctcctatagggt	L10075
8843	tactgttgttcctcctatagggttg	L10075
8844	ctgttgttcctcctatagggttgca	L10075
8845	tgttgttcctcctatagggttgcaa	L10075
8846	tccaagtgtactctttggttcatgg	L10075
8847	ccaagtgtactctttggttcatggt	L10075
8848	caagtgtactctttggttcatggtt	L10075
8849	gtgtactctttggttcatggtttag	L10075
8850	tcatggtttagttcctgggaaatct	L10075
8851	catggtttagttcctgggaaatctg	L10075
8852	agtgttcatactgttgttcctccta	L10075
8853	gtgttcatactgttgttcctcctat	L10075
8854	gacacagtctacatgggcaaagtga	W51014
8855	ctcggacagcgacaccgcctggtgc	W51014
8856	ggtcgtctcatctcctaagcactcc	W51014
8857	tttggtcccactgcccagtgcacgg	W51014
8858	cacatgctaacttcttgagtggttc	W51014
8859	atgctaacttcttgagtggttcact	W51014
8860	ctaacttcttgagtggttcactatc	W51014
8861	acttcttgagtggttcactatcgcc	W51014
8862	gttcactatcgcctggtctggtcag	W51014
8863	tatcgcctggtctggtcagggttct	W51014
8864	cgcctggtctggtcagggttctgct	W51014
8865	ctggtctggtcagggttctgctact	W51014
8866	gtgctgacccaggagcagctgcacc	W51014
8867	tggtctggtcagggttctgctactt	W51014
8868	ctgacccaggagcagctgcaccagc	W51014
8869	acccaggagcagctgcaccagcttc	W51014
8870	cagctgcaccagcttcacggtcgtc	W51014
8871	ctgcaccagcttcacggtcgtctca	W51014
8872	caccagcttcacggtcgtctcatct	W51014
8873	cagcttcacggtcgtctcatctcct	W51014
8874	cacggtcgtctcatctcctaagcac	W51014
8875	ctttcgcaggatcctgctaagacca	M91000
8876	caggatcctgctaagaccatcacgt	M91000
8877	gggctcgaacacccacatgcagtga	M91000
8878	gaacacccacatgcagtgatctgag	M91000
8879	atctgagcagcagcgagaatgacct	M91000
8880	atgaccttatgtacatggctgtcct	M91000
8881	acatggctgtcctggtcctctctgg	M91000
8882	gaccgctgtggtaccagggtccagt	M91000
8883	tgtggtaccagggtccagtgatgga	M91000
8884	accagggtccagtgatggaatgttt	M91000
8885	cttgaactctgtgccactgtgccag	M91000
8886	ctctgtgccactgtgccaggacttg	M91000
8887	cctgctaagaccatcacgtcgcatt	M91000
8888	gtcgggacctccagagaagactgaa	M91000
8889	cagtcagatcgcacaggctggcact	M91000
8890	gccacggccctgcacagggactgct	M91000
8891	gcagcagcttctgccccaggaggcc	M91000
8892	gcttctgccccaggaggccacagct	M91000
8893	cagcacactgagccatctgtaagga	M91000
8894	actgagccatctgtaaggaccttca	M91000
8895	aaacgctcccagacagatcaatctc	W50941
8896	acgctcccagacagatcaatctcag	W50941
8897	tggtgtcttgcacattggctgctct	W50941
8898	gtgtcttgcacattggctgctctgt	W50941
8899	tgtcttgcacattggctgctctgtg	W50941
8900	gcacattggctgctctgtgccattc	W50941
8901	ttggctgctctgtgccattcagttc	W50941
8902	tggctgctctgtgccattcagttcc	W50941
8903	gctgctctgtgccattcagttcccc	W50941
8904	ctgctctgtgccattcagttcccct	W50941
8905	tctctctgcagacagaacagcagaa	W50941
8906	tctctgcagacagaacagcagaagg	W50941
8907	ctcccagacagatcaatctcagcgc	W50941
8908	tcccagacagatcaatctcagcgcg	W50941
51445	agttgacctttctaattcatattag	X77731
51446	ttgacctttctaattcatattagga	X77731
51447	gtaataaccatagcttgttttgtga	X77731
51448	taaccatagcttgttttgtgatatt	X77731
51449	accatagcttgttttgtgatattgg	X77731
51450	tggacacactgtccttcatagtttg	X77731
51451	gacacactgtccttcatagtttgct	X77731
51452	cacactgtccttcatagtttgcttg	X77731
51453	ccttcatagtttgcttgctttgtag	X77731
51454	ttcatagtttgcttgctttgtagaa	X77731
51455	ttaataatgcccgtttctctagaca	X77731
51456	taatgcccgtttctctagacagctt	X77731
51457	atgcccgtttctctagacagctttc	X77731
51458	gtttgcttccaagccagcagcaaga	AA035984
51459	tgcttccaagccagcagcaagaaaa	AA035984
51460	tcctgaaaagctggcccagaagaat	AA035984
51461	aaagctggcccagaagaatccaatg	AA035984
51462	gagagaaacaccacctcgttttgct	AA035984
51463	aacaccacctcgttttgctcagcat	AA035984
51464	acctcgttttgctcagcatggcaca	AA035984
51465	tcgttttgctcagcatggcacattt	AA035984
51466	ttttgctcagcatggcacatttgag	AA035984
51467	tcagcatggcacatttgagtatgaa	AA035984
51468	atattctcaacgatggaagtccttg	AA035984
51469	ttctcaacgatggaagtccttggat	AA035984
51470	ttccaagccagcagcaagaaaagca	AA035984
51471	tgttttcctactgacaacgactcct	AA035984
51472	tttcctactgacaacgactcctcgc	AA035984
51473	tcgcccagtcattgtggaaccactt	AA035984
51474	tgtggaaccacttgaacagttagat	AA035984
51475	ggaaccacttgaacagttagatgac	AA035984
51476	tggtcttcctgaaaagctggcccag	AA035984
51477	tcttcctgaaaagctggcccagaag	AA035984
51478	cccagagctcagactgggagtgtgc	AA036037
51479	ctcagactgggagtgtgcaggagct	AA036037
51480	tctggcctaggagactcgatggcgc	AA036037
51481	ctggcctaggagactcgatggcgca	AA036037
51482	agtgctcggcctgagatgagacggt	AA036037
51483	tgctcggcctgagatgagacggtgt	AA036037
51484	ctcggcctgagatgagacggtgtgc	AA036037
51485	agcagccagccgtctgcgtgatcag	AA036037
51486	cagccagccgtctgcgtgatcagga	AA036037
51487	agccagccgtctgcgtgatcaggag	AA036037
51488	ctgatccctctggcctaggagactc	AA036037
51489	tgatccctctggcctaggagactcg	AA036037
51490	gatccctctggcctaggagactcga	AA036037
51491	atccctctggcctaggagactcgat	AA036037
51492	tccctctggcctaggagactcgatg	AA036037
51493	ccctctggcctaggagactcgatgg	AA036037
51494	cctctggcctaggagactcgatggc	AA036037
51495	ctctggcctaggagactcgatggcg	AA036037
51496	gctgctttccgggaaatgccacggt	X76292
51497	aactacatcgtggtgactgggtact	X76292
51498	cgctgctggtcaacgacgtcctcgc	X76292
51499	tgctggtcaacgacgtcctcgcctc	X76292
51500	cctcctgctacgcggttctagagag	X76292
51501	cctgctacgcggttctagagagtca	X76292
51502	gctacgcggttctagagagtcacca	X76292
51503	ttctagagagtcaccagtgggccca	X76292
51504	cagtccagccgactggcatgcattg	X76292
51505	tccagccgactggcatgcattggta	X76292
51506	cgactggcatgcattggtactctcg	X76292
51507	gcatgcattggtactctcgcctcct	X76292
51508	actgggtactggccgctgatgcagc	X76292
51509	cgcgcaaactgttgctcacaccctg	X76292
51510	gcaaactgttgctcacaccctggca	X76292
51511	tgttgctcacaccctggcatctggt	X76292
51512	tcacaccctggcatctggtgttcgc	X76292
94049	caaaggccctgaattattgaatatg	AA120174
94050	ctttcaacaaatctctctatgaggg	U12236
94051	tcactgtcatcttcctgaaagagga	U12236
94052	atcaacaactgaacttggagagcac	U12236
94053	acagtctgctccaagattagccccc	U12236
94054	ttactctccttaggacgatcaagca	U12236
94055	gttcatagccacacactatgcccac	U12236
94056	acactatgcccacagtgtcttgtga	U12236
94057	tgcccacagtgtcttgtgaattgag	U12236
94058	ttttacagcagtgcctttaatgagc	U12236
94059	cacggttcccagtttgccatgcgtt	U12236
94060	tcccagtttgccatgcgttttgatg	U12236
94061	tttgccatgcgttttgatgactgat	U12236
94062	tcatcttcctgaaagaggaggagac	U12236
94063	cacgctctttgcctctcatcattgg	U12236
94064	ctttgcctctcatcattggcagcag	U12236
94065	ctctcatcattggcagcagcatcgg	U12236
94066	tcattggcagcagcatcggaggcct	U12236
94067	gaggcctcctggtcttggttgtgat	U12236
94068	tcctggtcttggttgtgattatagc	U12236
94069	ttatagccattttgttcaagtgtgg	U12236
94070	cccttcaaatgtgatcaatgtgata	AA120187
94071	taaagctttgacacaacactctact	AA120187
94072	acactctactcttcagactcataga	AA120187
94073	cactctactcttcagactcatagaa	AA120187
94074	actctactcttcagactcatagaag	AA120187
94075	ctctactcttcagactcatagaaga	AA120187
94076	tctactcttcagactcatagaagaa	AA120187
94077	ctactcttcagactcatagaagaac	AA120187
94078	tactcttcagactcatagaagaaca	AA120187
94079	actcttcagactcatagaagaacac	AA120187
94080	ctcttcagactcatagaagaacaca	AA120187
94081	tcttcagactcatagaagaacacat	AA120187
94082	aaagctttgacacaacactctactc	AA120187
94083	aagctttgacacaacactctactct	AA120187
94084	agctttgacacaacactctactctt	AA120187
94085	gacacaacactctactcttcagact	AA120187
94086	cacaacactctactcttcagactca	AA120187
94087	acaacactctactcttcagactcat	AA120187
94088	caacactctactcttcagactcata	AA120187
94089	aacactctactcttcagactcatag	AA120187
94090	cgtaatggttgctgctagtgttggt	AA120203
94091	tgaagctggcatctccagaacaggt	AA120203
94092	acctatacaatcacaagagatacga	AA120203
94093	ctatacaatcacaagagatacgagt	AA120203
94094	aggagctcattacctagatgtagaa	AA120203
94095	gctcattacctagatgtagaagatt	AA120203
94096	tcattacctagatgtagaagattgg	AA120203
94097	tggctacaacgtctgacacagtaga	AA120203
94098	gctacaacgtctgacacagtagaat	AA120203
94099	caacgtctgacacagtagaataggt	AA120203
94100	acgtctgacacagtagaataggtgc	AA120203
94101	caaatttctcgtaggaatggtgaca	AA120203
94102	aagctggcatctccagaacaggtag	AA120203
94103	gctggcatctccagaacaggtagac	AA120203
94104	tggcatctccagaacaggtagaccc	AA120203
94105	atctccagaacaggtagacccgcga	AA120203
94106	aatggattcgacctatccacctata	AA120203
94107	tggattcgacctatccacctataca	AA120203
94108	gattcgacctatccacctatacaat	AA120203
94109	atccacctatacaatcacaagagat	AA120203
94110	ggcaattgtaccctgtagagaacgg	AA120216
94111	tgtaccctgtagagaacggccatcg	AA120216
94112	tgtccaggcagcggttcgaactgga	AA120216
94113	caggcagcggttcgaactggagaca	AA120216
94114	aagtctcaaaggtttcagcgtgatc	AA120216
94115	gtctcaaaggtttcagcgtgatcgg	AA120216
94116	aaggtttcagcgtgatcggcacttg	AA120216

TABLE 1

SEQ ID NO	sequence	DBAxnID
8909	cagacagatcaatctcagcgcgggt	W50941
8910	gatcaatctcagcgcgggtaaccttt	W50941
8911	tcaatctcagcgcgggtaaccttat	W50941
8912	tgagctaatcaaggacctgggaaaa	W50941
8913	ttctcgtggtgtcttgcacattggc	W50941
8914	tcgtggtgtcttgcacattggctgc	W50941
8915	gaaacggcctggtcgatattggtga	W51146
8916	aacggcctggtcgatattggtgatc	W51146
8917	cgctgattgagtcttcatggtcagt	W51146
8918	ttgagtcttcatggtcagtttggca	W51146
8919	gagtcttcatggtcagtttggcatt	W51146
8920	gtcttcatggtcagtttggcatttt	W51146
8921	cttcatggtcagtttggcattttgt	W51146
8922	tcagtttggcattttgtggcctctg	W51146
8923	agtttggcattttgtggcctctggg	W51146
8924	tggcattttgtggcctctggggctt	W51146
8925	gcattttgtggcctctggggcttgc	W51146
8926	ggcttgcctgcggcaatgggcgttt	W51146
8927	cggcctggtcgatattggtgatcct	W51146
8928	tattggtgatcctaagccattgcca	W51146
8929	ggtgatcctaagccattgccaaaat	W51146
8930	tgatcctaagccattgccaaaatga	W51146
8931	atcctaagccattgccaaaatgaag	W51146
8932	cctaagccattgccaaaatgaagac	W51146
8933	gtcaacctggccgtcgctgattgag	W51146
8934	caacctggccgtcgctgattgagtc	W51146
8935	ttgaatggttcctccaaggaaatgt	L27121
8936	ttctattcggatcatggtttgagca	L27121
8937	ctaatggcttgaagctcatgagaaa	L27121
8938	gtacaactggggactggaagaatca	L27121
8939	agaatcacttcacagtagcccaagc	L27121
8940	atcacttcacagtagcccaagctga	L27121
8941	tcacagtagcccaagctgaagcctt	L27121
8942	cagtagcccaagctgaagccttcga	L27121
8943	tagcccaagctgaagccttcgataa	L27121
8944	cccaagctgaagccttcgataaagt	L27121
8945	ttctatatcttgaatacctgaatat	L27121
8946	atcttgaatacctgaatatggtcat	L27121
8947	tattcggatcatggtttgagcatgt	L27121
8948	acttcttggtactatactatgaaga	L27121
8949	agaagatctgtgacttcctagggaa	L27121
8950	atttagggccagatgagctggatct	L27121
8951	tcgtcctcaagtacagctccttcca	L27121
8952	tcctcaagtacagctccttccaagc	L27121
8953	tcaagtacagctccttccaagccat	L27121
8954	acaacatgtccaattatagtctcat	L27121
8955	cctttgctacgtgtggcagctatca	W51175
8956	ttgctacgtgtggcagctatcaccg	W51175
8957	caccaagtgtactttcgatgcaccc	W51175
8958	agtgtactttcgatgcacccgtcct	W51175
8959	gtgtactttcgatgcacccgtcctg	W51175
8960	tgtactttcgatgcacccgtcctgc	W51175
8961	gtactttcgatgcacccgtcctgct	W51175
8962	tactttcgatgcacccgtcctgctg	W51175
8963	actttcgatgcacccgtcctgctgt	W51175
8964	tcctgctgtcaaacgggggcactac	W51175
8965	ctgctgtcaaacgggggcactacca	W51175
8966	tcaaacgggggcactaccaagatct	W51175
8967	ctatcaccggggagcttcggctgag	W51175
8968	tatcaccggggagcttcggctgagc	W51175
8969	agtgtgccaacaagactggagagtg	W51175
8970	gtgtgccaacaagactggagagtgc	W51175
8971	tgtgccaacaagactggagagtgcc	W51175
8972	aggctgcaccaagtgtactttcgat	W51175
8973	ggctgcaccaagtgtactttcgatg	W51175
8974	gcaccaagtgtactttcgatgcacc	W51175
8975	tgagattctcccatctggtgaacga	W51181
8976	gattctcccatctggtgaacgaccg	W51181
8977	attctcccatctggtgaacgaccgg	W51181
8978	ttctcccatctggtgaacgaccggg	W51181
8979	tctcccatctggtgaacgaccgggt	W51181
8980	ctcccatctggtgaacgaccgggtt	W51181
8981	tcccatctggtgaacgaccgggttt	W51181
8982	cccatctggtgaacgaccgggtttt	W51181
8983	ccatctggtgaacgaccgggttttt	W51181
8984	catctggtgaacgaccgggttttta	W51181
8985	atctggtgaacgaccgggtttttaa	W51181
8986	tctggtgaacgaccgggtttttaaa	W51181
8987	ctggtgaacgaccgggtttttaaaa	W51181
8988	tggtgaacgaccgggtttttaaaaa	W51181
8989	ggtgaacgaccgggtttttaaaaaa	W51181
8990	gtgaacgaccgggtttttaaaaaaa	W51181
8991	tgaacgaccgggtttttaaaaaaaa	W51181
8992	gaacgaccgggtttttaaaaaaaaa	W51181
8993	aacgaccgggtttttaaaaaaaaaa	W51181
8994	acgaccgggtttttaaaaaaaaaaa	W51181
8995	cgaccgggtttttaaaaaaaaaaaa	W51181
8996	gaccgggtttttaaaaaaaaaaaaa	W51181
8997	accgggtttttaaaaaaaaaaaaaa	W51181
8998	ccgggtttttaaaaaaaaaaaaaaa	W51181
8999	cgggtttttaaaaaaaaaaaaaaaa	W51181
9000	gggtttttaaaaaaaaaaaaaaaaa	W51181
9001	ggtttttaaaaaaaaaaaaaaaaaa	W51181
9002	gtttttaaaaaaaaaaaaaaaaaaa	W51181
9003	tttttaaaaaaaaaaaaaaaaaaaa	W51181
9004	ttttaaaaaaaaaaaaaaaaaaaaa	W51181
9005	tttaaaaaaaaaaaaaaaaaaaaaa	W51181
9006	ttaaaaaaaaaaaaaaaaaaaaaaa	W51181
9007	taaaaaaaaaaaaaaaaaaaaaaaa	W51181
9008	aaaaaaaaaaaaaaaaaaaaaaaaa	W51181

SEQ ID NO:	sequence	DBAxnID
51513	ctccaggtgactttgcaccggtgtt	X76292
51514	tacgtgctggcgactcggtgctggc	X76292
51515	gtgctggcgactcggtgctggctcc	X76292
51516	caggacacgctgagggacagctaaa	AA036050
51517	aggacacgctgagggacagctaaaa	AA036050
51518	ctctcctgtcactgctgctgctgct	AA036050
51519	ggtgtgccaatatcacctcaaagat	AA036050
51520	gtgtgccaatatcacctcaaagatt	AA036050
51521	tgtgccaatatcacctcaaagattg	AA036050
51522	gtgccaatatcacctcaaagattgc	AA036050
51523	tgccaatatcacctcaaagattgca	AA036050
51524	acacgctgagggacagctaaaacac	AA036050
51525	tgtccgcaggcaagttggctgctgc	AA036050
51526	gtccgcaggcaagttggctgctgca	AA036050
51527	tccgcaggcaagttggctgctgcaa	AA036050
51528	cgcaggcaagttggctgctgcaacc	AA036050
51529	caagttggctgctgcaaccgcatct	AA036050
51530	agttggctgctgcaaccgcatctcc	AA036050
51531	tcctctcctgtcactgctgctgctg	AA036050
51532	attcggatccatgaactgcttgagt	
51533	ttcggatccatgaactgcttgagtg	
51534	tctccctcactcttaggctgaattt	
51535	ccctcactcttaggctgaatttgac	
51536	cctcactcttaggctgaatttgaca	
51537	ctcactcttaggctgaatttgacaa	
51538	cactcttaggctgaatttgacaaag	
51539	tcggatccatgaactgcttgagtgg	
51540	cggatccatgaactgcttgagtgga	
51541	ggatccatgaactgcttgagtggac	
51542	gatccatgaactgcttgagtggaca	
51543	atccatgaactgcttgagtggacag	
51544	tccatgaactgcttgagtggacagg	
51545	ccatgaactgcttgagtggacaggt	
51546	agtatgggaggcatccctgggcctc	
51547	ttcggatccatgaactgcttgagtg	
51548	tcggatccatgaactgcttgagtgg	
51549	cccactcaggcaacctacatcccgt	
51550	ccactcaggcaacctacatcccgtt	
51551	cactcaggcaacctacatcccgttc	
51552	tcaggcaacctacatcccgttcctc	
51553	caggcaacctacatcccgttcctct	
51554	tctccctcactcttaggctgaattt	
51555	ccctcactcttaggctgaatttgac	
51556	cctcactcttaggctgaatttgaca	
51557	ctcactcttaggctgaatttgacaa	
51558	cactcttaggctgaatttgacaaag	
51559	cggatccatgaactgcttgagtgga	
51560	ggatccatgaactgcttgagtggac	
51561	gatccatgaactgcttgagtggaca	
51562	atccatgaactgcttgagtggacag	
51563	tccatgaactgcttgagtggacagg	
51564	ccatgaactgcttgagtggacaggt	
51565	tgcttgagtggacaggtgggccgtt	
51566	agtatgggaggcatccctgggcctc	
51567	ctgattcttgccatgcatatattca	X57377
51568	attcttgccatgcatatattcaacc	X57377
51569	taaatgttctcagataccactggat	X57377
51570	atgttctcagataccactggatact	X57377
51571	ttctcagataccactggatacttta	X57377
51572	tcagataccactggatactttaaaa	X57377
51573	tcctttgggttttgcaagagcaaat	X57377
51574	agcaaattcttagctttcattcctc	X57377
51575	aaattcttagctttcattcctctgg	X57377
51576	ttcattcctctggttcttaattaca	X57377
51577	gttcttaattacaatcatcaatttg	X57377
51578	aattacaatcatcaatttgtatagt	X57377
51579	atgcatatattcaaccttgacaagt	X57377
51580	catatattcaaccttgacaagtttt	X57377
51581	atattcaaccttgacaagttttt	X57377
51582	tattcaaccttgacaagttttta	X57377
51583	attcaaccttgacaagttttta	X57377
51584	ttcaaccttgacaagttttta	X57377
51585	tcaaccttgacaagttttta	X57377
51586	caaccttgacaagttttta	X57377
51587	aaccttgacaagttttta	X57377
51588	accttgacaagttttta	X57377
51589	ccttgacaagttttta	X57377
51590	cttgacaagttttta	X57377
51591	ttgacaagttttta	X57377
51592	tgacaagttttta	X57377
51593	gacaagttttta	X57377
51594	acaagttttta	X57377
51595	caagttttta	X57377
51596	aagttttta	X57377
51597	agttttta	X57377
51598	gttttta	X57377
51599	ttttta	X57377
51600	tttta	X57377
51601	ttta	X57377
51602	tta	X57377
51603	ta	X57377

SEQ ID NO:	sequence	DBAxnID
94117	tttcagcgtgatcggcacttggttg	AA120216
94118	tcagcgtgatcggcacttggttgtc	AA120216
94119	cgtgatcggcacttggttgtcaatc	AA120216
94120	tgatcggcacttggttgtcaatcct	AA120216
94121	caatcctattgcgcatgggactgga	AA120216
94122	taccctgtagagaacggccatcgag	AA120216
94123	cctattgcgcatgggactggaactg	AA120216
94124	agaacggccatcgagagatcaagct	AA120216
94125	aacggccatcgagagatcaagctgg	AA120216
94126	aaacttgtgtatcactgcttcaata	AA120216
94127	acttgtgtatcactgcttcaataga	AA120216
94128	gtgtatcactgcttcaatagacaag	AA120216
94129	gtatcactgcttcaatagacaagag	AA120216
94130	gctgtccaggcagcggttcgaactg	AA120216
94131	agcatatgtgccaatttctgcgttg	AA120368
94132	tatgtgccaatttctgcgttggaat	AA120368
94133	atagaccacagctgctggaagctct	AA120368
94134	cacagctgctggaagctctggatag	AA120368
94135	cagctgctggaagctctggatagta	AA120368
94136	taccacgaactcgtccacactgaca	AA120368
94137	acgaactcgtccacactgacaacac	AA120368
94138	gtccacactgacaacaccttcgaa	AA120368
94139	ccacactgacaacaccttcgaatg	AA120368
94140	acactgacaacaccttcgaatgcc	AA120368
94141	gaggcattgcacattgccgttggcc	AA120368
94142	ggcattgcacattgccgttggcctg	AA120368
94143	tttctgcgttggaatggtgacatac	AA120368
94144	catacatgctagagccaagtgctaa	AA120368
94145	gatggaacgtcaccgcaaagatcgt	AA120368
94146	tggaacgtcaccgcaaagatcgtag	AA120368
94147	gaacgtcaccgcaaagatcgtagct	AA120368
94148	gtcaccgcaaagatcgtagctgcaa	AA120368
94149	tgcaatagaccacagctgctggaag	AA120368
94150	caatagaccacagctgctggaagct	AA120368
94151	cgctgcgtacaccgtgacctggctg	L33768
94152	gcgcgcaacatcttggtggagagcg	L33768
94153	aagagctgcagcccatccgctgagt	L33768
94154	tgcagcccatccgctgagttcctgc	L33768
94155	gctgagttcctgcgcatgatggggc	L33768
94156	ttcctgcgcatgatggggcctgagc	L33768
94157	ctcctggagctgctggcagagggcc	L33768
94158	gagctcatgcagctgtgcgtggcgc	L33768
94159	gaccccggatagcagccaggggcga	L33768
94160	agctgctgcagtggctagagcagag	L33768
94161	agcagagacatctcctgcacgcgct	L33768
94162	gacatctcctgcacgcgctggtggc	L33768
94163	aagatcgcggacttcggcctcgcta	L33768
94164	acatctcctgcacgcgctggtggcc	L33768
94165	gcggacttcggcctcgctaagctgc	L33768
94166	ctcgctaagctgctgcccctgggaa	L33768
94167	aagctgctgcccctgggaaaggact	L33768
94168	tatgccccggagtccctatctgaca	L33768
94169	cgccaatctgacgtgtggagcttcg	L33768
94170	agcttcggagtggtgttgtacgagc	L33768
94171	acctactgcgacaagagctgcagcc	L33768
94172	ttcggatccatgcagaattttccag	AA123267
94173	tccatgcagaattttccagttccag	AA123267
94174	ctggctgggactcctgagaattgca	AA123267
94175	aattgcagcttcaacattcggactt	AA123267
94176	tgcagcttcaacattcggacttttg	AA123267
94177	ttcaatgctaacctctccgtaaact	AA123267
94178	attctgagtcgccaagacatcgccg	AA123267
94179	ctgagtcgccaagacatcgccggta	AA123267
94180	cgccaagacatcgccggtaatccag	AA123267
94181	caagacatcgccggtaatccagagg	AA123267
94182	gacatcgccggtaatccagaggtca	AA123267
94183	atcgccggtaatccagaggtcagag	AA123267
94184	cagaattttccagttccagtgcaga	AA123267
94185	agaattttccagttccagtgcagaa	AA123267
94186	gaattttccagttccagtgcagaaa	AA123267
94187	aattttccagttccagtgcagaaaa	AA123267
94188	attttccagttccagtgcagaaaaa	AA123267
94189	ttttccagttccagtgcagaaaaaa	AA123267
94190	tttccagttccagtgcagaaaaaaa	AA123267
94191	ttccagttccagtgcagaaaaaaaa	AA123267
94192	tccagttccagtgcagaaaaaaaaa	AA123267
94193	ccagttccagtgcagaaaaaaaaaa	AA123267
94194	cagttccagtgcagaaaaaaaaaaa	AA123267
94195	agttccagtgcagaaaaaaaaaaaa	AA123267
94196	gttccagtgcagaaaaaaaaaaaaa	AA123267
94197	ttccagtgcagaaaaaaaaaaaaaa	AA123267
94198	tccagtgcagaaaaaaaaaaaaaaa	AA123267
94199	ccagtgcagaaaaaaaaaaaaaaaa	AA123267
94200	cagtgcagaaaaaaaaaaaaaaaaa	AA123267
94201	agtgcagaaaaaaaaaaaaaaaaaa	AA123267
94202	gtgcagaaaaaaaaaaaaaaaaaaa	AA123267
94203	tgcagaaaaaaaaaaaaaaaaaaaa	AA123267
94204	gcagaaaaaaaaaaaaaaaaaaaaa	AA123267
94205	cagaaaaaaaaaaaaaaaaaaaaaa	AA123267
94206	agaaaaaaaaaaaaaaaaaaaaaaa	AA123267
94207	gaaaaaaaaaaaaaaaaaaaaaaaa	AA123267

TABLE 1

SEQ ID NO	sequence	DBAxnID
8977	aaccagaagcgtatcaccactccat	W51181
8978	cagaagcgtatcaccactccataca	W51181
8979	aagcgtatcaccactccatacatga	W51181
8980	accaagtacgagcgagcccgagtgc	W51181
8981	tacgagcgagcccgagtgctgggca	W51181
8982	ctgggcaccgggctctccagattgc	W51181
8983	ggcaccgggctctccagattgcgat	W51181
8984	agattgcgatgtgtgccccagtaat	W51181
8985	ttgcgatgtgtgccccagtaatggt	W51181
8986	cgatgtgtgccccagtaatggtgga	W51181
8987	tctcccatctggtgaacgaccgcag	W51181
8988	cccatctggtgaacgaccgcagcca	W51181
8989	tggtgaacgaccgcagccaaccaga	W51181
8990	tgaacgaccgcagccaaccagaagc	W51181
8991	acgaccgcagccaaccagaagcgta	W51181
8992	accgcagccaaccagaagcgtatca	W51181
8993	gcagccaaccagaagcgtatcacca	W51181
8994	gccaaccagaagcgtatcaccactc	W51181
8995	tcggcatctcacgacctccttaaga	W51322
8996	tctcacgacctccttaagatgagtg	W51322
8997	aagtacctggagcacctctctgggg	W51322
8998	gtacctggagcacctctctggggat	W51322
8999	gatggcaaagccatcggtgtcctga	W51322
9000	gcaaagccatcggtgtcctgaccag	W51322
9001	aaagccatcggtgtcctgaccagcg	W51322
9002	agccatcggtgtcctgaccagcggc	W51322
9003	gtgctgtggtgcgcatgggaatata	W51322
9004	gctgtggtgcgcatgggaatataca	W51322
9005	tggaggctccaatattgtggaagcc	W51322
9006	tgtctcagcattctacaagtgggtg	W51322
9007	tcacgacctccttaagatgagtgac	W51322
9008	acgacctccttaagatgagtgacca	W51322
9009	gagtgaccaggactcttcgacgtcc	W51322
9010	gtgaccaggactcttcgacgtccag	W51322
9011	gaccaggactcttcgacgtccagca	W51322
9012	aggactcttcgacgtccagcacctc	W51322
9013	tttccgaagtacctggagcacctct	W51322
9014	cgaagtacctggagcacctctctgg	W51322
9015	aacttatcaccatgaaacccactgc	M23501
9016	tcaccatgaaacccactgccatggc	M23501
9017	gggtccctggtctcacagaagcaga	M23501
9018	ctggtctcacagaagcagagaagac	M23501
9019	ctgttacagattccagtgagtgacc	M23501
9020	caaggtccttgtccgtgtcttctgt	M23501
9021	ccttgtccgtgtcttctgttcacag	M23501
9022	ttcacagattcaggctgaacaaagg	M23501
9023	catcccagcaccagagactgcagtt	M23501
9024	agcaccagagactgcagtttccctc	M23501
9025	ctactgctgcaggctcacagacctc	M23501
9026	agacctcagtcatgtgataagctat	M23501
9027	tgaaacccactgccatggcactgat	M23501
9028	cactgatgtgcctgctgctggctgc	M23501
9029	gcatgcttacggtctccaatagctg	M23501
9030	ttacggtctccaatagctgctgctt	M23501
9031	tctccaatagctgctgcttgaacac	M23501
9032	atagctgctgcttgaacaccttgaa	M23501
9033	agcttcccctgaagtttatccagtg	M23501
9034	agtttatccagtgttacagaaagat	M23501
9035	tgcttccagatagtctccactgtac	U00445
9036	cagatagtctccactgtacataaaa	U00445
9037	cctatgtctgcattccccagaattc	U00445
9038	tctgcattccccagaattctccact	U00445
9039	cctgctgctggaccctgctgtgtct	U00445
9040	aggattcttctctccaaaggtcact	U00445
9041	tccaaaggtcactccgatgttattt	U00445
9042	tttgattcctggggcagaaatatga	U00445
9043	agcccaagccagccaagagctctca	U00445
9044	agccagccaagagctctcattctta	U00445
51581	tagtttcagtcactatctggaaagg	X57377
51582	tttcagtcactatctggaaaggact	X57377
51583	gtgttgcaacctctataaatgttct	X57377
51584	ttgcaacctctataaatgttctcag	X57377
51585	caacctctataaatgttctcagata	X57377
51586	cctctataaatgttctcagatacca	X57377
51587	atgacgcctccaacgagtaccagct	AA036041
51588	agtaccagctcattgagtgcgacga	AA036041
51589	cccagtctcagctggccacacgtaa	AA036041
51590	agtctcagctggccacacgtaacttt	AA036041
51591	ccacacgtaacttccacatgttcga	AA036041
51592	acatgttcgatgtcccgcggcagcg	AA036041
51593	gcgatcgacgcgcacagtggatcga	AA036041
51594	catcatcttcgccgtgccagcagta	AA036041
51595	cgtgccagcagtagctaccagatgg	AA036041
51596	gccagcagtagctaccagatggcca	AA036041
51597	agtagctaccagatggccattcgcg	AA036041
51598	taccagatggccattcgcgacgacc	AA036041
51599	agctcattgagtgcgacgactactc	AA036041
51600	atggccattcgcgacgaccaacaga	AA036041
51601	ttgagtgcgacgactactcactgga	AA036041
51602	acgactactcactggacaacattga	AA036041
51603	actactcactggacaacattgacgc	AA036041
51604	cactggacaacattgacgcgatcca	AA036041
51605	acaacattgacgcgatccagcacgc	AA036041
51606	acgcgatccagcacgccgactacgt	AA036041
51607	ttgagacccagtctcagctggccac	AA036041
51608	gttcctgcagagctggtagccaccg	Z38015
51609	gctgctgcagcagctgggcattcgc	Z38015
51610	ccattcccatagtgatggatcagca	Z38015
51611	atcagcaagacctctgccagcacac	Z38015
51612	tctgccagcacacacggagtctttg	Z38015
51613	agcacacacggagtctttggcttcg	Z38015
51614	cacggagtctttggcttcggacagc	Z38015
51615	gtacacgtctgcactctaacaacgg	Z38015
51616	gtctgcactctaacaacggagccac	Z38015
51617	tgttatctgactcactgacagactc	Z38015
51618	cccacgttttagatgcattgagact	Z38015
51619	tgagactcgacattcctcggtattt	Z38015
51620	cattcgccgaccttgctttactcag	Z38015
51621	tactcagccctgacgtggatgggct	Z38015
51622	gccctgacgtggatgggctaactgc	Z38015
51623	taactgctcagctcatccgatttca	Z38015
51624	gatttcacttttcactctcccagc	Z38015
51625	tcccagccatcagttacaagccata	Z38015
51626	gttacaagccataagcatgagcccc	Z38015
51627	tccagggacatcccattcccatagt	Z38015
51628	tactattctgctgtgctacaagaca	X73230
51629	ccaagtccgatgccaccttaccaga	X73230
51630	ccctgctagatcccaggaaggacca	X73230
51631	tagatcccaggaaggaccatcagca	X73230
51632	aggaccatcagcagcttctgagact	X73230
51633	atcagcagcttctgagactgcctca	X73230
51634	agcttctgagactgcctcatggggc	X73230
51635	tgagactgcctcatggggctcactt	X73230
51636	atggggctcacttgtctctcaagct	X73230
51637	tcaagctctgaatttctcctttgtg	X73230
51638	tctgaatttctcctttgtgcatact	X73230
51639	ctttgtgcatacttcaagtaatttt	X73230
51640	ccgatgccacccttaccagaaagagc	X73230
51641	ccaccttaccagaaagagcttgagc	X73230
51642	tgttccatggacacaccgctgaagc	X73230
51643	atggacacaccgctgaagcaagaca	X73230
51644	acaccgctgaagcaagacatgtccc	X73230
51645	caagacatgtcccttcacagaaacc	X73230
51646	gccctggaactggtcagcttggttc	X73230
51647	tgataaactgatcattccgggtaga	X73230
51648	cagtgccattcctagcctcccttg	U08439
94185	aattttccagttccagtgcagactc	AA123267
94186	ccagttccagtgcagactcaggggg	AA123267
94187	gtgcagactcagggggctcatcata	AA123267
94188	cgtctcagattggctttcaggatgc	AA123267
94189	ctcagattggctttcaggatgcggt	AA123267
94190	agattggctttcaggatgcggtaca	AA123267
94191	cagctggctgggactcctgagaatt	AA123267
94192	cccaccaatggaaacagctaggatc	AA122942
94193	aacagctaggatcactgctcaagtg	AA122942
94194	tatggtacctggcaacgccagtgtg	AA122942
94195	atggtacctggcaacgccagtgtgt	AA122942
94196	tggtacctggcaacgccagtgtgtc	AA122942
94197	tacctggcaacgccagtgtgtcgag	AA122942
94198	acctggcaacgccagtgtgtcgaga	AA122942
94199	cctggcaacgccagtgtgtcgagag	AA122942
94200	tggcaacgccagtgtgtcgagagct	AA122942
94201	ggcaacgccagtgtgtcgagagctt	AA122942
94202	gcaacgccagtgtgtcgagagcttc	AA122942
94203	caacgccagtgtgtcgagagcttct	AA122942
94204	acagctaggatcactgctcaagtga	AA122942
94205	aacgccagtgtgtcgagagcttctc	AA122942
94206	cagctaggatcactgctcaagtgat	AA122942
94207	agctaggatcactgctcaagtgatt	AA122942
94208	gaacgacacacagcccacatagcaa	AA122942
94209	aacgacacacagcccacatagcaag	AA122942
94210	agcaagtctgctgagcttaaagcag	AA122942
94211	tgatatggtacctggcaacgccagt	AA122942
94212	atatggtacctggcaacgccagtgt	AA122942
94213	ggcctgcagctgctggatgctctgg	W08326
94214	gttcacgggaacctgacagctgaga	W08326
94215	cacgtggcctacaaagaaggcagca	W08326
94216	aggagtccacacgatggggacttgg	W08326
94217	agtccacacgatggggacttggagt	W08326
94218	ccacacgatggggacttggagttca	W08326
94219	ggacctgcacaagggatgcggacct	W08326
94220	cgccgcagcgatctccagaccttgg	W08326
94221	cgcagcgatctccagaccttgggct	W08326
94222	gatctccagaccttgggctactgta	W08326
94223	ctccagaccttgggctactgtatgc	W08326
94224	cagaccttgggctactgtatgctca	W08326
94225	cacgggaacctgacagctgagaatg	W08326
94226	aatgtctttgtgaatccagaggatc	W08326
94227	caggtgaccctggtgggctatggct	W08326
94228	tatggcttcacctaccgatactgcc	W08326
94229	ttcacctaccgatactgcccaggtg	W08326
94230	taccgatactgcccaggtggcaaac	W08326
94231	cgatactgcccaggtggcaaacacg	W08326
94232	tactgcccaggtggcaaacacgtgg	W08326
94233	gagcgcagacaccctctggggaatc	Y00309
94234	acttcactgtccaggctgcagcagg	Y00309
94235	ctgcaccaaacagcctaggccgacg	Y00309
94236	aagtcgtataacctggctccagtgt	Y00309
94237	ctggctccagtgtgtacgtccatga	Y00309
94238	ccagtgtgtacgtccatgatgcata	Y00309
94239	tgtacgtccatgatgcatatcttgt	Y00309
94240	tccatgatgcatatcttgtgcataa	Y00309
94241	attatatgtgtctgtagtgtgcatt	Y00309
94242	tgtgtctgtagtgtgcattgcaata	Y00309
94243	tgatggaaccaaccacccaagtgtc	Y00309
94244	ccacccaagtgtcatgccaaataaa	Y00309
94245	ctgtccaggctgcagcagggcttct	Y00309
94246	cctgctgccaagtggtacttgtgta	Y00309
94247	agtggtgacctggttagtgtgacag	Y00309
94248	ctgtctctgagacacactgccaact	Y00309
94249	ctgagacacactgccaactgcaggc	Y00309
94250	cacactgccaactgcaggcttcgat	Y00309
94251	gccaactgcaggcttcgattacccc	Y00309
94252	cttcgattacccctgtgagcctgct	Y00309

TABLE 1

SEQ ID NO	sequence	DBAxnID
9045	ccacaccaagcactttgtttctaat	U00445
9046	caagcactttgtttctaatatcttt	U00445
9047	gtctccactgtacataaaagtcaca	U00445
9048	cataaaagtcacactgtgtgcttgc	U00445
9049	agtcacactgtgtgcttgcattcct	U00445
9050	tgcttgcattcctgtatggtagtgg	U00445
9051	gtgactgtctctcacaccaccttct	U00445
9052	accttctctatcacgtcacagtttt	U00445
9053	tctatcacgtcacagttttctcctc	U00445
9054	acgtcacagttttctcctcctcagc	U00445
9055	tgctcagggtctcagcctggcaaca	M23504
9056	atccctacagaaaactgcagcaaga	M23504
9057	ctgtatacataactctgctacctca	M23504
9058	tatacataactctgctacctcactg	M23504
9059	taactctgctacctcactgtagcct	M23504
9060	tgctacctcactgtagcctccaggt	M23504
9061	agcaacactcctgtctgccacggca	M23504
9062	cagccctcagccatgaaataactta	M23504
9063	ccctcagccatgaaataacttattg	M23504
9064	aatggcctgttacactcaaggtgat	M23504
9065	cttttcattgactgtcaaactagaa	M23504
9066	ttcattgactgtcaaactagaaacc	M23504
9067	aactgcagcaagaccgtgagtccag	M23504
9068	aagaccgtgagtccagcctgtggcc	M23504
9069	ctggtccacacagggcaactgaggc	M23504
9070	caactgaggcaggcagcagcttgag	M23504
9071	acatggtttgctgcctatgccctgg	M23504
9072	tggtttgctgcctatgccctggggg	M23504
9073	ctggggtccctggcaatattactgt	M23504
9074	ttactgtatacataactctgctacc	M23504
9075	gaaaggatccacctggaggaagagg	W51213
9076	atccacctggaggaagagggcccag	W51213
9077	cacctggacggccgcacattttaca	W51213
9078	cctggacggccgcacattttacatt	W51213
9079	tggacggccgcacattttacattga	W51213
9080	gacggccgcacattttacattgacc	W51213
9081	cggccgcacattttacattgaccat	W51213
9082	gccgcacattttacattgaccataa	W51213
9083	cgcacattttacattgaccataata	W51213
9084	cacattttacattgaccataatagc	W51213
9085	cattttacattgaccataatagcaa	W51213
9086	ttacattgaccataatagcaaaatt	W51213
9087	agatgcttttgaccgcaatgacctg	W51213
9088	atgcttttgaccgcaatgacctggg	W51213
9089	gcttttgaccgcaatgacctgggcc	W51213
9090	ttgaccgcaatgacctgggccctct	W51213
9091	aatgacctgggccctcttcctctgg	W51213
9092	aggatccacctggacggccgcacat	W51213
9093	gatccacctggacggccgcacattt	W51213
9094	tccacctggacggccgcacatttta	W51213
9095	acagtttttttcgactcatgatagca	M38381
9096	cttggaccactaccaaagcacatga	M38381
9097	ctatctcaggatgccgaacatgagc	M38381
9098	catgagcttctctttgacctcattg	M38381
9099	tttgacctcattgggaaaatgttgg	M38381
9100	gagtatgatcccgccaaaagaatta	M38381
9101	gatcccgccaaaagaattactctca	M38381
9102	actctcaaagaagccctaaagcatc	M38381
9103	tcttacagactgtatcagtctagct	M38381
9104	agactgtatcagtctagcttttaat	M38381
9105	tggccaaaccaaataacatctttca	M38381
9106	ataacatctttcagtaattatagaa	M38381
9107	ccactaccaaagcacatgatacaga	M38381
9108	cgcagatatttccatcatgatcgat	M38381
9109	tatttccatcatgatcgattagatt	M38381
9110	agttctgctggcagatatgtttctc	M38381
9111	gtttctcggcgctgtaaacctctga	M38381
9112	cggcgctgtaaacctctgaaggagt	M38381
51649	gacaatggctctgcctctaaaggtc	U08439
51650	agcaatcttcaaattggccttctgc	U08439
51651	aatcttcaaattggccttctgcaca	U08439
51652	caaattggccttctgcacaccggct	U08439
51653	accggctctgagagcccctgaggtt	U08439
51654	tctgagagcccctgaggttccagtg	U08439
51655	gagagcccctgaggttccagtggac	U08439
51656	agcccctgaggttccagtggacagt	U08439
51657	ggacagttccaagctcaataaaggt	U08439
51658	cagttccaagctcaataaaggtgtg	U08439
51659	ttccaagctcaataaaggtgtggaa	U08439
51660	tctgcctctaaaggtcctgagccgg	U08439
51661	catggccagcgcagccaaaggagac	U08439
51662	agagttcatcccgtatcaccacctc	U08439
51663	caccggttatgagcacccttgatgt	U08439
51664	tgagcacccttgatgtctcagcaga	U08439
51665	cagacacgctctgccagcaatcttc	U08439
51666	acacgctctgccagcaatcttcaaa	U08439
51667	gccagcaatcttcaaattggccttc	U08439
51668	cctggccacactgctctgggagacc	X85214
51669	cacactgctctgggagacccagcgc	X85214
51670	tgctgttctcctaggcctgggcctg	X85214
51671	cctgctggccttgtacctgctccgg	X85214
51672	acacacagacgcacactttactctg	X85214
51673	acactttactctggccaagatctga	X85214
51674	cacggacaacccatatcctgatgcc	X85214
51675	caacccatatcctgatgcctgccag	X85214
51676	tccacaccgttctaggtgctgggct	X85214
51677	tggctctgggctttcctatgtatgc	X85214
51678	ctatgcatactacctgcctggtggt	X85214
51679	atactacctgcctggtggtgctcct	X85214
51680	ggagacccagcgccctacattcagg	X85214
51681	attcaggccaaccactgtccaatcc	X85214
51682	cactgtccaatccaccacagtctgg	X85214
51683	caccacagtctggcccaggacttct	X85214
51684	agtctggcccaggacttctgagttg	X85214
51685	ggtgactcctgagggccctgcattt	X85214
51686	gggccctgcatttgctgttctccta	X85214
51687	tgcatttgctgttctcctaggcctg	X85214
51688	cgagaaactcatcctgttagaaatt	AA036297
51689	gaaactcatcctgttagaaattgga	AA036297
51690	tggaatccctaagccaaatgtcaaa	AA036297
51691	aatccctaagccaaatgtcaaatgg	AA036297
51692	tgtcaaatggactacgccaggtggc	AA036297
51693	caaatggactacgccaggtggcctt	AA036297
51694	atggactacgccaggtggccttgta	AA036297
51695	ccttgtaatcgacagacctcaagtc	AA036297
51696	tgtaatcgacagacctcaagtcggt	AA036297
51697	aaatggcacgttggtcatcaaagaa	AA036297
51698	tggcacgttggtcatcaaagaaaca	AA036297
51699	aacagctcatgacagaggaaattat	AA036297
51700	actcatcctgttagaaattggacag	AA036297
51701	gaagccagtcattctgacatacgaa	AA036297
51702	gccagtcattctgacatacgaaccg	AA036297
51703	agtcattctgacatacgaaccgggg	AA036297
51704	cattctgacatacgaaccggggatg	AA036297
51705	gacatacgaaccggggatgataaag	AA036297
51706	cctgcattgtgtgtctgatggaatc	AA036297
51707	tgatggaatccctaagccaaatgtc	AA036297
51708	aatggcacaaggctttctgccagtg	X72310
51709	acaaggctttctgccagtgatttga	X72310
51710	gatacccgcgagttctggagttgag	X72310
51711	gcagtttgagcctagctgcggatgt	X72310
51712	tagctgcggatgtgttgtgaagcca	X72310
51713	tgttgtgaagccagcgtgctaatgc	X72310
51714	gaagccagcgtgctaatgcagagcc	X72310
51715	ctaatgcagagcctctatctacctt	X72310
51716	tttgcccctcaacagttgttgctgg	X72310
94253	cccctgtcagtcgagttctcgggag	AA122968
94254	cctgtcagtcgagttctcgggagag	AA122968
94255	tcattttggtggtcctgttgattcg	AA122968
94256	attttggtggtcctgttgattcgag	AA122968
94257	tttggtggtcctgttgattcgagga	AA122968
94258	gtggtcctgttgattcgaggagtga	AA122968
94259	ggtcctgttgattcgaggagtgaca	AA122968
94260	tcctgttgattcgaggagtgacact	AA122968
94261	agtgacactgcccggagcagcccaa	AA122968
94262	actgcccggagcagcccaaggaatt	AA122968
94263	cccggagcagcccaaggaattcagt	AA122968
94264	gagcagcccaaggaattcagtttta	AA122968
94265	ggcgagtcctgaagctctcggatgg	AA122968
94266	cgagtcctgaagctctcggatggca	AA122968
94267	agtcctgaagctctcggatggcatc	AA122968
94268	agctctcggatggcatccagcacct	AA122968
94269	ctctcggatggcatccagcacctgg	AA122968
94270	gatggcatccagcacctggggtccc	AA122968
94271	aactggtcctgtgcctcctgctcgc	AA122968
94272	cctcattttggtggtcctgttgatt	AA122968
94273	gtttttcgcgagactgagccacgcg	W48195
94274	ttttcgcgagactgagccacgcgtc	W48195
94275	ccacgcgtctatcttctgtcccagg	W48195
94276	cacgcgtctatcttctgtcccaggg	W48195
94277	gcgtctatcttctgtcccagggccg	W48195
94278	cgtctatcttctgtcccagggccgc	W48195
94279	gtctatcttctgtcccagggccgcc	W48195
94280	atcttctgtcccagggccgccgtca	W48195
94281	ttgagcagcgcgccttcccaagcta	W48195
94282	tgagcagcgcgccttcccaagctat	W48195
94283	agcgcgccttcccaagctatttcag	W48195
94284	cgcgccttcccaagctatttcagca	W48195
94285	tttcgcgagactgagccacgcgtct	W48195
94286	ttcgcgagactgagccacgcgtcta	W48195
94287	tcgcgagactgagccacgcgtctat	W48195
94288	agactgagccacgcgtctatcttct	W48195
94289	actgagccacgcgtctatcttctgt	W48195
94290	ctgagccacgcgtctatcttctgtc	W48195
94291	tgagccacgcgtctatcttctgtcc	W48195
94292	gccacgcgtctatcttctgtcccag	W48195
94293	gagtgcacctggctgatattccagt	AA123071
94294	acctggctgatattccagttctctg	AA123071
94295	ttcccccagggcagttcacggccat	AA123071
94296	ggcagttcacggccatcttcggggc	AA123071
94297	cggccatcttcggggccgtgcagct	AA123071
94298	tgtgtgcgccgcatggtcagtttca	AA123071
94299	gtgcgccgcatggtcagtttcatgc	AA123071
94300	cgccgcatggtcagtttcatgctca	AA123071
94301	atggtcagtttcatgctcagacgtc	AA123071
94302	gtcagtttcatgctcagacgtctgc	AA123071
94303	agtttcatgctcagacgtctgccga	AA123071
94304	ttcatgctcagacgtctgccgagag	AA123071
94305	atattccagttctctgtccctgtt	AA123071
94306	atgctcagacgtctgccgagagcca	AA123071
94307	gtcccctgttgtggctctcatcaca	AA123071
94308	tgttgtggctctcatcacaggtctt	AA123071
94309	tgtggctctcatcacaggtcttcac	AA123071
94310	ggctctcatcacaggtcttcacagc	AA123071
94311	tctcatcacaggtcttcacagcttc	AA123071
94312	cacaggtcttcacagcttcttctcc	AA123071
94313	gcattcccccagggcagttcacggc	AA123071
94314	gatttagtcaggcctggaacctcca	AA123106
94315	ggtctggtctccaaatccatcagag	AA123106
94316	ttattgctcaccggagagtccacac	AA123106
94317	attgctcaccggagagtccacacgg	AA123106
94318	ttgctcaccggagagtccacacggg	AA123106
94319	agtcttgcctcaagtctacggactc	AA123106
94320	cttgcctcaagtctacggactcatc	AA123106

TABLE 1

SEQ ID NO	sequence	DBAxnID
9113	tgtaaacctctgaaggagtttatgc	M38381
9114	tttatgctatctcaggatgccgaac	M38381
9115	aaacttctctgaggtggccaggagc	W51214
9116	cgtgacacaacccaggaaccttgcg	W51214
9117	cgactctcatttatgaaggaaccca	W51214
9118	atgaaggaacccaaatccacaagag	W51214
9119	ggaacccaaatccacaagaggactg	W51214
9120	acccaaatccacaagaggactggtg	W51214
9121	cccaaatccacaagaggactggtgc	W51214
9122	caaatccacaagaggactggtgcat	W51214
9123	aaatccacaagaggactggtgcatc	W51214
9124	catcaagctatttgcaacttaaaca	W51214
9125	tcaagctatttgcaacttaaacatc	W51214
9126	catcaccctgccgatttatgccaag	W51214
9127	tgacacaacccaggaaccttgcggg	W51214
9128	atcaccctgccgatttatgccaagg	W51214
9129	ccaggaaccttgcgggcgactctca	W51214
9130	caggaaccttgcgggcgactctcat	W51214
9131	gaaccttgcgggcgactctcattta	W51214
9132	ccttgcgggcgactctcatttatga	W51214
9133	ttgcgggcgactctcatttatgaag	W51214
9134	cgggcgactctcatttatgaaggaa	W51214
9135	gcgactctcatttatgaaggaaccc	W51214
9136	gctgtgctgccgcgacggatgacgc	W15722
9137	ggcttctgaccccatgccagtgttg	W15722
9138	acagccgccgctaaagcagaggacg	W15722
9139	gccgccgctaaagcagaggacgatt	W15722
9140	cagtggttcctgcttttaatccctg	W15722
9141	tggttcctgcttttaatccctgcta	W15722
9142	ttcctgcttttaatccctgctactg	W15722
9143	ctgcttttaatccctgctactgctt	W15722
9144	cttttaatccctgctactgcttttg	W15722
9145	ttaatccctgctactgcttttggcc	W15722
9146	cctgctactgcttttggcctgggga	W15722
9147	gctactgcttttggcctggggactt	W15722
9148	ttctgaccccatgccagtgttgtaa	W15722
9149	cttcctccagggatggtctgtaggc	W15722
9150	atggtctgtaggccacgcaggtgtt	W15722
9151	aggccacgcaggtgttgcagttcta	W15722
9152	tgcagttctactgctgaaacagccg	W15722
9153	agttctactgctgaaacagccgccg	W15722
9154	tctactgctgaaacagccgccgcta	W15722
9155	gaaacagccgccgctaaagcagagg	W15722
9156	tagttaccaactggtagcagattcg	W51224
9157	ttaccaactggtagcagattcgaac	W51224
9158	ggcttcgacgctttcttgatgactt	W51224
9159	ttcgacgctttcttgatgacttcgg	W51224
9160	gacgctttcttgatgacttcgggga	W51224
9161	ttcttgatgacttcggggacctcac	W51224
9162	ttgatgacttcggggacctcacgaa	W51224
9163	gggacctcacgaacgtgggtgacat	W51224
9164	acctcacgaacgtgggtgacatgaa	W51224
9165	atgtacaggccaatagcgttgatgg	W51224
9166	atgaaacgctgctggacaagcatca	W51224
9167	atcaagagcacaagggtcggatcga	W51224
9168	agcagattcgaactctgggcgcaga	W51224
9169	ttcgaactctgggcgcagagagaca	W51224
9170	gaactctgggcgcagagagacatgc	W51224
9171	agagacatgcacggcttgatgactc	W51224
9172	atgcacggcttgatgactcatacag	W51224
9173	atgactcatacaggcttcgacgctt	W51224
9174	actcatacaggcttcgacgctttct	W51224
9175	catacaggcttcgacgctttcttga	W51224
9176	atgaactcccaggccagagaacagg	M14689
9177	aagacgccttgagtgacgacagcat	M14689
9178	acttcagttcctttaagcagctggg	M14689
9179	ttaagcagctggggagatgaagcct	M14689
9180	atggccactgatatcctgacattgg	M14689

SEQ ID NO:	sequence	DBAxnID
51717	cagttgttgctgggtttgccgagga	X72310
51718	ttgctgggtttgccgaggaaactgt	X72310
51719	gacaaagtgctgccctgcctccgat	X72310
51720	atgctggccacgagctccaatgggt	X72310
51721	gccacgagctccaatgggtctcagt	X72310
51722	aatgggtctcagtacagcggctcca	X72310
51723	tctcagtacagcggctccagggtcg	X72310
51724	tacagcggctccagggtcgagaccc	X72310
51725	ctccccttcgaatcagcttcaggaa	X72310
51726	ttcgaatcagcttcaggaaaaacac	X72310
51727	caagaagatacccgcgagttctgga	X72310
51728	agcagctggccaagccgctcttgcg	Z21848
51729	tcttgcgcatctttgagcccatcct	Z21848
51730	gccgcaactgttgcattggctgccg	Z21848
51731	actgttgcattggctgccgctccgt	Z21848
51732	gtaagttctgtcagccacgggagtc	Z21848
51733	cacacctgaatgccttggaagaacg	Z21848
51734	ctcgcctctggacacagtgtcaacg	Z21848
51735	cacagtgtcaacgctgccagggcag	Z21848
51736	acgtcatctgtaccagccgtgactg	Z21848
51737	ccagccgtgactgtcccatcttcta	Z21848
51738	gtcccatcttctacatgcgcaagaa	Z21848
51739	aagaccaggaacggctgctgcagcg	Z21848
51740	gcatctttgagcccatcctgggtga	Z21848
51741	agtctgtgctgctgcgcggtgacca	Z21848
51742	gtgaccacacacgatgcaagactgt	Z21848
51743	acacacgatgcaagactgtgctcac	Z21848
51744	agactgtgctcaccagcaaggtggg	Z21848
51745	gcggcctcttggccttcaccaagcg	Z21848
51746	tcttggccttcaccaagcgccgcaa	Z21848
51747	ccaagcgccgcaactgttgcattgg	Z21848
51748	aacatcgtgaagttcctggttggct	AA036265
51749	ctagatgcctcgttccgttatcctc	AA036265
51750	gagtattccttcatccctgcagagc	AA036265
51751	tattccttcatccctgcagagccga	AA036265
51752	ttcatccctgcagagccgatgggag	AA036265
51753	cctgcagagccgatgggaggacgac	AA036265
51754	ccctttggtctggttatcaatctga	AA036265
51755	gttatcaatctgaactacaaagatt	AA036265
51756	aatgtattccaggatgctgtcttca	AA036265
51757	gtattccaggatgctgtcttcaatc	AA036265
51758	gatgctgtcttcaatcagacggtca	AA036265
51759	gctgtcttcaatcagacggtcacag	AA036265
51760	gcctcgttccgttatcctcaggact	AA036265
51761	tatcctcaggactaccagttttaca	AA036265
51762	caggactaccagttttacatccaga	AA036265
51763	taccagttttacatccagaatttca	AA036265
51764	ttttacatccagaatttcacagctc	AA036265
51765	cttcctctaaacactgtagtgccac	AA036265
51766	ccccagcggcaggcaacttttgagt	AA036265
51767	tttgagtattccttcatccctgcag	AA036265
51768	tacttttactctcatccaccacgaa	X81632
51769	catccaccacgaattggaaatttct	X81632
51770	ggcccagataaggcacctagagaag	X81632
51771	gtactctatcatgaagtctttacag	X81632
51772	tatcatgaagtctttacaggatgac	X81632
51773	cttcagttacagctgaaccaagaaa	X81632
51774	aacctgcagctggaaagcgaagaac	X81632
51775	ctgaacatcctcatcagatgtttta	X81632
51776	atcctcatcagatgttttaaggatt	X81632
51777	aaggatttccaactgcagcgagcca	X81632
51778	ttccaactgcagcgagccaataaaa	X81632
51779	tactttgctcaggcacgttggcgcc	X81632
51780	aatttctaccaacccagctcagtat	X81632
51781	ctcaggcacgttggcgcctgacaga	X81632
51782	cccagctcagtatgctatgattctg	X81632
51783	tgctatgattctggacattgtcaac	X81632
51784	tgtcaacaacctgcttctccacgta	X81632

SEQ ID NO	sequence	DBAxnID
94321	cctcaagtctacggactcatcagag	AA123106
94322	caagtctacggactcatcagagagt	AA123106
94323	agtctacggactcatcagagagttc	AA123106
94324	gtctacggactcatcagagagttca	AA123106
94325	ctacggactcatcagagagttcaca	AA123106
94326	gaattcagcttgaattccgggctta	AA123106
94327	tacggactcatcagagagttcacac	AA123106
94328	aattcagcttgaattccgggcttat	AA123106
94329	tcagcttgaattccgggcttattgc	AA123106
94330	agcttgaattccgggcttattgctc	AA123106
94331	ttgaattccgggcttattgctcacc	AA123106
94332	tgaattccgggcttattgctcaccg	AA123106
94333	gggcttattgctcaccggagagtcc	AA123106
94334	cttattgctcaccggagagtccaca	AA123106
94335	tccaaggatctcgtctgagcatctc	AA049022
94336	aaggatctcgtctgagcatctctag	AA049022
94337	tttagctccaagtcctggcagggtg	AA049022
94338	ggggcacctatctgaggcagggttt	AA049022
94339	ctggctgccgctgctgttacttcag	AA049022
94340	gccgctgctgttacttcaggatgaa	AA049022
94341	cccccgttaacagcactatgagtat	AA049022
94342	ccgttaacagcactatgagtattgg	AA049022
94343	gtattggtcaagcacgcaagatggt	AA049022
94344	gtcaagcacgcaagatggtggaaca	AA049022
94345	agattgaggccagcttgtgccggat	AA049022
94346	aggccagcttgtgccggataaaggt	AA049022
94347	gatctcgtctgagcatctctagtga	AA049022
94348	tgagcatctctagtgaccttctctg	AA049022
94349	gcatctctagtgaccttctctgcat	AA049022
94350	ctagtgaccttctctgcattaactg	AA049022
94351	accttctctgcattaactgtcagtg	AA049022
94352	tctgcattaactgtcagtgctacgg	AA049022
94353	gcattaactgtcagtgctacggata	AA049022
94354	atttttagctccaagtcctggcagg	AA049022
94355	gttctctccaaagaatttcatctga	AA122619
94356	tctctccaaagaatttcatctgaac	AA122619
94357	ttgacaaaacgctcaggtcaagcgc	AA122619
94358	gacaaaacgctcaggtcaagcgcaa	AA122619
94359	aaacgctcaggtcaagcgcaaagta	AA122619
94360	acgctcaggtcaagcgcaaagtagg	AA122619
94361	agcgcaaagtaggcccacaggaaga	AA122619
94362	cgcaaagtaggcccacaggaagagg	AA122619
94363	caaagtaggcccacaggaagaggca	AA122619
94364	aagtaggcccacaggaagaggcagc	AA122619
94365	aggagccagagggctccttaacctg	AA122619
94366	attctgaggcaggtgctgaggatgt	AA122619
94367	tctccaaagaatttcatctgaacga	AA122619
94368	gaatttcatctgaacgagagtggtg	AA122619
94369	atttcatctgaacgagagtggtgac	AA122619
94370	ttcatctgaacgagagtggtgaccc	AA122619
94371	tcttcaaagtccaccgaaatcaaat	AA122619
94372	ttcaaagtccaccgaaatcaaatgg	AA122619
94373	gtccaccgaaatcaaatggaaatct	AA122619
94374	atttgacaaaacgctcaggtcaagc	AA122619
94375	gcctccatcacacagaggcaggacc	L35029
94376	atcacacagaggcaggaccctgggg	L35029
94377	ggatatcttccatggccagcttatg	L35029
94378	cttccatggccagcttatgaccta	L35029
94379	tggccagcttatgaccttagcagct	L35029
94380	gcttatgaccttagcagcttaggtc	L35029
94381	gaccttagcagcttaggtcttggtg	L35029
94382	catcacgtgaagtcttgcagtccca	L35029
94383	gtgaagtcttgcagtcccagggagt	L35029
94384	ctggcgtccagtttcctagttgtgg	L35029
94385	tccagtttcctagttgtggttgctg	L35029
94386	ttgctccaattggttggaatttctt	L35029
94387	gatctccagcctggaatcagaagtg	L35029
94388	taccggcagctctggttcctgctgg	L35029

TABLE 1

SEQ ID NO	sequence	DBAxnID
9181	actgatatcctgacattggctgttg	M14689
9182	aagatggcagcgtcggggacttgca	M14689
9183	acttgcatggctttctctgcagtgt	M14689
9184	atggctttctctgcagtgttgagtg	M14689
9185	ttctctgcagtgttgagtgactctt	M14689
9186	gactcttgctgtagctcactgtagc	M14689
9187	tgctgtagctcactgtagcatcccg	M14689
9188	acagcatgacagacctatacccacc	M14689
9189	tgacagacctatacccacctgagct	M14689
9190	acctatacccacctgagctgttcac	M14689
9191	agaacgatgacactcctgaagactt	M14689
9192	atgacactcctgaagactttctgac	M14689
9193	aagactttctgacagaccaacagga	M14689
9194	agagctatcatcacaagcccaagaa	M14689
9195	atcatcacaagcccaagaacttcag	M14689
9196	gggcagctcacagacacacaaatca	W51229
9197	agctcacagacacacaaatcaagag	W51229
9198	cggcctatgacttcaaggctgacat	W51229
9199	gcctatgacttcaaggctgacatct	W51229
9200	ctatgacttcaaggctgacatctgg	W51229
9201	atgacttcaaggctgacatctggtc	W51229
9202	gacttcaaggctgacatctggtccc	W51229
9203	cttcaaggctgacatctggtccctg	W51229
9204	atcacagccatcgagctggccaaag	W51229
9205	cacagccatcgagctggccaaaggg	W51229
9206	cagccatcgagctggccaaagggga	W51229
9207	gccatcgagctggccaaaggggagc	W51229
9208	ctcacagacacacaaatcaagagga	W51229
9209	cccttctggatggcacctgaggtta	W51229
9210	cttctggatggcacctgaggttatc	W51229
9211	tctggatggcacctgaggttatcaa	W51229
9212	tggatggcacctgaggttatcaagc	W51229
9213	ggttatcaagcagtcggcctatgac	W51229
9214	ttatcaagcagtcggcctatgactt	W51229
9215	atcaagcagtcggcctatgacttca	W51229
9216	agcagagctgcgcagcgttggcctt	W55515
9217	cattcctcgataccagcaaatccct	W55515
9218	ataccagcaaatccctacaacatga	W55515
9219	taccagcaaatccctacaacatgac	W55515
9220	cgaagtgttggcggcgcgcttaatg	W55515
9221	gaagtgttggcggcgcgcttaatgt	W55515
9222	aagtgttggcggcgcgcttaatgtc	W55515
9223	agtgttggcggcgcgcttaatgtcc	W55515
9224	gcgcgcttaatgtccccttcgacca	W55515
9225	cgcgcttaatgtccccttcgaccag	W55515
9226	gcgcttaatgtccccttcgaccagt	W55515
9227	gcttaatgtccccttcgaccagtcg	W55515
9228	attcctcgataccagcaaatcccta	W55515
9229	ttcctcgataccagcaaatccctac	W55515
9230	tcctcgataccagcaaatccctaca	W55515
9231	cctcgataccagcaaatccctacaa	W55515
9232	ctcgataccagcaaatccctacaac	W55515
9233	tcgataccagcaaatccctacaaca	W55515
9234	cgataccagcaaatccctacaacat	W55515
9235	gataccagcaaatccctacaacatg	W55515
9236	caggactttgttctctgagtcactt	M63114
9237	tcgctggctctgcaggctgaattca	M63114
9238	catgctagttctttaccacagagct	M63114
9239	agttctttaccacagagctgcctca	M63114
9240	ttaccacagagctgcctcagtgcac	M63114
9241	tgcctcagtgcacagccacctgcag	M63114
9242	agtgcacagccacctgcagtggcag	M63114
9243	gcagaccctgggaggcaagtgcatg	M63114
9244	cagcagaagccctcgtcccagggtt	M63114
9245	gcctcctgtgggttctgcctgggat	M63114
9246	atacacatattggtttggcaaaagt	M63114
9247	tataaacctcatttttatgctgtat	M63114
9248	caggctgaattcaccttctcaacac	M63114

SEQ ID NO:	sequence	DBAxnID
51785	gcttctccacgtagaacccaagcgg	X81632
51786	caatcctgaggagcagcgcagcagc	X81632
51787	gcagcgcagcagcatactacacctg	X81632
51788	cagcagcatactacacctgcaggag	X81632
51789	aagcgtgagcatcctgctctgcctg	AA036390
51790	agcgtgagcatcctgctctgcctgg	AA036390
51791	acttcttgctctagaaattgaacgg	AA036390
51792	cttcttgctctagaaattgaacggt	AA036390
51793	ttcttgctctagaaattgaacggtg	AA036390
51794	aaattgaacggtgctactcacggct	AA036390
51795	attgaacggtgctactcacggctca	AA036390
51796	ttgaacggtgctactcacggctcaa	AA036390
51797	gaacggtgctactcacggctcaagg	AA036390
51798	aacggtgctactcacggctcaagga	AA036390
51799	acggtgctactcacggctcaaggag	AA036390
51800	gtgagcatcctgctctgcctgggga	AA036390
51801	gagcatcctgctctgcctggggacg	AA036390
51802	ttgccggccttgctggacgagcaca	AA036390
51803	aggtgaacttcttgctctagaaatt	AA036390
51804	ggtgaacttcttgctctagaaattg	AA036390
51805	gtgaacttcttgctctagaaattga	AA036390
51806	gaacttcttgctctagaaattgaac	AA036390
51807	aacttcttgctctagaaattgaacg	AA036390
51808	ggaactctgctgaagtgttgctgaa	D87663
51809	cagttcaacaatccgtggctgctca	D87663
51810	atttgtactactggatatctgactg	D87663
51811	actactggatatctgactggagccg	D87663
51812	ggatatctgactggagccgcaggta	D87663
51813	tattgttcttactgaaacacagcat	D87663
51814	tgttcttactgaaacacagcatgga	D87663
51815	tactgaaacacagcatggaattaac	D87663
51816	tatatcatgcctccatcctttatac	D87663
51817	atgcctccatcctttatacttctaa	D87663
51818	tagtccagacatgtttgacagtatt	D87663
51819	ttcaaaccagttagcaaacaatatt	D87663
51820	tggctgctcattcttgccgactcct	D87663
51821	tcaaaccagttagcaaacaatattt	D87663
51822	ccctctgaagcaggttagcattgaa	D87663
51823	ggaagcctgcatgcgtgttcaactc	D87663
51824	agcctgcatgcgtgttcaactctgt	D87663
51825	catgcgtgttcaactctgttcctcc	D87663
51826	ctcgctcaacctcttttgttcagta	D87663
51827	gctcaacctcttttgttcagtacgt	D87663
51828	ctaatttgtactactggatatctga	D87663
51829	tggatacaaagcactacccatacat	AA036445
51830	gatacaaagcactacccatacatct	AA036445
51831	gagtgcccgctatggacattggcac	AA036445
51832	ccgcctcattattttcatccttggg	AA036445
51833	gcctcattattttcatccttggggg	AA036445
51834	gtgcttacgaagtgacccaggccaa	AA036445
51835	gcttacgaagtgacccaggccaacg	AA036445
51836	gaagtgacccaggccaacgcaaggt	AA036445
51837	agtgacccaggccaacgcaaggtgg	AA036445
51838	tgacccaggccaacgcaaggtggga	AA036445
51839	gctgatatgatccacgcacattctc	AA036445
51840	tgatatgatccacgcacattctcac	AA036445
51841	tacaaagcactacccatacatctct	AA036445
51842	caaagcactacccatacatctctac	AA036445
51843	tccttcagcaccactgctgtgagtg	AA036445
51844	cttcagcaccactgctgtgagtgcc	AA036445
51845	agcaccactgctgtgagtgcccgct	AA036445
51846	caccactgctgtgagtgcccgctat	AA036445
51847	actgctgtgagtgcccgctatggac	AA036445
51848	ctgtgagtgcccgctatggacattg	AA036445
51849	agtaggatccttgccagtgtccaag	AA036460
51850	aggatccttgccagtgtccaagtga	AA036460
51851	ttcccagagtggaccatatcctggt	AA036460
51852	gagtggaccatatcctggttcgtgt	AA036460

SEQ ID NO	sequence	DBAxnID
94389	ctgctggactggattctgtggctgg	L35029
94390	gactggattctgtggctggtcttgg	L35029
94391	acaagctttgactcctctgccttct	L35029
94392	tcctctgccttcttctttgaaattc	L35029
94393	gccttcttctttgaaattctggcca	L35029
94394	gaaattctggccatgagaccccagt	L35029
94395	tggtgactcttttactggcttagca	AA122690
94396	gactcttttactggcttagcagttc	AA122690
94397	gttagttccaacactgatgcgcaga	AA122690
94398	tagttccaacactgatgcgcagatc	AA122690
94399	gttccaacactgatgcgcagatctt	AA122690
94400	tccaacactgatgcgcagatcttct	AA122690
94401	caacactgatgcgcagatcttcttg	AA122690
94402	tatcatgaagctggacgttggcaca	AA122690
94403	agctggacgttggcacacgtatcca	AA122690
94404	gttggcacacgtatccaggacgtgg	AA122690
94405	tggcacacgtatccaggacgtggct	AA122690
94406	gcacacgtatccaggacgtggctct	AA122690
94407	ctcttttactggcttagcagttcat	AA122690
94408	tctcgtttgcccacgtttgttctga	AA122690
94409	cttttactggcttagcagttcattg	AA122690
94410	tttactggcttagcagttcattggc	AA122690
94411	tactggcttagcagttcattggcac	AA122690
94412	ctggcttagcagttcattggcacac	AA122690
94413	cttagcagttcattggcacacaggc	AA122690
94414	tagcagttcattggcacacaggctg	AA122690
94415	agatgttagttccaacactgatgcg	AA122690
94416	agctctgcccattccaagaaaagat	AA123389
94417	gcccattccaagaaaagattcggag	AA123389
94418	cgtggcaatcccggcgcctgatgaa	AA123389
94419	ggcaatcccggcgcctgatgaagaa	AA123389
94420	cccggcgcctgatgaagaagacgtg	AA123389
94421	tttatggtgctcacaggttttgtgg	AA123389
94422	gtgctcacaggttttgtgggttgaa	AA123389
94423	acttacctgcagtcactctggaaac	AA123389
94424	tacctgcagtcactctggaaacctg	AA123389
94425	cagtcactctggaaacctggctgaa	AA123389
94426	tcactctggaaacctggctgaagac	AA123389
94427	ctctggaaacctggctgaagacaag	AA123389
94428	atttaagcacaaatctggtaagtca	AA123389
94429	agatgctgcagacagcctacaacaa	AA123389
94430	tgctgcagacagcctacaacaagct	AA123389
94431	tgcagacagcctacaacaagctcca	AA123389
94432	cagcctacaacaagctccacgcgtg	AA123389
94433	cctacaacaagctccacgcgtggca	AA123389
94434	acaacaagctccacgcgtggcaatc	AA123389
94435	acaagctccacgcgtggcaatcccg	AA123389
94436	aagcctactccaagcatccttggta	AA123429
94437	actccaagcatccttggtatggcca	AA123429
94438	tttatctaagggacagctgttggat	AA123429
94439	acagctgttggatactcaggccaat	AA123429
94440	tactcaggccaattctaaatcctag	AA123429
94441	caattctaaatcctagactgtcatg	AA123429
94442	ttctaaatcctagactgtcatgact	AA123429
94443	atcctagactgtcatgacttaaata	AA123429
94444	aagagcccagagctttctggtgtaa	AA123429
94445	agcccagagctttctggtgtaaatt	AA123429
94446	aattcacaattatatgcataagcca	AA123429
94447	gcttttccttaaatacttgacagag	AA123429
94448	agcatccttggtatggccagatttt	AA123429
94449	tttttatagcctctaagatggaatt	AA123429
94450	ttatagcctctaagatggaatttaa	AA123429
94451	aatttaatctaatttctctcaggct	AA123429
94452	atctaatttctctcaggcttttcct	AA123429
94453	ctctcaggcttttccttttatctaag	AA123429
94454	ttttccttttatctaagggacagctg	AA123429
94455	tcctttatctaagggacagctgttg	AA123429
94456	gtcactacagtcgatgtcaccgatg	AA123395

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
9249	accttctcaacacctagcccatgtt	M63114	51853	tggaccatatcctggttcgtgttag	AA036460	94457	ctacagtcgatgtcaccgatggacg	AA123395
9250	ccatgttttcctgcagccttatggc	M63114	51854	atatcctggttcgtgttagagattg	AA036460	94458	caatgtcatcgcatgttgctcaggt	AA123395
9251	tttcctgcagccttatggcctgcct	M63114	51855	ttagagattggtcgggctagaggct	AA036460	94459	atgtcatcgcatgttgctcaggttc	AA123395
9252	gcagccttatggcctgcctattcct	M63114	51856	attggtcgggctagaggctatgact	AA036460	94460	tgctcaggttctgagcaagcctctg	AA123395
9253	tattcctcccaagtgagttccagca	M63114	51857	tatgacttgaggcttagtgggtttt	AA036460	94461	ctcaggttctgagcaagcctctgat	AA123395
9254	actggctcaggccatgctagttctt	M63114	51858	tggcgattcccttgcaatgagtaga	AA036460	94462	ggttctgagcaagcctctgatcagg	AA123395
9255	tcaggccatgctagttctttaccac	M63114	51859	cgattcccttgcaatgagtagatgt	AA036460	94463	ttctgagcaagcctctgatcaggac	AA123395
9256	tactctccgctaaacgctcggcagg	W54962	51860	ttcccttgcaatgagtagatgtccc	AA036460	94464	ctgagcaagcctctgatcaggacaa	AA123395
9257	ccgctaaacgctcggcaggaatcat	W54962	51861	cttgccagtgtccaagtgatggctc	AA036460	94465	gagcaagcctctgatcaggacaaca	AA123395
9258	tcagtttccgtctcgtctacgatag	W54962	51862	agtgtccaagtgatggctcattgtt	AA036460	94466	gcaagcctctgatcaggacaacaac	AA123395
9259	agggttatggcttctgcgagtacca	W54962	51863	aaactatttgaggcttgtgagaaga	AA036460	94467	atcgagtcaagtcagctggatgaat	AA123395
9260	gcttctgcgagtaccaagaccagga	W54962	51864	ctatttgaggcttgtgagaagaaag	AA036460	94468	acagtcgatgtcaccgatggacgag	AA123395
9261	tctgcgagtaccaagaccaggagac	W54962	51865	aaagttgcctgtagtgggactgtag	AA036460	94469	agtcgatgtcaccgatggacgaggt	AA123395
9262	agtaccaagaccaggagactgcgct	W54962	51866	gttgcctgtagtgggactgtagttg	AA036460	94470	tcgatgtcaccgatggacgaggtga	AA123395
9263	agactgcgcttagtgccatgcggaa	W54962	51867	actgtagttgagcgtcctgaatgtg	AA036460	94471	gatgtcaccgatggacgaggtgata	AA123395
9264	ttagtgccatgcggaacctcaatgg	W54962	51868	gggttcccagagtggaccatatcct	AA036460	94472	tgtcaccgatggacgaggtgatagc	AA123395
9265	gtgccatgcggaacctcaatgggcg	W54962	51869	tttgcctccattggtaccaggcatg	X61450	94473	agtctcgtcaatgtcatcgcatgtt	AA123395
9266	ccatgcggaacctcaatgggcgaga	W54962	51870	tccattggtaccaggcatgcatgtg	X61450	94474	tctcgtcaatgtcatcgcatgttgc	AA123395
9267	ggaacctcaatgggcgagaatttag	W54962	51871	caccatggttgtcttacggggcact	X61450	94475	tcgtcaatgtcatcgcatgttgctc	AA123395
9268	aacgctcggcaggaatcatgtcgag	W54962	51872	cacacctccatgaagaagtgttgga	X61450	94476	gaacaccttcagacaggactgtgaa	AA122502
9269	tgtcgagtttggcggtcagagaccc	W54962	51873	gattactttgctgcttgtaaagaaa	X61450	94477	tgaacggccaattcaacgaggatgg	AA122502
9270	gagacccagccatggatcgatcact	W54962	51874	taaatgctgggccaggcatgatgaa	X61450	94478	tctttaagctctgtgccaatgtcta	AA122502
9271	acccagccatggatcgatcactgcg	W54962	51875	acacttgtaatcccgcagtatctac	X61450	94479	ttaagctctgtgccaatgtctaatc	AA122502
9272	tggatcgatcactgcgttcggtgtt	W54962	51876	gtaatcccgcagtatctacaaggtg	X61450	94480	agctctgtgccaatgtctaatctct	AA122502
9273	atcgatcactgcgttcggtgttcgt	W54962	51877	ccagcctggactcctagtgaattcc	X61450	94481	tctgtgccaatgtctaatctctctg	AA122502
9274	ttccgtatgaggcgacggaggacga	W54962	51878	cctagtgaattccaggccagcctaa	X61450	94482	gtgccaatgtctaatctctctggaa	AA122502
9275	gttcagttgtcagtttccgtctcgt	W54962	51879	aatgtgagactccatctcaaaaagc	X61450	94483	tctaatctctctggaatggttttcc	AA122502
9276	cctcggccgtttcctcagattctag	W51261	51880	agactccatctcaaaaagccaacca	X61450	94484	ctctctggaatggttttcctgaaca	AA122502
9277	tcggccgtttcctcagattctagag	W51261	51881	gatgcttacgcatacatgcagacaa	X61450	94485	atggttttcctgaacacctgtcatc	AA122502
9278	tcttgccaacggggtcatcctctgc	W51261	51882	ttactgctttgttcatggccagcca	X61450	94486	gttttcctgaacacctgtcatccct	AA122502
9279	ctctgccagctgcgaaccagcttcg	W51261	51883	ctttgttcatggccagccacaggca	X61450	94487	ctgaacacctgtcatccctctcata	AA122502
9280	ctgccagctgcgaaccagcttcgac	W51261	51884	tcatggccagccacaggcagccttg	X61450	94488	aggatggctcctttattggccaata	AA122502
9281	tgccagctgcgaaccagcttcgacc	W51261	51885	ctcccagttcagtcttctgatgcga	X61450	94489	atggctcctttattggccaatacag	AA122502
9282	cccgctctgtgcccttcattcatgt	W51261	51886	gttcagtcttctgatgcgaccattt	X61450	94490	ttattggccaatacagtggtaagaa	AA122502
9283	cgctctgtgcccttcattcatgtgc	W51261	51887	tcttctgatgcgaccatttaaagtg	X61450	94491	aaagctcagaggccccttctcctgt	AA122502
9284	gctctgtgcccttcattcatgtgcc	W51261	51888	taaagtgagacccaccatggttgtc	X61450	94492	cttctcctgtcaacgcaatgaactc	AA122502
9285	tctgtgcccttcattcatgtgccct	W51261	51889	tccacccagtaggtgcatttgcaaa	AA036484	94493	ctgtcaacgcaatgaactcctttgt	AA122502
9286	ctgtgcccttcattcatgtgccctc	W51261	51890	ccacccagtaggtgcatttgcaaaa	AA036484	94494	tcaacgcaatgaactcctttgttta	AA122502
9287	gtgcccttcattcatgtgccctcac	W51261	51891	agatgtccttcactggaaggcgctt	AA036484	94495	tttaagtctttaagctctgtgccaa	AA122502
9288	cggccgtttcctcagattctagagg	W51261	51892	gatgtccttcactggaaggcgcttg	AA036484	94496	tctacctatcatatgctgtctatat	D00570
9289	gccgtttcctcagattctagaggag	W51261	51893	tgtccttcactggaaggcgcttggt	AA036484	94497	atgctgtctatatcatctacctatc	D00570
9290	ccgtttcctcagattctagaggagt	W51261	51894	gtccttcactggaaggcgcttggtc	AA036484	94498	gcatactattatacctggctttaca	D00570
9291	gtttcctcagattctagaggagtag	W51261	51895	ccttcactggaaggcgcttggtcgg	AA036484	94499	tattatacctggctttacatgggtt	D00570
9292	tttcctcagattctagaggagtagg	W51261	51896	cttcactggaaggcgcttggtcgga	AA036484	94500	ctttacatgggttctggagatttga	D00570
9293	tcctcagattctagaggagtaggag	W51261	51897	gagagtcctcgatggccataaatat	AA036484	94501	agcccaagtctttatgtttgcatag	D00570
9294	agaggctcttgccaacggggtcatc	W51261	51898	agagtcctcgatggccataaatatg	AA036484	94502	aaagctcacatgagtcctcatttta	D00570
9295	gctcttgccaacggggtcatcctct	W51261	51899	agtcctcgatggccataaatatgag	AA036484	94503	cacatgagtcctcattttagtatga	D00570
9296	aaaggttctcgcaagcaattgaaga	U19486	51900	gtcctcgatggccataaatatgagg	AA036484	94504	taatatgttatctccttttagactc	D00570
9297	aggttctcgcaagcaattgaagagt	U19486	51901	aatgttctaagatccagttgtagat	AA036484	94505	tagactcttctgtatacttaagctg	D00570
9298	ctcctcatgtcctgaggatggagac	U19486	51902	atgttctaagatccagttgtagatg	AA036484	94506	cttctgtatacttaagctgttgttg	D00570
9299	tcatgtcctgaggatggagacttcc	U19486	51903	gttctaagatccagttgtagatgtc	AA036484	94507	tatacttaagctgttgttgggctct	D00570
9300	gagacttccaggaggtcccagactg	U19486	51904	ttctaagatccagttgtagatgtcc	AA036484	94508	tctatatcatctacctatcatatgt	D00570
9301	cttccaggaggtcccagactgcggt	U19486	51905	ctaagatccagttgtagatgtcctt	AA036484	94509	ttgttgggctctgaaggtggtgttt	D00570
9302	ggaggtcccagactgcggttcacgg	U19486	51906	gttgtagatgtccttcactggaagg	AA036484	94510	acctatcatatgtctgtctactcat	D00570
9303	gtcccagactgcggttcacggattt	U19486	51907	tgtagatgtccttcactggaaggcg	AA036484	94511	tctgtctactcatctatctacctat	D00570
9304	cccagactgcggttcacggatttat	U19486	51908	gtagatgtccttcactggaaggcgc	AA036484	94512	agccttgagctacatttcttgcctt	D00570
9305	cagactgcggttcacggatttattt	U19486	51909	tcctcaacttcagtgactccacaga	X86925	94513	gagctacatttcttgccttccattt	D00570
9306	tgagatttctaaacccgtggttatg	U19486	51910	acttcagtgactccacagaaatcca	X86925	94514	catttcttgccttccatttggttca	D00570
9307	atgagaatatcctctttccaataaa	U19486	51911	tagattccatggaaacttgggacta	X86925	94515	gggagtctcctgtctctgctgtagg	D00570
9308	gttctcgcaagcaattgaagagttt	U19486	51912	gggactattatctacctctataaca	X86925	94516	tctctgctgtagggactcagagatt	D00570
9309	agcattgtccatgaggaggtttatg	U19486	51913	tacctctataacattttagaattct	X86925	94517	catcaagactccaatcctgataaga	U04672
9310	aagagagcatctgcaggggagatag	U19486	51914	ttctgaagtgttcttccctaacatt	X86925	94518	gactccaatcctgataagaagtctc	U04672
9311	gagtcacacagtgtcaatgaagctc	U19486	51915	ccagtgaccacattcagtttctttc	X86925	94519	tgtctgtgttctgtctttgtaaaca	U04672
9312	gtcacacagtgtcaatgaagctcct	U19486	51916	accacattcagtttctttcagtagc	X86925	94520	tgttctgtctttgtaaacagcctat	U04672
9313	gtcaatgaagctcctcatgtcctga	U19486	51917	ttctttcagtagcttcctctcctga	X86925	94521	tagattatgatctctttgggatact	U04672
9314	atgaagctcctcatgtcctgaggat	U19486	51918	cttcctctcctgagaggcagttaca	X86925	94522	atgatctctttgggatactgcctgg	U04672
9315	agctcctcatgtcctgaggatggag	U19486	51919	ctcctgagaggcagttacagcaggc	X86925	94523	ggatactgcctggcttatgatggtg	U04672
9316	gcgcgtctcgcatgagaggattgag	W51271	51920	agcaggctcagttcatccaaacaaa	X86925	94524	tgcctggcttatgatggtgcaccat	U04672

TABLE 1

SEQ ID NO	sequence	DBAxnID
9317	cgcgtctcgcatgagaggattgaga	W51271
9318	tcatggccaatatccaccaggaaaa	W51271
9319	atggccaatatccaccaggaaaacg	W51271
9320	tggccaatatccaccaggaaaacga	W51271
9321	gccaatatccaccaggaaaacgaag	W51271
9322	aaatggagcagcccctgcagaatgg	W51271
9323	gagcagcccctgcagaatggacagg	W51271
9324	agcagcccctgcagaatggacagga	W51271
9325	cagcccctgcagaatggacaggaag	W51271
9326	agcccctgcagaatggacaggaaga	W51271
9327	cccctgcagaatggacaggaagacc	W51271
9328	cgtctcgcatgagaggattgagagg	W51271
9329	gactacgcggcaagggataggccca	W51271
9330	actacgcggcaagggataggcccag	W51271
9331	aatctcatcatggccaatatccacc	W51271
9332	atctcatcatggccaatatccacca	W51271
9333	ctcatcatggccaatatccaccagg	W51271
9334	tcatcatggccaatatccaccagga	W51271
9335	atcatggccaatatccaccaggaaa	W51271
9336	tgttgcgctccttgtcgatgtaccg	W51275
9337	tgcgctccttgtcgatgtaccgccg	W51275
9338	gttccgcatcgatcgaacaaacgcc	W51275
9339	catcgatcgaacaaacgccgtgaat	W51275
9340	tcgaacaaacgccgtgaatcgagca	W51275
9341	aaacgccgtgaatcgagcagaccgg	W51275
9342	gaatcgagcagaccggacctacgac	W51275
9343	tcgagcagaccggacctacgactgc	W51275
9344	ccggacctacgactgcattgtcaga	W51275
9345	gacctacgactgcattgtcagacac	W51275
9346	cgactgcattgtcagacacgtgagc	W51275
9347	ctgcattgtcagacacgtgagctga	W51275
9348	tgtcgatgtaccgccgcacacagtg	W51275
9349	cgatgtaccgccgcacacagtgaat	W51275
9350	ttctacggagattcgtgtgttagac	W51275
9351	gttagacccatgtgattgatgtgtg	W51275
9352	tgattgatgtgtgcccagtgcagat	W51275
9353	atgtgtgcccagtgcagattgctag	W51275
9354	tgtgcccagtgcagattgctagttc	W51275
9355	ttgctagttccgcatcgatcgaaca	W51275
9356	ctgcttctccttctggtgacaggag	M35732
9357	ctccttctggtgacaggagccattg	M35732
9358	aacatctggaccaatatgctggagc	M35732
9359	aatatgctggagccatatcgccaga	M35732
9360	cgccagaacagagcccatgatgtct	M35732
9361	gcccatgatgtcttcagcatacagc	M35732
9362	ttcagcatacagctcccatgtggtc	M35732
9363	atacagctcccatgtggtctcagag	M35732
9364	ctcccatgtggtctcagaggcagtc	M35732
9365	ggcagtccctggatggcatttactt	M35732
9366	catttactctggagctttctttcca	M35732
9367	ctctggagctttctttccaataaag	M35732
9368	ttctcgacgggaagcagaggccata	M35732
9369	agaagttctgagccagaggtatttg	M35732
9370	gtatttgttaggccacaggactcca	M35732
9371	gactccatcggtgacgaagcttctg	M35732
9372	attatctctagcagttctgatggtt	M35732
9373	tctagcagttctgatggttctaata	M35732
9374	agccggttttctcaagatgcactcg	M35732
9375	cagctgaacatctggaccaatatgc	M35732
9376	ttattctaccaagcgacagagattc	W51281
9377	ggtaatcacaaagctagccggcatg	W51281
9378	cctggcagccactgacctggacgca	W51281
9379	agccactgacctggacgcagaggag	W51281
9380	ctctagatctggccaggcatcccgg	W51281
9381	tagatctggccaggcatcccggcgc	W51281
9382	atctggccaggcatcccggcgcttt	W51281
9383	gcgctttggcaccatgagctctctg	W51281
9384	ctttggcaccatgagctctctgtcc	W51281

SEQ ID NO:	sequence	DBAxnID
51921	gtgactccacagaaatccaccatgg	X86925
51922	ccacagaaatccaccatggctgctc	X86925
51923	accatggctgctcaaaacctgcctg	X86925
51924	ctgcctgagcagcatgtttccgaaa	X86925
51925	agaagccagactttccagcagacac	X86925
51926	cagactttccagcagacaccagctg	X86925
51927	cagacaccagctgcagaagtatctt	X86925
51928	gtatcttcaggatctattagtggag	X86925
51929	tggtccctgagtccacgctaaggtg	X17502
51930	taaggtgactgtcccttcttcgtat	X17502
51931	ttgcatcctcaaagcccagcacata	X17502
51932	tactttctgtctctccatgctgaaa	X17502
51933	ctccatgctgaaacccttttcggaag	X17502
51934	tcggaagccaggcctgatttgggca	X17502
51935	gtccatggactcctccagacagcac	X17502
51936	ggactcctccagacagcacagtcag	X17502
51937	ctccagacagcacagtcagttggaa	X17502
51938	aagcgattgccctggaaagatgaaa	X17502
51939	gatgaaatactaaccacatggaagt	X17502
51940	atactaaccacatggaagtgacaga	X17502
51941	ttcgtatcacggtctgcactaatct	X17502
51942	tctgcactaatctcacccaaggtgt	X17502
51943	tcacccaaggtgtctgaggctggtt	X17502
51944	tacgtaactataactggctgctcac	X17502
51945	actataactggctgctcactgcgct	X17502
51946	cctgtgccttctagatctttgcatc	X17502
51947	ccttctagatctttgcatcctcaaa	X17502
51948	agatctttgcatcctcaaagcccag	X17502
51949	gttgcccagttctgagtagaaaact	X60961
51950	tatgctgtgtgtggcggcgcgcacc	X60961
51951	attttctcaggaagcaggaagagaa	X60961
51952	tcaaaatgcaaatctcagcttttg	X60961
51953	aaatgcaaatctcagcttttgata	X60961
51954	tgcaaatctcagcttttgataacc	X60961
51955	gatgaccacaatcaactgtgagaac	X60961
51956	gaccacaatcaactgtgagaactgt	X60961
51957	atttctctgtagtttaatcatgtaa	X60961
51958	tgacctttgtatgtagtttgagtgt	X60961
51959	cattgaaaccgttctctaagatgca	X60961
51960	tgaaaccgttctctaagatgcattt	X60961
51961	agtcagatctccctgagttcgaggc	X60961
51962	tcgaggccaacctggtatatatagt	X60961
51963	cgaattctaggacagccagggctac	X60961
51964	accctgtctctgcaaaccaaaagag	X60961
51965	ctgtctctgcaaaccaaaagagaaa	X60961
51966	tctctgcaaaccaaaagagaaaact	X60961
51967	aaattgtgcattttctcaggaagca	X60961
51968	tgcattttctcaggaagcaggaaga	X60961
51969	atgaaccagatctacgggttcgagg	AA037987
51970	aaggccaagtacacagcccagatgt	AA037987
51971	atcatgcacggaggcctattcagcg	AA037987
51972	atgcacggaggcctattcagcgaag	AA037987
51973	ggcctattcagcgaagatggtgtca	AA037987
51974	ctattcagcgaagatggtgtcactc	AA037987
51975	gatggtgtcactctggatgacatcc	AA037987
51976	gtcactctggatgacatccgaaaga	AA037987
51977	actctggatgacatccgaaagattg	AA037987
51978	ccagactcaggtcccatgtgtgacc	AA037987
51979	gactcaggtcccatgtgtgacctgc	AA037987
51980	tcaggtcccatgtgtgacctgctgt	AA037987
51981	gccaagtacacagcccagatgtatg	AA037987
51982	aagtacacagcccagatgtatgagc	AA037987
51983	tacacagcccagatgtatgagctct	AA037987
51984	tatgagctcttcagcgaggtgttcg	AA037987
51985	ccgctggcgcagtgtatcaatggca	AA037987
51986	aaagtgctgatcatgcacggaggcc	AA037987
51987	gtgctgatcatgcacggaggcctat	AA037987
51988	ctgatcatgcacggaggcctattca	AA037987

SEQ ID NO	sequence	DBAxnID
94525	gatggtgcaccatacctttgatata	U04672
94526	ctagttggcaatcgccaatttcata	U04672
94527	tttcataaaagccatccaccttgta	U04672
94528	agctgtagtaacttctccactgact	U04672
94529	ctggtcaacctctgggtactcacta	U04672
94530	aacctctgggtactcactatcctgt	U04672
94531	tgggtactcactatcctgtccataa	U04672
94532	atcctgtccataaagtggtgctttc	U04672
94533	tgctttctgtgaaagccttaagaaa	U04672
94534	gcatatttggcttctaccagagaaa	U04672
94535	ttggcttctaccagagaaaacatct	U04672
94536	aacatctgtctgtgttctgtctttg	U04672
94537	atatcaaaaattgtccacaagtcct	AA145127
94538	gccgctgctacaggaggcattgcta	AA145127
94539	ttcttcattcggcacaatcccacat	AA145127
94540	ttcattcggcacaatcccacatcta	AA145127
94541	cggcacaatcccacatctaatgtgc	AA145127
94542	cacaatcccacatctaatgtgctct	AA145127
94543	aatcccacatctaatgtgctcttcc	AA145127
94544	cccacatctaatgtgctcttccttg	AA145127
94545	tctaatgtgctcttccttggcaggg	AA145127
94546	aatgtgctcttccttggcagggttt	AA145127
94547	tgttccccatagaagaaggagactt	AA145127
94548	gcttagagtttcattccctgagatt	AA145127
94549	ggcattgctacattctgtatgttgt	AA145127
94550	attgctacattctgtatgttgttgc	AA145127
94551	gaattcacagtggaccatccgttca	AA145127
94552	acagtggaccatccgttcattttct	AA145127
94553	gtggaccatccgttcattttcttca	AA145127
94554	catccgttcattttcttcattcggc	AA145127
94555	ttcattttcttcattcggcacaatc	AA145127
94556	attttcttcattcggcacaatccca	AA145127
94557	cagctgccacgagcagctcgccaag	AA120298
94558	agctgccacgagcagctcgccaaga	AA120298
94559	gattcgtttcttgcagacataaatt	AA120298
94560	attcgtttcttgcagacataaatta	AA120298
94561	ttcgtttcttgcagacataaattac	AA120298
94562	tcgtttcttgcagacataaattact	AA120298
94563	cgtttcttgcagacataaattactg	AA120298
94564	gtttcttgcagacataaattactgg	AA120298
94565	aaatgttgccaagactgctaataag	AA120298
94566	aatgttgccaagactgctaataagg	AA120298
94567	atgttgccaagactgctaataagga	AA120298
94568	tgttgccaagactgctaataaggac	AA120298
94569	gctgccacgagcagctcgccaagaa	AA120298
94570	ctgccacgagcagctcgccaagaag	AA120298
94571	tgccacgagcagctcgccaagaagg	AA120298
94572	gccacgagcagctcgccaagaagga	AA120298
94573	ttcagattcgtttcttgcagacata	AA120298
94574	tcagattcgtttcttgcagacataa	AA120298
94575	cagattcgtttcttgcagacataaa	AA120298
94576	agattcgtttcttgcagacataaat	AA120298
94577	cagatatcccacagcgatggtgaat	AA122710
94578	atatcccacagcgatggtgaatgtc	AA122710
94579	tctgctggtggacaagcttgaacag	AA122710
94580	gattcggaccaagccatcaaccctt	AA122710
94581	ccaagccatcaacccttaggaatg	AA122710
94582	caagccatcaacccttaggaatgc	AA122710
94583	gccatcaacccttaggaatgcggg	AA122710
94584	ttaaggatccattcgggaggccata	AA122710
94585	aaggatccattcgggaggccataga	AA122710
94586	aggatccattcgggaggccatagag	AA122710
94587	gatccattcgggaggccatagagaa	AA122710
94588	atccattcgggaggccatagagaag	AA122710
94589	atcccacagcgatggtgaatgtctc	AA122710
94590	tgaatgtctcaaaaccttgcaagag	AA122710
94591	gaatgtctcaaaaccttgcaagagg	AA122710
94592	atgtctcaaaaccttgcaagaggaa	AA122710

TABLE 1

SEQ ID NO	sequence	DBAxnID
9385	tggcaccatgagctctctgtccggg	W51281
9386	gagctctctgtccggggcagacgat	W51281
9387	ctctctgtccggggcagacgatact	W51281
9388	cacaaagctagccggcatggaggaa	W51281
9389	aaagctagccggcatggaggaagag	W51281
9390	gctggcattctccaccaaagaggag	W51281
9391	ctccaccaaagaggagcagcagcag	W51281
9392	gcagcagcagctcctgcagaaggtc	W51281
9393	gcagctcctgcagaaggtcctggca	W51281
9394	gctcctgcagaaggtcctggcagcc	W51281
9395	gaaggtcctggcagccactgacctg	W51281
9396	cacactcatcatgcagtagacatta	M61737
9397	cccatcataccttggcctgaatcaa	M61737
9398	taaagccggcatgccagggatgcag	M61737
9399	cggcatgccagggatgcagatctgg	M61737
9400	cctcacctgtgccagggatgcagat	M61737
9401	agtaacctaaaagctcatagattca	M61737
9402	gctcatagattcaccaagctggact	M61737
9403	agattcaccaagctggacttgggtg	M61737
9404	gaaaccgcggcttagcctctcattg	M61737
9405	ctcattgcctgaatggacacagttc	M61737
9406	cctgttctcctgggaaaggcatgca	M61737
9407	tgttctcatttttccacgaatgagt	M61737
9408	gaatcaagacaaccaagcgagcagc	M61737
9409	agacaaccaagcgagcagcatgcca	M61737
9410	ccaagcgagcagcatgccacagcac	M61737
9411	catgccacagcaccaactatgtcta	M61737
9412	acagcaccaactatgtctatgacca	M61737
9413	ccaactatgtctatgaccatggtgc	M61737
9414	tggttagcactctgtagtagaagaa	M61737
9415	ccagctgcacatgatcatgaggtgt	M61737
9416	ggaactgtcatcctcttgtgcagaa	W51101
9417	gtcatcctcttgtgcagaatgtaca	W51101
9418	gccaatggcctcatcaacgagatca	W51101
9419	ggcctcatcaacgagatcaagccac	W51101
9420	atcaacgagatcaagccacagtcgg	W51101
9421	gagatcaagccacagtcggtgtgtg	W51101
9422	ctgcacctcatcaagctagggatgg	W51101
9423	ctcatcaagctagggatggagaacg	W51101
9424	gatgacactgcagttcagtatgcca	W51101
9425	actgcagttcagtatgccattggtc	W51101
9426	gttcagtatgccattggtcgctctg	W51101
9427	tatgccattggtcgctctgacacgg	W51101
9428	aaggaccgccagcagctctacaagc	W51101
9429	cgctctgacacggttgcccctggca	W51101
9430	cagctctacaagctgatcatcagcc	W51101
9431	tacaagctgatcatcagccagctgc	W51101
9432	ctgatcatcagccagctgctctatg	W51101
9433	atcagccagctgctctatgacggat	W51101
9434	cagctgctctatgacggatacatta	W51101
9435	tacattagcatcgccaatggcctca	W51101
9436	agcatcgccaatggcctcatcaacg	W51101
9437	caacaatgcctttgccaagctgagg	M81077
9438	caatgcctttgccaagctgaggaaa	M81077
9439	gcaaagcctgcatcaaacaggagtc	M81077
9440	aagcctgcatcaaacaggagtcgct	M81077
9441	cctgcatcaaacaggagtcgctgct	M81077
9442	gcatcaaacaggagtcgctgctcag	M81077
9443	aacaggagtcgctgctcagggaaac	M81077
9444	aggagtcgctgctcagggaaacatt	M81077
9445	agtcgctgctcagggaaacattctg	M81077
9446	ccgcctgccagatgaggatgacaga	M81077
9447	tgacagaactctactgaatgactac	M81077
9448	cagaactctactgaatgactaccga	M81077
9449	tgcctttgccaagctgaggaaactt	M81077
9450	ctttgccaagctgaggaaacttatc	M81077
9451	gcttcgcttggcaatgaggtatatc	M81077
9452	gtatatcaacttcttggtcaaggtc	M81077

SEQ ID NO:	sequence	DBAxnID
51989	acattccccaaatggaatctgttga	V00740
51990	aagctcccatgaaggtatctgacat	V00740
51991	atgctccaaaatacttccagagtat	V00740
51992	acttccagagtatcttctagtcttg	V00740
51993	agagtatcttctagtcttgtacatt	V00740
51994	agtcttgtacatttccattgaatgt	V00740
51995	gtacatttccattgaatgtgttagg	V00740
51996	gtttcatctctgcagggttgatgac	V00740
51997	tctctgcagggttgatgactattga	V00740
51998	ctattgagactgtcttcacttctgc	V00740
51999	agactgtcttcacttctgctcccat	V00740
52000	tgtctctgaaccacattcttttcaa	V00740
52001	tcatttctcagcaacaatacaacca	V00740
52002	acagcaagatcacctggccacagtt	V00740
52003	agatcacctggccacagtttgtaaa	V00740
52004	cctggccacagtttgtaaagcttct	V00740
52005	ttgtaaagcttctccatcaatacca	V00740
52006	agcttctccatcaataccagaaaac	V00740
52007	tccatcaataccagaaaaccatgac	V00740
52008	gctgtaattacttctcattaccaac	V00740
52009	ctcgtgcggcacgagggcgttcttg	AA037997
52010	gcgttcttgctgtggatgaagctca	AA037997
52011	cactttcagagttctcagcggtctt	AA037997
52012	cagagttctcagcggtcttccgtct	AA037997
52013	tcagcggtcttccgtctcctgctca	AA037997
52014	tcaccggaacgcccatccagaacag	AA037997
52015	agaacagcctccgggagctctactc	AA037997
52016	gtggagcctgacctcttctggagag	AA037997
52017	tggagcctgacctcttctggagaga	AA037997
52018	ggagcctgacctcttctggagagaa	AA037997
52019	gagcctgacctcttctggagagaac	AA037997
52020	agcctgacctcttctggagagaaca	AA037997
52021	accagagctccctgctgcacaggac	AA037997
52022	cagagctccctgctgcacaggacac	AA037997
52023	gagctccctgctgcacaggacactt	AA037997
52024	tccctgctgcacaggacactttcag	AA037997
52025	cctgctgcacaggacactttcagag	AA037997
52026	tgctgcacaggacactttcagagtt	AA037997
52027	gcacaggacactttcagagttctca	AA037997
52028	gacactttcagagttctcagcggtc	AA037997
52029	cgatcacaacgtgcattgtgcttcc	X12507
52030	caacgtgcattgtgcttccttgaga	X12507
52031	attagatgttctctatcatttaata	X12507
52032	taaactggcatatctgcctttattg	X12507
52033	gtcattagcctgactagagaggcct	X12507
52034	tgaactggaccctgttgctaagcct	X12507
52035	ggaccctgttgctaagcctcagcaa	X12507
52036	tgttgctaagcctcagcaagcaatc	X12507
52037	taagcctcagcaagcaatcatccta	X12507
52038	tcagcaagcaatcatcctaggtagg	X12507
52039	attgccatattgcacatgtcttaat	X12507
52040	atattgcacatgtcttaatgaagtt	X12507
52041	gcattgtgcttccttgagaatattt	X12507
52042	tgcttccttgagaatatttgaatct	X12507
52043	tgaatcttgtctcaatgctcataac	X12507
52044	ttgtctcaatgctcataacggatca	X12507
52045	gcgactttagtcctgagctcttgtg	X12507
52046	ttagtcctgagctcttgtgaggaaa	X12507
52047	tggctttatcctctttagagttaga	X12507
52048	tatcctctttagagttagactgttg	X12507
52049	cgcagagcgtccgcactaacaattg	AA038019
52050	agagcgtccgcactaacaattgcga	AA038019
52051	ctgtataccatccgatgacaatccc	AA038019
52052	tataccatccgatgacaatcccaca	AA038019
52053	accatccgatgacaatcccacagtt	AA038019
52054	cgatgacaatcccacagttgccatc	AA038019
52055	caatcccacagttgccatctaggtt	AA038019
52056	agttgccatctaggttcctgagcta	AA038019

SEQ ID NO	sequence	DBAxnID
94593	tgtctcaaaaccttgcaagaggaaa	AA122710
94594	ctcaaaaccttgcaagaggaaatcg	AA122710
94595	gaagctctgctggtggacaagcttg	AA122710
94596	agctctgctggtggacaagcttgaa	AA122710
94597	tggtctcatcctcaactcaaccaca	W67046
94598	ctcaaccacaatcatggctcagatg	W67046
94599	ctgccttaagtacagccagaagaaa	W67046
94600	ctacagtattgtccgaggctatagg	W67046
94601	cagtattgtccgaggctataggaag	W67046
94602	tattgtccgaggctataggaagcaa	W67046
94603	ccggaagcactctaagcctgagcta	W67046
94604	gaagcactctaagcctgagctatgt	W67046
94605	gcactctaagcctgagctatgtgca	W67046
94606	ctctaagcctgagctatgtgcaaac	W67046
94607	tgagctatgtgcaaaccctgaggaa	W67046
94608	gctatgtgcaaaccctgaggaaggc	W67046
94609	aaccacaatcatggctcagatgatg	W67046
94610	cacaatcatggctcagatgatgact	W67046
94611	aatcatggctcagatgatgactctg	W67046
94612	gatgactctgagcctccttagcctg	W67046
94613	tctgagcctccttagcctggtcctg	W67046
94614	cccctggacccaaggcagtgatgga	W67046
94615	acaggactgctgccttaagtacagc	W67046
94616	ggactgctgccttaagtacagccag	W67046
94617	cacagctgcccctctggagaagtttg	W08384
94618	agctgccctctggagaagtttgcgg	W08384
94619	agccccgctggaaatgcctgatgtc	W08384
94620	cccgctggaaatgcctgatgtcaag	W08384
94621	aatgcctgatgtcaagcgggtttca	W08384
94622	ttcaaaggaagcctaccagttagcg	W08384
94623	agcctaccagttagcgcacctgcat	W08384
94624	ctaccagttagcgcacctgcatgaa	W08384
94625	ccagttagcgcacctgcatgaaaaa	W08384
94626	agaagctgctgatcccaggctaagg	W08384
94627	tgatcccaggctaaggggcgaagga	W08384
94628	aacagcactcacctgttcctgcctt	W08384
94629	tgccctctggagaagtttgcggacg	W08384
94630	gtactggacccggtgatctcccagg	W08384
94631	ctggacccggtgatctcccaggact	W08384
94632	tcccaggactgggccacggagtgta	W08384
94633	atggccacaagcagccaccaaggac	W08384
94634	gccacaagcagccaccaaggacgga	W08384
94635	acaagcagccaccaaggacggaatt	W08384
94636	taaagccccgctggaaatgcctgat	W08384
94637	gcagtcccctgcaagttccatgtaa	U09816
94638	ccctgcaagttccatgtaaggaatg	U09816
94639	tccttggtgcctggcctcaaagagg	U09816
94640	ggctcagcctgcactagagcaggtc	U09816
94641	gcctgcactagagcaggtctacatg	U09816
94642	actagagcaggtctacatggcttct	U09816
94643	tccgagccatcaccaccagagtaga	U09816
94644	tggagtagatcccacctagcagcca	U09816
94645	gcagccaccacgtggaacaggggtc	U09816
94646	cccacatcaggttgcaccatgacaa	U09816
94647	tcaggttgcaccatgacaacttcct	U09816
94648	atgacaacttcctgagcctcctcgg	U09816
94649	atatacttactatgcaggccaaagg	U09816
94650	cacggactcacccagggacataatc	U09816
94651	cttttcctcacatctgttcatcttc	U09816
94652	ctcacatctgttcatcttctcaatc	U09816
94653	tctgttcatcttctcaatctcaagt	U09816
94654	catcttctcaatctcaagttatctg	U09816
94655	ctcaagttatctggccgcatctctt	U09816
94656	gtcaagtccttggtgcctggcctca	U09816
94657	accccagagaccttctctaccatat	W08392
94658	cagagaccttctctaccatatcagt	W08392
94659	agaagcgccattacctcttcgatgt	W08392
94660	aagcgccattacctcttcgatgtgc	W08392

TABLE 1

SEQ ID NO	sequence	DBAxnID
9453	tatcaacttcttggtcaaggtcttg	M81077
9454	cttcttggtcaaggtcttgggagag	M81077
9455	cttggtcaaggtcttgggagagcaa	M81077
9456	agagcaaagcctgcatcaaacagga	M81077
9457	ttccacgaatccaaccagtgtgcct	M18776
9458	ttcactccattacttcctatcctgg	M18776
9459	gaacagtcaagagtcccagggcagg	M18776
9460	ttgtgatcgctagcctcccagagct	M18776
9461	cagagctcagctgccattaagtccc	M18776
9462	tcagctgccattaagtccccatgca	M18776
9463	gccattaagtccccatgcacgtaat	M18776
9464	aagtccccatgcacgtaatcagtct	M18776
9465	cctccggtcccatggaaaccatgct	M18776
9466	tggaaaccatgctgcctgccctgct	M18776
9467	cgtcttcgccctgttagcttgtagt	M18776
9468	ctgggcttcaccagagtgactatga	M18776
9469	ccattacttcctatcctggatggga	M18776
9470	cttcctatcctggatgggaactggt	M18776
9471	ttcttttatctaagtggatgcctct	M18776
9472	tgcctctaggcctgactccttgtgt	M18776
9473	taggcctgactccttgtgttgagct	M18776
9474	cagccaagtcaggtgccaatgtctt	M18776
9475	agtcaggtgccaatgtcttggcatc	M18776
9476	gtgccaatgtcttggcatcagtaag	M18776
9477	gttgtccaggttgcctccatcccac	M32299
9478	aggactctaatgatcaccgcgtgcc	M32299
9479	gatgcaattcttctcaagccatagt	M32299
9480	attcttctcaagccatagtgactgt	M32299
9481	ctcaagccatagtgactgtactgag	M32299
9482	tgactgtactgaggctggtggtacc	M32299
9483	ggtctggatcttttgcttagaactc	M32299
9484	ttgcttagaactctgactaatggtt	M32299
9485	aatggttcacaacacactccatgcg	M32299
9486	tcacaacacactccatgcgtatctg	M32299
9487	cacactccatgcgtatctgtagtga	M32299
9488	ccatgcgtatctgtagtgatgggag	M32299
9489	ctaatgatcaccgcgtgccccaaga	M32299
9490	ccccttcagccagtgatatgtgatg	M32299
9491	ggcttcctctggcaaaggcatgaag	M32299
9492	tggtccttccagtgcagtgattctt	M32299
9493	ttccagtgcagtgattcttgctggt	M32299
9494	gattcttgctggtcctaaccaaggc	M32299
9495	tgctggtcctaaccaaggcttgagt	M32299
9496	tcctaaccaaggcttgagtgagata	M32299
9497	tcctctcagccagactttgagatgt	W15826
9498	atgttccagctggaggccatgctgg	W15826
9499	attcctgcactagtgcacctgaagg	W15826
9500	gtatccgggtatttcttcaggctag	W15826
9501	tatttcttcaggctagattgattgt	W15826
9502	ttcttcaggctagattgattgttgg	W15826
9503	ttggaattcagctcaactataatga	W15826
9504	gaattcagctcaactataatgacaa	W15826
9505	acaacgaggacggtcaagtgtatgg	W15826
9506	atggctctactgccgggaaggtgat	W15826
9507	gctctactgccgggaaggtgatggt	W15826
9508	ctactgccgggaaggtgatggtagc	W15826
9509	ttccagctggaggccatgctggctt	W15826
9510	cagctggaggccatgctggcttact	W15826
9511	gccatgctggcttactgattcttgc	W15826
9512	atgctggcttactgattcttgcctt	W15826
9513	gcttactgattcttgccttcttggg	W15826
9514	atcatggtccagaagttggaaaaca	W15826
9515	ttggaaaacattcctgcactagtgc	W15826
9516	aacattcctgcactagtgcacctga	W15826
9517	cacttgagtgtcatccttgcgccgg	J04492
9518	tacgagaatcgactcacagggcgcc	J04492
9519	ttgctttcagcctccaagcttctgc	J04492
9520	tccaagcttctgctagtctatggca	J04492

SEQ ID NO:	sequence	DBAxnID
52057	tgccatctaggttcctgagctatct	AA038019
52058	catctaggttcctgagctatctgaa	AA038019
52059	ctaggttcctgagctatctgaagag	AA038019
52060	tcctgagctatctgaagaggccctg	AA038019
52061	gcgtccgcactaacaattgcgatcc	AA038019
52062	tccgcactaacaattgcgatcctcg	AA038019
52063	ctaacaattgcgatcctcgttgcga	AA038019
52064	acaattgcgatcctcgttgcgaggt	AA038019
52065	ctcgttgcgaggtcgtcagctacct	AA038019
52066	aggtcgtcagctaccttgtttatag	AA038019
52067	tcagctaccttgtttatagtacaca	AA038019
52068	ttcctgtataccatccgatgacaat	AA038019
52069	ctaagcttgtggtccaccagaggtg	X04573
52070	cccaaaacgtcggcaatggctatga	X04573
52071	ctgtgaagtccagcatggtgtgcgc	X04573
52072	attgccgggcatctaatggccagtg	X04573
52073	gggcatctaatggccagtggcaggt	X04573
52074	ctaatggccagtggcaggtgcatgg	X04573
52075	tgcatggcatcgtgagcttcggctc	X04573
52076	tcttcaccagggtctccaactacat	X04573
52077	ttgactggatcaactcggtgatggc	X04573
52078	ggatcaactcggtgatggcaaggaa	X04573
52079	tgaagacattactgccactgtcccc	X04573
52080	cattactgccactgtccccctggaa	X04573
52081	gctatgacattgccttaatcaaact	X04573
52082	acattgccttaatcaaactggccag	X04573
52083	ccttaatcaaactggccagcccagt	X04573
52084	tcaaactggccagcccagtgaccct	X04573
52085	agaacatccagacagcttgcctccc	X04573
52086	ctggcaccattctcccgagaaacta	X04573
52087	gcctgctgcagaccaatgggaacag	X04573
52088	tggactatgccacctgctccagcgc	X04573
52089	tggatacgacagactcctccagctt	AA038095
52090	actcctccagcttcaagacacttaa	AA038095
52091	gctgtttactacactgggaaccagt	AA038095
52092	tgccctgaccactggttacctgctg	AA038095
52093	gaccactggttacctgctgaatagg	AA038095
52094	cactggttacctgctgaataggcag	AA038095
52095	tggttacctgctgaataggcagaag	AA038095
52096	ggtatctgctgatgcccgggaacag	AA038095
52097	tgctgatgcccgggaacagcacaag	AA038095
52098	ggaacagcacaagctctttccccca	AA038095
52099	acagcacaagctctttcccccaagt	AA038095
52100	acataacaactgcatggctgagtgc	AA038095
52101	gcttcaagacacttaaccaagaaga	AA038095
52102	caccatctatgccaaactccgaaac	AA038095
52103	tcaagacacttaaccaagaagaagg	AA038095
52104	cagtgccttctcaaagttgctaact	AA038095
52105	tgccttctcaaagttgctaactggc	AA038095
52106	aaagttgctaactggccgaaatgca	AA038095
52107	gctaactggccgaaatgcatctctg	AA038095
52108	aaatgcatctctgctgtttactaca	AA038095
52109	atctctgctgtttactacactggga	AA038095
52110	catcaatggcttcatccagtccaag	AA038079
52111	caatggcttcatccagtccaagagc	AA038079
52112	ggtgaccccactgattggcagccct	AA038079
52113	gccctcctgtggtgtgataaagagg	AA038079
52114	gttctctgggctgctacatggaagt	AA038079
52115	ctctgggctgctacatggaagtccc	AA038079
52116	tggaagtcccaagaccacaccttct	AA038079
52117	aagtcccaagaccacaccttctgct	AA038079
52118	tgctcctgctgcttccacagagact	AA038079
52119	tgctgcttccacagagactctgact	AA038079
52120	tgcttccacagagactctgactccc	AA038079
52121	caccccctgagcggaatgagttggtc	AA038079
52122	tggcttcatccagtccaagagcact	AA038079
52123	cttcatccagtccaagagcactggc	AA038079
52124	ccagtccaagagcactggcagagag	AA038079

SEQ ID NO:	sequence	DBAxnID
94661	gcgccattacctcttcgatgtgcag	W08392
94662	cattacctcttcgatgtgcagagga	W08392
94663	acctcttcgatgtgcagaggaataa	W08392
94664	ctcttcgatgtgcagaggaataaca	W08392
94665	taacattgccctggccttggaggtc	W08392
94666	attgccctggccttggaggtcactt	W08392
94667	tgccctggccttggaggtcacttac	W08392
94668	taccgggaacggctacataaagcat	W08392
94669	gagaccttctctaccatatcagtag	W08392
94670	gaccttctctaccatatcagtagta	W08392
94671	aaatccaggatgcaatcgacatgga	W08392
94672	aaggcacagcaggcactggttcaga	W08392
94673	ggcacagcaggcactggttcagaag	W08392
94674	cacagcaggcactggttcagaagcg	W08392
94675	cagcaggcactggttcagaagcgcc	W08392
94676	tcagaagcgccattacctcttcgat	W08392
94677	aattcggatccatgcatctccagta	AA123700
94678	attcggatccatgcatctccagtat	AA123700
94679	tgccttctccgcgttcttgctgact	AA123700
94680	gccttctccgcgttcttgctgactg	AA123700
94681	ccttctccgcgttcttgctgactgg	AA123700
94682	cttctccgcgttcttgctgactggg	AA123700
94683	ttctccgcgttcttgctgactgggg	AA123700
94684	ccctgcggggcacaggtgctgctca	AA123700
94685	cctgcggggcacaggtgctgctcat	AA123700
94686	ctgcggggcacaggtgctgctcatt	AA123700
94687	tggaatcaattccgacacccggaga	AA123700
94688	ttcggatccatgcatctccagtatg	AA123700
94689	tcggatccatgcatctccagtatgt	AA123700
94690	ccgtgtatgccttctccgcgttctt	AA123700
94691	cgtgtatgccttctccgcgttcttg	AA123700
94692	gtgtatgccttctccgcgttcttgc	AA123700
94693	tgtatgccttctccgcgttcttgct	AA123700
94694	tatgccttctccgcgttcttgctga	AA123700
94695	atgccttctccgcgttcttgctgac	AA123700
94696	catgttactgtgtctctgtgactag	AA124405
94697	gttactgtgtctctgtgactagtat	AA124405
94698	tctttggctttctgaatatgatact	AA124405
94699	aggagaccagcttacacagtccgtc	AA124405
94700	agaccagcttacacagtccgtcaaa	AA124405
94701	ccagcttacacagtccgtcaaatac	AA124405
94702	gcttacacagtccgtcaaatacgtc	AA124405
94703	acagtccgtcaaatacgtcagcttc	AA124405
94704	gtccgtcaaatacgtcagcttccca	AA124405
94705	cgtcaaatacgtcagcttcccacag	AA124405
94706	caaatacgtcagcttcccacagcca	AA124405
94707	cacccacttctggaatgtaactaag	AA124405
94708	actgtgtctctgtgactagtatggg	AA124405
94709	tgactagtatgggctccctgaatgt	AA124405
94710	ctagtatgggctccctgaatgtatc	AA124405
94711	gtatgggctccctgaatgtatccgt	AA124405
94712	gctccctgaatgtatccgtgatctt	AA124405
94713	atgtatccgtgatctttggctttct	AA124405
94714	ccgtgatctttggctttctgaatat	AA124405
94715	tgatctttggctttctgaatatgat	AA124405
94716	taagactggggccccagcattcgcc	AA124453
94717	aagactggggccccagcattcgcct	AA124453
94718	agtgcctggacatcagctccctgtt	AA124453
94719	tgcctggacatcagctccctgttct	AA124453
94720	gcctggacatcagctccctgttctt	AA124453
94721	cctggacatcagctccctgttcttc	AA124453
94722	ctggacatcagctccctgttcttca	AA124453
94723	tggacatcagctccctgttcttcag	AA124453
94724	ggacatcagctccctgttcttcagc	AA124453
94725	gacatcagctccctgttcttcagca	AA124453
94726	acatcagctccctgttcttcagcat	AA124453
94727	catcagctccctgttcttcagcatc	AA124453
94728	cctccagcggcaagtgcctggacat	AA124453

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
9521	aagcttctgctagtctatggcagca	J04492	52125	gtccaagagcactggcagagagccc	AA038079	94729	ctccagcggcaagtgcctggacatc	AA124453
9522	ctgctagtctatggcagcatcaagg	J04492	52126	agctccggtgccttatcagaactac	AA038079	94730	tccagcggcaagtgcctggacatca	AA124453
9523	gtctatggcagcatcaaggctggta	J04492	52127	tccggtgccttatcagaactactat	AA038079	94731	cagcggcaagtgcctggacatcagc	AA124453
9524	agcatcaaggctggtatttgctacg	J04492	52128	ggtgccttatcagaactactatgac	AA038079	94732	ggcaagtgcctggacatcagctccc	AA124453
9525	ggtatttgctacggctgaccgctac	J04492	52129	ggaggtgaccccactgattggcagc	AA038079	94733	gcaagtgcctggacatcagctccct	AA124453
9526	atttgctacggctgaccgctacgcc	J04492	52130	ttcaaggcaacgttgcccgaggctg	AA038082	94734	caagtgcctggacatcagctccctg	AA124453
9527	tgaccgctacgccgccgcaataagg	J04492	52131	ggcccatcctgggcatccaaggaga	AA038082	94735	aagtgcctggacatcagctccctgt	AA124453
9528	tcgactttgattcttgccggtacgt	J04492	52132	gaaagctggtacccagccgtgacca	AA038082	94736	cgcggctaacttggcatctgatcca	AA124470
9529	cggacctatggcgtcgatccttatt	J04492	52133	tggtacccagccgtgaccagacact	AA038082	94737	ggctaacttggcatctgatccaccc	AA124470
9530	tatggcgtcgatccttattacctta	J04492	52134	tacccagccgtgaccagacactgca	AA038082	94738	agacaccttggaacctcctatacag	AA124470
9531	gtcgatccttattaccttatcctgg	J04492	52135	ccagccgtgaccagacactgcagga	AA038082	94739	caccttggaacctcctatacaggca	AA124470
9532	tattaccttatcctggcgccaagat	J04492	52136	gccgtgaccagacactgcaggagga	AA038082	94740	cttggaacctcctatacaggcaaca	AA124470
9533	ataacgcggcgatctccactttaag	J04492	52137	gtgaccagacactgcaggaggagct	AA038082	94741	ggaacctcctatacaggcaacaggc	AA124470
9534	tctccactttaagaacctggccgcg	J04492	52138	agacactgcaggaggagctggcccg	AA038082	94742	ggcaacaggccagcgtaggggacaa	AA124470
9535	aattagttcttgctttcagcctcca	J04492	52139	agctggcccggcagcaggtgaacga	AA038082	94743	gactgcagcagctgtgacagggctg	AA124470
9536	ttcttgctttcagcctccaagcttc	J04492	52140	agaggctccggcgacagtttgcagc	AA038082	94744	agcagctgtgacagggctgtgacag	AA124470
9537	ggagccagtgccactcaccatcctg	W51309	52141	gacagtttgcagcccaggctaatgc	AA038082	94745	cgagaatgaccctgactgaagcgca	AA124470
9538	cagccatcgccagggaccctgttgc	W51309	52142	ccatcctgggcatccaaggagagat	AA038082	94746	gaatgaccctgactgaagcgcaggg	AA124470
9539	cttcctgggaacacccagcagacgc	W51309	52143	tcctgggcatccaaggagagatcca	AA038082	94747	ccctgactgaagcgcagggcattcg	AA124470
9540	tcctgggaacacccagcagacgcca	W51309	52144	agatttgccaaacatacggactacg	AA038082	94748	taacttggcatctgatccacccatt	AA124470
9541	ctgggaacacccagcagacgccatc	W51309	52145	acatcaccctcagttcgcaggacat	AA038082	94749	cttggcatctgatccacccattcgt	AA124470
9542	gggaacacccagcagacgccatcta	W51309	52146	tcaccctcagttcgcaggacatcaa	AA038082	94750	atctgatccacccattcgtttatta	AA124470
9543	agcagacgccatctagcctgccact	W51309	52147	ccctcagttcgcaggacatcaacaa	AA038082	94751	tgatccacccattcgtttattagca	AA124470
9544	cagacgccatctagcctgccactgg	W51309	52148	tcagttcgcaggacatcaacaataa	AA038082	94752	tccacccattcgtttattagcatgg	AA124470
9545	gacgccatctagcctgccactgggc	W51309	52149	gttcgcaggacatcaacaataagtg	AA038082	94753	tttattagcatggttcaagagagct	AA124470
9546	atctagcctgccactgggctccacg	W51309	52150	ttagctgcagaacttgcctctctcc	X53247	94754	gagagctccagacaccttggaacct	AA124470
9547	tgccactgggctccacgccaggaat	W51309	52151	catcctatttgggaggttcctatgt	X53247	94755	agctccagacaccttggaacctcct	AA124470
9548	ttacacacccaggtccagagctcgg	W51309	52152	cactagtgtgttcgccatgttggga	X53247	94756	atggatctcctgaaggtgctgtccc	D16497
9549	gccatcgccagggaccctgttgcct	W51309	52153	agaacaaatctacttcagtaaatct	X53247	94757	aaggtgctgtcccagatgattctgt	D16497
9550	acctgtgcagctcagccctgctctg	W51309	52154	aatctacttcagtaaatctctcatc	X53247	94758	catatctcaagctgctttgggcaca	D16497
9551	ctgtgcagctcagccctgctctgtg	W51309	52155	cttcagtaaatctctcatctgccca	X53247	94759	tcaagctgctttgggcacaagatag	D16497
9552	cctgctctgtgctggggtactcaag	W51309	52156	tctcatctgcccagccaagtgaggg	X53247	94760	gaccggatcggatccgtcagtcgtt	D16497
9553	tgctctgtgctggggtactcaagcc	W51309	52157	gtctctcgagacctcctactctact	X53247	94761	agtcgtttgggctgtaacgcactga	D16497
9554	ctctgtgctggggtactcaagcctg	W51309	52158	ctcctactctacttgaagggtagag	X53247	94762	gaagacctcctggctgcaggagact	D16497
9555	gtactcaagcctgccttccggcttc	W51309	52159	ggtagagctattccttcttgggact	X53247	94763	ctcctggctgcaggagactccagtt	D16497
9556	tccggcttctcaggaacccttcctg	W51309	52160	acccgatccatagcaaatggaaaat	X53247	94764	tccagtttctgactctgcctgggtc	D16497
9557	gcttttgctaccgcgagaagaaggt	W51315	52161	tacagctctcttgcttacacagaaa	X53247	94765	caagactgtttcttatcttggagca	D16497
9558	cttttgctaccgcgagaagaaggtg	W51315	52162	atcagggacccccaagacgcagcca	X53247	94766	ttatcttggagcacaaacttgccac	D16497
9559	gatccgcgaacatggcctcaggagt	W51315	52163	gcagccatccatcctcatacagagt	X53247	94767	ttgccacaacataataaacatagcg	D16497
9560	agatgtcggcgttaccataactgat	W51315	52164	atccatcctcatacagagtcatatg	X53247	94768	cactcctatcctctgggaagtccta	D16497
9561	atgtcggcgttaccataactgatcc	W51315	52165	acagagtcatatgcccacctgctcc	X53247	94769	agtcctagccagtctccagagcaat	D16497
9562	tgtcggcgttaccataactgatcct	W51315	52166	ttcctgacacctctctcgaagcttc	X53247	94770	agccagtctccagagcaattcaaga	D16497
9563	tcggcgttaccataactgatccttt	W51315	52167	ctctcgaagcttccggtctccatgg	X53247	94771	tctccagagcaattcaagatgcaga	D16497
9564	ggcgttaccataactgatcctttca	W51315	52168	aagcttccggtctccatggcctgcc	X53247	94772	aagctgctggagctgataagagaaa	D16497
9565	gcgttaccataactgatcctttcaa	W51315	52169	tccatggcctgccactagtgtgttc	X53247	94773	atggcccagagacagctcttgaagg	D16497
9566	cgttaccataactgatcctttcaag	W51315	52170	tatgcagttggtgtactggtgcacc	AA037962	94774	agagtccttcggtctcaaggcagca	D16497
9567	gttaccataactgatcctttcaagc	W51315	52171	ctaccagcctgccactggtggtcgt	AA037962	94775	cgggtccagcagagacctcaaaatt	D16497
9568	ttaccataactgatcctttcaagca	W51315	52172	ttattgctctgacgtccttgacgac	AA037962	94776	gaaacacctcttaaagcctcaggat	AA123821
9569	ttttgctaccgcgagaagaaggtgc	W51315	52173	attgctctgacgtccttgacgacat	AA037962	94777	tcaattcagcgttttcaaaacacag	AA123821
9570	aaggtgcacagactttccgccaggt	W51315	52174	tgctctgacgtccttgacgacatga	AA037962	94778	cccgcctggaatcctgctgcagaag	AA123821
9571	gtgcacagactttccgccaggttcc	W51315	52175	ctgacgtccttgacgacatgactgg	AA037962	94779	gcctggaatcctgctgcagaagatc	AA123821
9572	gcacagactttccgccaggttccta	W51315	52176	gacgtccttgacgacatgactggcc	AA037962	94780	aatcctgctgcagaagatcagtgct	AA123821
9573	cacagactttccgccaggttcctag	W51315	52177	cgtccttgacgacatgactggccta	AA037962	94781	gatcagtgctttgaccggtgccatc	AA123821
9574	tcccgatccgcgaacatggcctcag	W51315	52178	tccttgacgacatgactggcctaga	AA037962	94782	gaccggtgccatcgacttggccaga	AA123821
9575	cccgatccgcgaacatggcctcagg	W51315	52179	tgacgacatgactggcctagagact	AA037962	94783	cggtgccatcgacttggccagaagc	AA123821
9576	cgatccgcgaacatggcctcaggag	W51315	52180	gacatgactggcctagagactgagt	AA037962	94784	catcgacttggccagaagcaagagg	AA123821
9577	aagcctactttgatgtagtcgaaga	W51326	52181	catgactggcctagagactgagtat	AA037962	94785	cgacttggccagaagcaagaggtga	AA123821
9578	tcattgatgcttgcattaagctgtc	W51326	52182	accagcctgccactggtggtcgtcc	AA037962	94786	gtgatcatcacaaaattcattgtga	AA123821
9579	atggaaatttccgactcatatcata	W51326	52183	cagcctgccactggtggtcgtccga	AA037962	94787	atcatcacaaaattcattgtgaagg	AA123821
9580	gaaatttccgactcatatcataccg	W51326	52184	gcattgctcatgcctgggctcgcat	AA037962	94788	tttcaaaacacagaagcaggatctc	AA123821
9581	tccgactcatatcataccgcgtcac	W51326	52185	tatctgattgatgtcatgcgtgcct	AA037962	94789	gaagcaggatctcctacgataatgc	AA123821
9582	gactcatatcataccgcgtcactca	W51326	52186	tctgattgatgtcatgcgtgcctgt	AA037962	94790	ggatctcctacgataatgctactgt	AA123821
9583	tcatatcataccgcgtcactcacaa	W51326	52187	attgatgtcatgcgtgcctgtgtgg	AA037962	94791	ataatgctactgtccttaaaagcag	AA123821
9584	cataccgcgtcactcacaaaatcta	W51326	52188	atgtcatgcgtgcctgtgtggactt	AA037962	94792	atgctactgtccttaaaagcaggtg	AA123821
9585	accgcgtcactcacaaaatctagtg	W51326	52189	ggttattgctctgacgtccttgacg	AA037962	94793	aatctctgcgcacgttctcgagtgt	AA123821
9586	gcgtcactcacaaaatctagtggca	W51326	52190	tgtgacagctgtggcctttagttag	AA037964	94794	gcacgttctcgagtgttcttaatgg	AA123821
9587	ctcacaaaatctagtggcaatccca	W51326	52191	tgacagctgtggcctttagttagga	AA037964	94795	ttcttaatggatcccgcctggaatc	AA123821
9588	aaatctagtggcaatcccagtgtat	W51326	52192	cgacatgcatcttgaggacctgtgg	AA037964	94796	tatttctgagtcttaatgagcatcc	AA123822

TABLE 1

SEQ ID NO	sequence	DBAxnID
9589	ttgatgcttgcattaagctgtctgg	W51326
9590	agtggcaatcccagtgtatgtgaac	W51326
9591	ttaagctgtctggaatgcctgatct	W51326
9592	ctttcatgaacccaaggcttctaga	W51326
9593	tgaacccaaggcttctagatgatgt	W51326
9594	atgtcagcttccacccatgcatccg	W51326
9595	tccacccatgcatccggttcaaacg	W51326
9596	catgcatccggttcaaacgctggga	W51326
9597	tcattcctcccgatggaaatttccg	W51326
9598	gaagcatctgtcatcggagcgcctg	W51327
9599	tctgtcatcggagcgcctgtccttc	W51327
9600	cacactgggctgatttcactggtga	W51327
9601	tacgaacagttccagcagcacaagc	W51327
9602	cagttccagcagcacaagctgctcg	W51327
9603	cagcagcacaagctgctcgtaaggg	W51327
9604	cacaagctgctcgtaagggctgttg	W51327
9605	ctgctcgtaagggctgttgatggag	W51327
9606	ccgccactgagcagcgatgtggtcg	W51327
9607	ctgagcagcgatgtggtcgtcactg	W51327
9608	agcgatgtggtcgtcactgtggatg	W51327
9609	gtggatgtcacgacctcaacgataa	W51327
9610	atcggagcgcctgtccttcaagtta	W51327
9611	gcgcctgtccttcaagttagagcca	W51327
9612	gtccttcaagttagagccaccgact	W51327
9613	tctgactcggaaccaaatagaggga	W51327
9614	cacagcaaaagccacgatcactttc	W51327
9615	cacgatcactttcacatagatagtc	W51327
9616	cacatagatagtcacactgggctga	W51327
9617	gatagtcacactgggctgatttcac	W51327
9618	ccgctggctctcggcaggagaatgg	W51237
9619	ctggctctcggcaggagaatggcgc	W51237
9620	ggattgccagtctggaagtagagaa	W51237
9621	tagagaaccagaaccttcgaggcgt	W51237
9622	ccagaaccttcgaggcgtggtgcaa	W51237
9623	agaaccttcgaggcgtggtgcaaga	W51237
9624	gaaccttcgaggcgtggtgcaagat	W51237
9625	accttcgaggcgtggtgcaagattt	W51237
9626	ccttcgaggcgtggtgcaagatttg	W51237
9627	aagatttgcagcaggccatttccaa	W51237
9628	atttgcagcaggccatttccaagtt	W51237
9629	tttgcagcaggccatttccaagttg	W51237
9630	tggctctcggcaggagaatggcgcc	W51237
9631	catttccaagttggaggtccggctg	W51237
9632	ctctcggcaggagaatggcgccacg	W51237
9633	ccagaaatccttggctggaagttca	W51237
9634	tggaagttcaggccctggagcctcc	W51237
9635	tcattgtgcggattgccagtctgga	W51237
9636	tgtgcggattgccagtctggaagta	W51237
9637	tgcggattgccagtctggaagtaga	W51237
9638	gcggattgccagtctggaagtagag	W51237
9639	gacacgactcaccgtcctaggtaag	K02803
9640	tcaccgtcctaggtaagaaggcaga	K02803
9641	gccagcatttcgacgactgtgcaaa	K02803
9642	cagcatttcgacgactgtgcaaaca	K02803
9643	atttcgacgactgtgcaaacaccgg	K02803
9644	cgacgactgtgcaaacaccgggcag	K02803
9645	acgactgtgcaaacaccgggcagct	K02803
9646	gcaaacaccgggcagctctactttg	K02803
9647	cgggcagctctactttggtgaaggc	K02803
9648	ctcaaagctgacagtgctgggtaag	K02803
9649	aagctgacagtgctgggtaagcagg	K02803
9650	tgacagtgctgggtaagcaggcagc	K02803
9651	ggacagtcagccacaaagacccccg	K02803
9652	tcagccacaaagacccccggagcag	K02803
9653	tatttaactatccaaggccctgtat	K02803
9654	tttaactatccaaggccctgtatca	K02803
9655	taactatccaaggccctgtatcagg	K02803
9656	aggtttgtgccagcatttcgacgac	K02803

SEQ ID NO:	sequence	DBAxnID
52193	atgcatcttgaggacctgtggatag	AA037964
52194	gcatcttgaggacctgtggatagtg	AA037964
52195	atcttgaggacctgtggatagtggc	AA037964
52196	gtatcatcaagatctggacagagag	AA037964
52197	atcatcaagatctggacagagagct	AA037964
52198	atgatacgtgtcctagcttcgagtg	AA037964
52199	tacgtgtcctagcttcgagtggtga	AA037964
52200	cgtgtcctagcttcgagtggtgatg	AA037964
52201	tcctagcttcgagtggtgatgagtc	AA037964
52202	agctgtggcctttagttaggagctg	AA037964
52203	ctagcttcgagtggtgatgagtcca	AA037964
52204	ctgtggcctttagttaggagctgga	AA037964
52205	ggcctttagttaggagctggatcct	AA037964
52206	agctggatcctgtacagagactctg	AA037964
52207	ggatcctgtacagagactctgcgtg	AA037964
52208	tacagagactctgcgtgtacaagat	AA037964
52209	gaagcgacatgcatcttgaggacct	AA037964
52210	agcgacatgcatcttgaggacctgt	AA037964
52211	ggggccagcacacggtcttactagt	AA038142
52212	gggccagcacacggtcttactagtt	AA038142
52213	aggaccaggcacagagctgatgaag	AA038142
52214	ggaccaggcacagagctgatgaagt	AA038142
52215	gaccaggcacagagctgatgaagtc	AA038142
52216	accaggcacagagctgatgaagtct	AA038142
52217	atgaagtctttgtgggcctggcttc	AA038142
52218	tgaagtctttgtgggcctggcttct	AA038142
52219	ggccagcacacggtcttactagtta	AA038142
52220	gccagcacacggtcttactagttaa	AA038142
52221	ccagcacacggtcttactagttaag	AA038142
52222	cagcacacggtcttactagttaagg	AA038142
52223	gttaaggaccaggcacagagctgat	AA038142
52224	ttaaggaccaggcacagagctgatg	AA038142
52225	taaggaccaggcacagagctgatga	AA038142
52226	aaggaccaggcacagagctgatgaa	AA038142
52227	accagcagcatggcgtagtgcccag	X77952
52228	gcgtagtgcccagcctggagcctcg	X77952
52229	actgcccaatccaggggctctggga	X77952
52230	atatggctgcccgggattacagaaa	X77952
52231	ctgcccgggattacagaaagacacg	X77952
52232	gccggtcacacccatgctgcttaga	X77952
52233	catgctgcttagaagcctaagcctc	X77952
52234	aagcctaagcctctgccttcaagct	X77952
52235	tcaagctggatcctgtgcagggtgg	X77952
52236	ctcacctggactggcacaacttcgg	X77952
52237	gggccaagtcctgcatattcactaa	X77952
52238	agtcctgcatattcactaataaatc	X77952
52239	gaccgagcagccacaagctggaaac	X77952
52240	catattcactaataaatcagacatg	X77952
52241	gcagccacaagctggaaaccaccgg	X77952
52242	acaagctggaaaccaccggccatga	X77952
52243	gcacctgttcattcctcccagtgga	X77952
52244	gttcattcctcccagtggagacttc	X77952
52245	tcctcccagtggagacttcagattg	X77952
52246	ccactttacagaactgcccaatcca	X77952
52247	tacagaactgcccaatccaggggct	X77952
52248	tcgatctatctacctatgccgacat	AA038178
52249	atctatctacctatgccgacatggt	AA038178
52250	ctatgccctggccaacttcattcgg	AA038178
52251	ggccaacttcattcggtctcagagc	AA038178
52252	cattcggtctcagagcatcagctcc	AA038178
52253	gtctcagagcatcagctccctgaag	AA038178
52254	catcagctccctgaaggtgtggact	AA038178
52255	tcagacagctgaagccctaggcgtc	AA038178
52256	gacagctgaagccctaggcgtcccc	AA038178
52257	agctgaagccctaggcgtcccctat	AA038178
52258	agccctaggcgtcccctatgaacag	AA038178
52259	cctaggcgtcccctatgaacagtgg	AA038178
52260	ctacctatgccgacatggtgagagt	AA038178

SEQ ID NO	sequence	DBAxnID
94797	atcccccaggatggactgttttcat	AA123822
94798	tcctgctgacagagcttcccacatc	AA123822
94799	tgacagagcttcccacatcagacgc	AA123822
94800	cagagcttcccacatcagacgcaca	AA123822
94801	agcttcccacatcagacgcacagga	AA123822
94802	aggagctccctcaggtggattctct	AA123822
94803	agctccctcaggtggattctctgat	AA123822
94804	gttttcctacattcttgacattcaa	AA123822
94805	ttcctacattcttgacattcaaatc	AA123822
94806	cattcaaatcgtttctcacttccgt	AA123822
94807	ttctcacttccgtgagttacctgat	AA123822
94808	aactgctacacatcaggcactacag	AA123822
94809	tgctacacatcaggcactacagacc	AA123822
94810	tacacatcaggcactacagaccctg	AA123822
94811	tcaggcactacagaccctgcaatgg	AA123822
94812	ctggtgccagctgatggttcctgct	AA123822
94813	ccagctgatggttcctgctgacaga	AA123822
94814	gatggttcctgctgacagagcttcc	AA123822
94815	ggttcctgctgacagagcttcccac	AA123822
94816	aaatgtttatgttccttctgaatgc	AA123848
94817	aatgtttatgttccttctgaatgct	AA123848
94818	tcttccctggagtctggtaccagtg	AA123848
94819	cttccctggagtctggtaccagtga	AA123848
94820	ccctggagtctggtaccagtgagaa	AA123848
94821	ccccaaatctaggcaacaggtgtct	AA123848
94822	cccaaatctaggcaacaggtgtctg	AA123848
94823	caaatctaggcaacaggtgtctgag	AA123848
94824	gcaacaggtgtctgaggtggagcaa	AA123848
94825	caacaggtgtctgaggtggagcaat	AA123848
94826	aatccatcaggaaaacagaaggcag	AA123848
94827	gagaggtacctgcttcctgtcctcc	AA123848
94828	gtttatgttccttctgaatgctggc	AA123848
94829	tatgttccttctgaatgctggcctc	AA123848
94830	tgttccttctgaatgctggcctctt	AA123848
94831	tccttctgaatgctggcctcttgga	AA123848
94832	ccttctgaatgctggcctcttggac	AA123848
94833	tgaatgctggcctcttggacagctc	AA123848
94834	tatttggtcaacacaaggtacccat	AA123848
94835	aatcttccctggagtctggtaccag	AA123848
94836	gaatctactggcaaggtggtctatt	AA123886
94837	gtggtctatttcaccacgtcactgc	AA123886
94838	atgttcacacctaagattgagcagc	AA123886
94839	ttcacacctaagattgagcagctag	AA123886
94840	gccgtgttcggggcagttatgcaga	AA123886
94841	atgttcggctcactgggcttagggt	AA123886
94842	tgtggtggcctgattgcttttgcca	AA123886
94843	attgcttttgccagctacaacgaac	AA123886
94844	tttgccagctacaacgaaccctcca	AA123886
94845	ccctccaacgactgccagaagcatg	AA123886
94846	aacgactgccagaagcatgccctca	AA123886
94847	tgccagaagcatgccctcattgtgt	AA123886
94848	gtctatttcaccacgtcactgcctt	AA123886
94849	aagcatgccctcattgtgtctgtca	AA123886
94850	ttcaccacgtcactgccttactttg	AA123886
94851	acgtcactgccttactttgtgctca	AA123886
94852	ctgccttactttgtgctcatcatct	AA123886
94853	ccttactttgtgctcatcatctacc	AA123886
94854	gtgctcatcatctacctggtccggg	AA123886
94855	gccaccaatggcctggcatacatgt	AA123886
94856	tacatgttcacacctaagattgagc	AA123886
94857	ggacttcgtgcagtgtgtgatgaga	AA124588
94858	acttcgtgcagtgtgtgatgagacc	AA124588
94859	gtgtcagagctgctggatgactaat	AA124588
94860	ctaatgtggacctgatggctacgtt	AA124588
94861	tgtggacctgatggctacgttacat	AA124588
94862	tggacctgatggctacgttacatct	AA124588
94863	gacctgatggctacgttacatctgt	AA124588
94864	atggctacgttacatctgtagagtt	AA124588

TABLE 1

SEQ ID NO	sequence	DBAxnID
9657	ttgtgccagcatttcgacgactgtg	K02803
9658	gtgccagcatttcgacgactgtgca	K02803
9659	gggcacccgactatcggtgctaggt	K02803
9660	cacccgactatcggtgctaggtaag	K02803
9661	tgcgcgttctcagcgggattgggct	K02803
9662	gcgttctcagcgggattgggctgca	K02803
9663	ggccgggtttctctgggagtcacag	K02803
9664	gtttctctgggagtcacagggttgt	K02803
9665	tgccctgactgattggcagccgatt	K02803
9666	cctgactgattggcagccgattgaa	K02803
9667	tgattggcagccgattgaacagcct	K02803
9668	gcagccgattgaacagcctatgcga	K02803
9669	tgaacagcctatgcgagcttcttgg	K02803
9670	acagcctatgcgagcttcttggcaa	K02803
9671	atcggtgctaggtaagctggggtat	K02803
9672	ctatgcgagcttcttggcaactgca	K02803
9673	tgggttctggggctgtgaaccaaga	K02803
9674	gttctggggctgtgaaccaagacac	K02803
9675	ctgtgaaccaagacacccagtactt	K02803
9676	tgaaccaagacacccagtactttgg	K02803
9677	cccagtactttgggccaggcactcg	K02803
9678	actttgggccaggcactcggctcct	K02803
9679	gcactcggctcctcgtgttaggtga	K02803
9680	tcgtgttgcagctgtagcatgagcc	AA048226
9681	tgttgcagctgtagcatgagccggc	AA048226
9682	attttgagggactttgcgagcgccg	AA048226
9683	aggtacttttggcgatggaagcgct	AA048226
9684	tacttttggcgatggaagcgcttttt	AA048226
9685	aagcgcttttccagctcacagatct	AA048226
9686	cgcttttccagctcacagatctgca	AA048226
9687	ttttccagctcacagatctgcaccc	AA048226
9688	agctcacagatctgcacccgggaaa	AA048226
9689	tcacagatctgcacccgggaaaagg	AA048226
9690	cagatctgcacccgggaaaaggacg	AA048226
9691	aaggacgtgcgcggcttcttacgct	AA048226
9692	tgcagctgtagcatgagccggctcg	AA048226
9693	agctgtagcatgagccggctcgcct	AA048226
9694	ttttggaaccaggtcttgacctgcg	AA048226
9695	tggaaccaggtcttgacctgcgcgt	AA048226
9696	aaccaggtcttgacctgcgcgtccg	AA048226
9697	ttgacctgcgcgtccgtcattttga	AA048226
9698	tgcgcgtccgtcattttgagggact	AA048226
9699	gcgtccgtcattttgagggactttg	AA048226
9700	gccttaccgctgtctcgactgtggc	W53937
9701	ccgctgtctcgactgtggcaagtca	W53937
9702	actagcccagcatcgtggcatccac	W53937
9703	ccagcatcgtggcatccacacaggt	W53937
9704	agcatcgtggcatccacacaggtgc	W53937
9705	catcgtggcatccacacaggtgcac	W53937
9706	ggcatccacacaggtgcacagccct	W53937
9707	tccacacaggtgcacagccctacta	W53937
9708	cacacaggtgcacagccctactagt	W53937
9709	ggtgcacagccctactagtgtactg	W53937
9710	tgcacagccctactagtgtactgcc	W53937
9711	cacagccctactagtgtactgcctg	W53937
9712	gctgtctcgactgtggcaagtcatt	W53937
9713	tgtctcgactgtggcaagtcattca	W53937
9714	caagtcattcagccatggcgccaca	W53937
9715	agtcattcagccatggcgccacact	W53937
9716	tcattcagccatggcgccacactag	W53937
9717	attcagccatggcgccacactagcc	W53937
9718	ggcgccacactagcccagcatcgtg	W53937
9719	ccacactagcccagcatcgtggcat	W53937
9720	ttcggtcccggcaccaggctcacgg	K02803
9721	taagattcacatctctcgcttccac	K02803
9722	ccaaacgttgttcgctctctcgcaa	K02803
9723	aaacgttgttcgctctctcgcaagc	K02803
9724	ttcgctctctcgcaagccaggacaa	K02803

SEQ ID NO:	sequence	DBAxnID
52261	cctatgccgacatggtgagagtgaa	AA038178
52262	atgccgacatggtgagagtgaactc	AA038178
52263	tgaactcaaccttagaggccgcatt	AA038178
52264	tagaggccgcattggaggtgactct	AA038178
52265	cctctcagctcggggcaagcagtat	AA038178
52266	ctcagctcggggcaagcagtatgcc	AA038178
52267	gtatgcctatgccctggccaacttc	AA038178
52268	gattcccgattatgtgctgggccag	X07414
52269	cgattatgtgctgggccagagcacc	X07414
52270	cctcctggctacatttggatccctg	X07414
52271	ggctacatttggatccctggaacag	X07414
52272	atttggatccctggaacagctcttc	X07414
52273	atccctggaacagctcttcaccgca	X07414
52274	gctcttcaccgcatcaagggaggat	X07414
52275	cccacagaaggcccgcaggctcttt	X07414
52276	cttcctcaaagtgcctcgatgacct	X07414
52277	atgacctgctgccacctaggcccat	X07414
52278	cacctaggcccatgtcacaataaag	X07414
52279	ggcccatgtcacaataaagaatttt	X07414
52280	gctgcagagcctggggaagaacttc	X07414
52281	tgtgaaagatccccagcaggctctc	X07414
52282	cctggagacctacagggcgtatgag	X07414
52283	gccagccgacctccttatggaaaag	X07414
52284	gcagaacttcctatcacgggccact	X07414
52285	ggccactgagtgtctgaccaccgtg	X07414
52286	tgagtgtctgaccaccgtgaaatct	X07414
52287	tctgaccaccgtgaaatctgtgaac	X07414
52288	tgaccaaattaacgcttgcaactgg	X52622
52289	cccttgttaatttccatgatcctga	X52622
52290	cctatcaggaccaacaagaccagcc	X52622
52291	atcaggaccaacaagaccagcctgt	X52622
52292	aggaccaacaagaccagcctgtgat	X52622
52293	accaacaagaccagcctgtgatacc	X52622
52294	tcctggtcggcgacaccgtgtgggt	X52622
52295	cgtggatccacgccgctcacgtaaa	X52622
52296	tccacgccgctcacgtaaaagcggc	X52622
52297	ctccggccggaacagcatcaggacc	X52622
52298	ggaacagcatcaggaccgacatgga	X52622
52299	agcatcaggaccgacatggaaggtc	X52622
52300	ttgttaatttccatgatcctgaaat	X52622
52301	atttccatgatcctgaaatgtcaaa	X52622
52302	tccatgatcctgaaatgtcaaagtt	X52622
52303	agcctctggccgctgcctatcagga	X52622
52304	ctctggccgctgcctatcaggacca	X52622
52305	tggccgctgcctatcaggaccaaca	X52622
52306	ccgctgcctatcaggaccaacaaga	X52622
52307	ctgcctatcaggaccaacaagacca	X52622
52308	tggatctggtcctgctcctacctgc	Z14249
52309	tacctgctccttctctgcagattgt	Z14249
52310	ttgctagccccggctctggtagacc	Z14249
52311	gctctggtagaccgttctggaatgg	Z14249
52312	ctatgatcgtcctaggacctgtgct	Z14249
52313	tgatcgtcctaggacctgtgctacg	Z14249
52314	ggctctgccctatttcatcttgttg	Z14249
52315	cagaacattcctaagtctcaagggc	Z14249
52316	gggctagtttccctgaggagcccag	Z14249
52317	tctctctcaagctgccacatgtaac	Z14249
52318	ctctcaagctgccacatgtaacgcc	Z14249
52319	cacatgtaacgcccttgctgcttct	Z14249
52320	ctgctccttctctgcagattgttag	Z14249
52321	cactttgctggggtctcctgcttca	Z14249
52322	tcctgcttcaagcaggcttctccca	Z14249
52323	ccccatagcctgagtgatgaggtgg	Z14249
52324	catagcctgagtgatgaggtggccc	Z14249
52325	gtggccccagagctgatctctgctg	Z14249
52326	gccccagagctgatctctgctgctg	Z14249
52327	atctctgctgctgtgtcttatctac	Z14249
52328	acctgcggcagcgtgttggagagct	X82457

SEQ ID NO	sequence	DBAxnID
94865	ggctacgttacatctgtagagttct	AA124588
94866	ctacgttacatctgtagagttctgt	AA124588
94867	tacatctgtagagttctgtggagga	AA124588
94868	catctacggaattctacccacgcag	AA124588
94869	ttcgtgcagtgtgtgatgagaccta	AA124588
94870	tgagacctattttgaggctgttcga	AA124588
94871	agacctattttgaggctgttcgagt	AA124588
94872	acctattttgaggctgttcgagtag	AA124588
94873	ctattttgaggctgttcgagtagtc	AA124588
94874	tagtctacagatgggtcgaagtgtc	AA124588
94875	cgaagtgtcagagctgctggatgac	AA124588
94876	aagtgtcagagctgctggatgacta	AA124588
94877	tggcctgggacaggggcacaatctg	U10484
94878	caatctgcagctcagtggcttcctg	U10484
94879	tgatcgcagcgctgatgagcttcct	U10484
94880	gtcagctcttccagacagccgtgga	U10484
94881	tcttccagacagccgtggaggctgc	U10484
94882	agacagccgtggaggctgcgcccac	U10484
94883	ggctgtctctagaacacatcttatg	U10484
94884	aacacatcttatggccatttaccag	U10484
94885	tcttatggccatttaccagactcgg	U10484
94886	gactgacgtgcagctcaatgtaccc	U10484
94887	cgtgcagctcaatgtacccttggat	U10484
94888	taatgagctttctgagtgagaggca	U10484
94889	gcagctcagtggcttcctgggtcac	U10484
94890	ctcacctgcaggcgtccttcagaag	U10484
94891	tgcaggcgtccttcagaagagccaa	U10484
94892	cgtccttcagaagagccaacagagc	U10484
94893	cactctggctcacggggctcatcat	U10484
94894	ggctcacggggctcatcatcatact	U10484
94895	cggggctcatcatcatactgatcgc	U10484
94896	tcatactgatcgcagcgctgatgag	U10484
94897	ccagatcttgtggtttagaggcctg	AA124025
94898	ctgaacagaatccaaacacagatcc	AA124025
94899	gcatttcgtagttctttatacgaag	AA124025
94900	agttcaatccacaactttatgacac	AA124025
94901	ttcaatccacaactttatgacacac	AA124025
94902	caatccacaactttatgacacaccc	AA124025
94903	atccacaactttatgacacaccctg	AA124025
94904	ccacaactttatgacacaccctgag	AA124025
94905	acaactttatgacacaccctgagtt	AA124025
94906	ctttatgacacaccctgagtttagg	AA124025
94907	ttatgacacaccctgagtttaggat	AA124025
94908	atgctgaagacgacgccccaacaaa	AA124025
94909	gaacagaatccaaacacagatccga	AA124025
94910	acagaatccaaacacagatccgagt	AA124025
94911	agaatccaaacacagatccgagtgg	AA124025
94912	aatccaaacacagatccgagtggtg	AA124025
94913	tccaaacacagatccgagtggtgaa	AA124025
94914	caaacacagatccgagtggtgaatg	AA124025
94915	aacacagatccgagtggtgaatgca	AA124025
94916	atgcatttcgtagttctttatacga	AA124025
94917	gctattgtggacctaacaggactct	L35303
94918	gctgtcacattaggccagccaggcc	L35303
94919	agcccgctggggagcttctcagctt	L35303
94920	agcttctcagctttccaataggaaa	L35303
94921	tcagctttccaataggaaagctcct	L35303
94922	taggaaagctcctgctgtctcctct	L35303
94923	ggcctctccagagagagtctcaaga	L35303
94924	ctcaagagctgcagcaggagcaaag	L35303
94925	agctctctgagacataggccctcac	L35303
94926	ctgagacataggccctcactggaga	L35303
94927	cataggccctcactggagaagggcc	L35303
94928	cacagccttgccaggtggcctgtat	L35303
94929	agggcctcagcctagagccaatcac	L35303
94930	tcagcctagagccaatcaccatcac	L35303
94931	tagagccaatcaccatcacacagaa	L35303
94932	caatcaccatcacacagaaaggcag	L35303

TABLE 1

SEQ ID NO	sequence	DBAxnID
9725	gctctctcgcaagccaggacaaggt	K02803
9726	ctctctcgcaagccaggacaaggta	K02803
9727	tctctcgcaagccaggacaaggtag	K02803
9728	ctctcgcaagccaggacaaggtagg	K02803
9729	tctcgcaagccaggacaaggtaggt	K02803
9730	tttctctgaggtatgcatgcactgg	K02803
9731	ttctctgaggtatgcatgcactggg	K02803
9732	aggagacagctctcaacttcaccct	K02803
9733	ggagacagctctcaacttcaccctt	K02803
9734	gagacagctctcaacttcacccttt	K02803
9735	gacagctctcaacttcaccctttct	K02803
9736	acagctctcaacttcacccttctg	K02803
9737	cagctctcaacttcacccttctgg	K02803
9738	tgccaaacgttgttcgctctctcgc	K02803
9739	gccaaacgttgttcgctctctcgca	K02803
9740	tgtatttctccggccgaacagtcat	W54015
9741	tttctccggccgaacagtcatctca	W54015
9742	aatggcccagatgttcacccaggag	W54015
9743	tggcccagatgttcacccaggagcc	W54015
9744	gcccagatgttcacccaggagccaa	W54015
9745	agatgttcacccaggagccaatttt	W54015
9746	atgttcacccaggagccaattttat	W54015
9747	tcacccaggagccaattttatccaa	W54015
9748	gccaattttatccaacaaagacaca	W54015
9749	caattttatccaacaaagacacatg	W54015
9750	tttatccaacaaagacacatgcaga	W54015
9751	tccaacaaagacacatgcagatgaa	W54015
9752	tccggccgaacagtcatctcacctg	W54015
9753	cggccgaacagtcatctcacctgac	W54015
9754	ccaacctccggattgatgaagtagc	W54015
9755	aacctccggattgatgaagtagccg	W54015
9756	agccgtgccagttcatgtggccaaa	W54015
9757	ccgtgccagttcatgtggccaaaat	W54015
9758	gccagttcatgtggccaaaattcta	W54015
9759	gttcgaaatggcccagatgttcacc	W54015
9760	taccttccttcacacaggactttgg	AA061225
9761	cttccttcacacaggactttggcgg	AA061225
9762	agctcataaagtccagcttgtcccc	AA061225
9763	tcataaagtccagcttgtccctca	AA061225
9764	taaagtccagcttgtccctcaatc	AA061225
9765	agtccagcttgtccctcaatccaa	AA061225
9766	tgtccctcaatccaaaggccattt	AA061225
9767	ctcaatccaaaggccattttctcga	AA061225
9768	gtgcacttccacaatgctgcaccaa	AA061225
9769	cacttccacaatgctgcaccaaagc	AA061225
9770	ttccacaatgctgcaccaaagccgg	AA061225
9771	cacaatgctgcaccaaagccggggc	AA061225
9772	tcacacaggactttggcggaaatct	AA061225
9773	gcggaaatctctacacccgtgtctc	AA061225
9774	gaaatctctacacccgtgtctcatc	AA061225
9775	atctctacacccgtgtctcatcatc	AA061225
9776	catccccttcgagagcattaactat	AA061225
9777	tttaaacccaggagagaagcgctgt	AA061225
9778	tgcgcccctgttagctcataaagtc	AA061225
9779	gcccctgttagctcataaagtccag	AA061225
9780	tcagattgtctgccagccaccttgt	J02990
9781	gattgtctgccagccaccttgtggg	J02990
9782	actcttctctgggatggattctgta	J02990
9783	ttctgtaatcattggcacaggtcct	J02990
9784	tgtaatcattggcacaggtcctgcc	J02990
9785	cccatttatagatcctggcccagcc	J02990
9786	tgcctctccagatttcccccttagat	J02990
9787	ctctccagatttcccccttagatcct	J02990
9788	agatttcccccttagatcctcggatg	J02990
9789	ccccttagatcctcggatggtcatc	J02990
9790	tcctcggatggtcatcaccatctcc	J02990
9791	ggtcatcaccatctccatgaataca	J02990
9792	tacttttttcagccgccctgctgcc	J02990

SEQ ID NO:	sequence	DBAxnID
52329	ccactgcctccggagccagaaagtg	X82457
52330	gagactgtctgcatgcctcactggg	X82457
52331	gtctgcatgcctcactgggcatctt	X82457
52332	cactgggcatcttagacttggtcac	X82457
52333	gcatcttagacttggtcacagagga	X82457
52334	agctctctaagttttgtaccattag	X82457
52335	tttgtaccattagtgaaggggtctg	X82457
52336	gggtctgtgaccctattccatacac	X82457
52337	gtgaccctattccatacacatcgtg	X82457
52338	ctattccatacacatcgtggggata	X82457
52339	catacacatcgtggggatacaaggc	X82457
52340	cctccggagccagaaagtggaactg	X82457
52341	gtttggctttcctgctgctcatgaa	X82457
52342	ctttcctgctgctcatgaaggactt	X82457
52343	gtcgtagaccactaagccatactcc	X82457
52344	gaccactaagccatactccccagga	X82457
52345	taagccatactccccaggaacaggg	X82457
52346	gggtttcccagactgaaggagctgg	X82457
52347	ctgccggagactgtctgcatgcctc	X82457
52348	tgacgattccatgcgtatgtcccac	AA038347
52349	cgattccatgcgtatgtcccaccta	AA038347
52350	agaccttagcctactcacagccact	AA038347
52351	ccttagcctactcacagccactgtg	AA038347
52352	actcacagccactgtggtgccacct	AA038347
52353	cacagccactgtggtgccaccttcg	AA038347
52354	cactgtggtgccaccttcgggtcga	AA038347
52355	agaggaaccctgtctgctgaaacgt	AA038347
52356	ttccttcgtgcccaaggagaccagg	AA038347
52357	acaacctggtacatttgaagaagat	AA038347
52358	agattggccagcatgttggcaagca	AA038347
52359	atcccagtagtgatcagccagttga	AA038347
52360	catgcgtatgtcccacctaaaggtg	AA038347
52361	gcgtatgtcccacctaaaggtggtg	AA038347
52362	tgctgctgatatccccatcaatatc	AA038347
52363	tgatatccccatcaatatctcagaa	AA038347
52364	tatccccatcaatatctcagaaaca	AA038347
52365	caatatctcagaaacagaccttagc	AA038347
52366	tatctcagaaacagaccttagccta	AA038347
52367	ctcagaaacagaccttagcctactc	AA038347
52368	ttctccctgggttactgccccactg	X73360
52369	ctgcaccacactaagcccgacaaat	X73360
52370	acaggcctgtcaaactctgggagag	X73360
52371	ctgtcaaactctgggagagacaccc	X73360
52372	gacacccacgtggccctgacaggga	X73360
52373	gccctgacagggagatgctggccag	X73360
52374	agcagcattgtggggctgccctcca	X73360
52375	tgtgtctgacagacttgaaggactt	X73360
52376	cctaaccagtgctggcagatgcttc	X73360
52377	aaccagtgctggcagatgcttcaat	X73360
52378	caattagatttctctggaggcttct	X73360
52379	ttagatttctctggaggcttctgct	X73360
52380	ctcaagttcgcctattgtggcaagt	X73360
52381	tcatctgtcttgagctgtgacattt	X73360
52382	tctgtcttgagctgtgacatttcag	X73360
52383	gacatttcagcggatgacaaatata	X73360
52384	tatattgtaacaggctctggtgaca	X73360
52385	attgtaacaggctctggtgacaaga	X73360
52386	gtttacgaggtcatctactgaacaa	X73360
52387	aggactctaacaggcctgtcaaact	X73360
52388	tgtagcctcctttctccagcgagga	AA038239
52389	tagcctcctttctccagcgaggaaa	AA038239
52390	agctctgcggtattccggccgcctg	AA038239
52391	gccgcctgcggaatctggattggaa	AA038239
52392	ccgcctgcggaatctggattggaac	AA038239
52393	cgcctgcggaatctggattggaacc	AA038239
52394	gcctgcggaatctggattggaacct	AA038239
52395	cctgcggaatctggattggaacctg	AA038239
52396	gcctcctttctccagcgaggaaacg	AA038239

SEQ ID NO	sequence	DBAxnID
94933	ccatcacacagaaaggcaggaagaa	L35303
94934	gccttcagctggcaaactgagttgg	L35303
94935	ccactgagctcaagggcctggtgga	L35303
94936	agctcaagggcctggtggagcccgc	L35303
94937	tgttcttatggaactgtcagggcaa	AA124231
94938	tcttatggaactgtcagggcaagat	AA124231
94939	aggagatcagactcctagtgaacca	AA124231
94940	agatcagactcctagtgaaccacag	AA124231
94941	gactcctagtgaaccacagacttct	AA124231
94942	tcctagtgaaccacagacttctgca	AA124231
94943	tagtgaaccacagacttctgcagaa	AA124231
94944	tgaaccacagacttctgcagaaaga	AA124231
94945	acagacttctgcagaaagactgaca	AA124231
94946	agatggctcaagtgtagaggagggtc	AA124231
94947	ggaagctatgctacctgtagaagag	AA124231
94948	tatgctacctgtagaagagtctgag	AA124231
94949	agcatcaccagtcgtggctgcagag	AA124231
94950	atcaccagtcgtggctgcagaggcc	AA124231
94951	accagtcgtggctgcagaggccgga	AA124231
94952	tgcagaggccggagctgaagtctct	AA124231
94953	tgaagtctctgagaagccagggcag	AA124231
94954	tacagttattcccaacaatggtcca	AA124231
94955	caacaatggtccagttgttggacaa	AA124231
94956	caatggtccagttgttggacaatca	AA124231
94957	accaggagccatggagcccgacaac	AA116737
94958	cgacaacagcccacggaagatccag	AA116737
94959	caactcacttctcaagtccaccttg	AA116737
94960	actcacttctcaagtccaccttgtc	AA116737
94961	tcacttctcaagtccaccttgtcaa	AA116737
94962	acttctcaagtccaccttgtcaatg	AA116737
94963	ttctcaagtccaccttgtcaatgtc	AA116737
94964	ctcaagtccaccttgtcaatgtctc	AA116737
94965	caagtccaccttgtcaatgtctcca	AA116737
94966	agtccaccttgtcaatgtctccacg	AA116737
94967	tccaccttgtcaatgtctccacggc	AA116737
94968	caccttgtcaatgtctccacggcaa	AA116737
94969	acaacagcccacggaagatccagtt	AA116737
94970	ccttgtcaatgtctccacggcaacg	AA116737
94971	gatccagtttacggtcccgctgctg	AA116737
94972	cagtttacggtcccgctgctggagc	AA116737
94973	ccacacttgtgctgaccagtgatca	AA116737
94974	acacttgtgctgaccagtgatcagt	AA116737
94975	acttgtgctgaccagtgatcagtcc	AA116737
94976	ttgtgctgaccagtgatcagtcctc	AA116737
94977	atgaagaccggatccccaactcact	AA116737
94978	catgttttcctggatggaagtcagt	AA124052
94979	agtcagttactgttgtctgttcctt	AA124052
94980	ttcacctattcctaggaggttggat	AA124052
94981	tattcctaggaggttggatagtcct	AA124052
94982	ggatagtcctctggttggaagcgac	AA124052
94983	tagtcctctggttggaagcgacaaa	AA124052
94984	caaacttcatataaactaatccaag	AA124052
94985	aaactaatccaagtagttctgctag	AA124052
94986	ctaatccaagtagttctgctagagc	AA124052
94987	gtagttctgctagagctatgatccc	AA124052
94988	ctatgatccccaaacctgaaatcaa	AA124052
94989	ccgtgcactggctcacatgccatga	AA124052
94990	ttgtctgttccttccagctgtgagt	AA124052
94991	gttccttccagctgtgagtcgtgaa	AA124052
94992	tccagctgtgagtcgtgaagacctg	AA124052
94993	tagacaactgtattcttccatttct	AA124052
94994	acaactgtattcttccatttctgac	AA124052
94995	ttccatttctgacttccaagttaca	AA124052
94996	catttctgacttccaagttacagtc	AA124052
94997	tgacttccaagttacagtccgtcac	AA124052
94998	cctgcgccgtctgatgcttcacggc	AA116242
94999	tgcgccgtctgatgcttcacggcgt	AA116242
95000	gcaccccatgtccacatactacagg	AA116242

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
9793	aattggccctcatagctaagcccttt	J02990	52397	cggcctacgaaaccttagctctgcg	AA038239	95001	accccatgtccacatactacaggtc	AA116242
9794	tagctaagccctttcctacagcttt	J02990	52398	ggcctacgaaaccttagctctgcgg	AA038239	95002	catgtccacatactacaggtcctaa	AA116242
9795	ctaagccctttcctacagctttctg	J02990	52399	gcctacgaaaccttagctctgcggt	AA038239	95003	tgtccacatactacaggtcctaagg	AA116242
9796	gccccctttgtctctacgagaatgtc	J02990	52400	ctacgaaaccttagctctgcggtat	AA038239	95004	tccacatactacaggtcctaaggcc	AA116242
9797	aactctgtgtttttacactcttctct	J02990	52401	tacgaaaccttagctctgcggtatt	AA038239	95005	cacatactacaggtcctaaggcctg	AA116242
9798	tctgtgttttacactcttctctggg	J02990	52402	gaaaccttagctctgcggtattccg	AA038239	95006	catactacaggtcctaaggcctgtg	AA116242
9799	ttttacactcttctctgggatggat	J02990	52403	ccttagctctgcggtattccggccg	AA038239	95007	ctacaggtcctaaggcctgtggtgg	AA116242
9800	tcttcccgtacacatttctcctgac	D16106	52404	attttgcctgtcagtctatattgct	X69942	95008	taaggcctgtggtggtagtggttca	AA116242
9801	cgtacacatttctcctgacaacatc	D16106	52405	tatacatcagattctttgtataact	X69942	95009	aggcctgtggtggtagtggttcaca	AA116242
9802	tctcccagatcatgatttgtgtcag	D16106	52406	gttaatgctacctccttgtgatcac	X69942	95010	ccgtctgatgcttcacggcgtacat	AA116242
9803	cctactcagttactctagagtaaag	D16106	52407	tccttgtgatcacagtacccaggtc	X69942	95011	gtctgatgcttcacggcgtacatac	AA116242
9804	gcagtccctttttgatccttaatcct	D16106	52408	ttgtgatcacagtacccaggtcgct	X69942	95012	ctgatgcttcacggcgtacatacgc	AA116242
9805	gatccttaatcctgggtgcttatga	D16106	52409	tcacagtacccaggtcgcttagtca	X69942	95013	gatgcttcacggcgtacatacgctg	AA116242
9806	ggtagctcacttcccactctccatg	D16106	52410	cagtacccaggtcgcttagtcaagt	X69942	95014	tctttgacagtgccaggttaagcaa	AA116242
9807	cccactctccatggagacagaaggt	D16106	52411	tacccaggtcgcttagtcaagttgt	X69942	95015	acagtgccaggttaagcaagtggac	AA116242
9808	tatatatagatacacccaacaggca	D16106	52412	aaatgtgtctcccacagtaggctca	X69942	95016	cgctgactggagcctttgcactctt	AA116242
9809	cacccaacaggcagctagaatgcaa	D16106	52413	gtctcccacagtaggctcattggtt	X69942	95017	ctgactggagcctttgcactcttgg	AA116242
9810	ccgtgcgctcagttatttgggctcc	D16106	52414	agtaggctcattggttgtggtgttg	X69942	95018	gagatgattctccatgcccttaatt	W08454
9811	ttatttgggctccctctctgagagc	D16106	52415	tgtagttggattctccctgtaatat	X69942	95019	tgattctccatgcccttaatttcag	W08454
9812	gagccacatttctcaccagggttgc	D16106	52416	tagctcatacttttcaagacacccc	X69942	95020	tgtcacctctgaggagtaatggact	W08454
9813	ctctctgagagcgtgctgtctgtac	D16106	52417	ccagtgctgaggtgctaggtaaaca	X69942	95021	tcacctctgaggagtaatggactgt	W08454
9814	atgatgtcatcctaacaagggagca	D16106	52418	gacacaatcctacagtgctatttttt	X69942	95022	tatcactgggccctttcgtcttca	W08454
9815	taacaagggagcaccttccgtggct	D16106	52419	ttcaggtatctgagactctgaactc	X69942	95023	tcactgggccctttcgtcttcata	W08454
9816	cgtggcttaaatctctccctaggtg	D16106	52420	ctgagactctgaactcctgactcag	X69942	95024	tcgtcttcataacgagaactcttgg	W08454
9817	ttaaatctctccctaggtggtgatt	D16106	52421	ctctgaactcctgactcagtagatt	X69942	95025	gtcttcataacgagaactcttggcc	W08454
9818	ctctccctaggtggtgatttcacat	D16106	52422	ggctgccaggaatttgcaggtgtta	X69942	95026	cttcataacgagaactcttggccaa	W08454
9819	ggtgatttcacatctcccagatcat	D16106	52423	ggtgttaatgctacctccttgtgat	X69942	95027	tggtgccgcacaccagtgtccttttt	W08454
9820	ttcacatctcccagatcatgatttg	D16106	52424	atcctcttggcttttgccgcagttg	L15429	95028	gtgccgcacaccagtgtccttttaa	W08454
9821	gcaagctgctagcgacatcattacg	W54110	52425	ttggcttttgccgcagttgaattca	L15429	95029	gccgcacaccagtgtccttttaaag	W08454
9822	cgacatcattacgaggcagcccaga	W54110	52426	ttttccctgtgttgtgagactttgc	L15429	95030	attctccatgcccttaatttcagaa	W08454
9823	gctgatcagcatacgcctatggaca	W54110	52427	tccctgtgttgtgagactttgcacc	L15429	95031	tctccatgcccttaatttcagaacc	W08454
9824	gatcagcatacgcctatggacagat	W54110	52428	ctttctgcttttgtaaggaaatgtg	L15429	95032	tccatgcccttaatttcagaaccat	W08454
9825	cagcatacgcctatggacagatcgg	W54110	52429	gctaacgtcatcacatgatgtcagt	L15429	95033	tttacaagttctgtaatgtggtaga	W08454
9826	acgcctatggacagatcggtattat	W54110	52430	gtcatcacatgatgtcagtgtttac	L15429	95034	ggcctgcttctgtcacctctgagga	W08454
9827	tcggtattatgcatgccgtggaatc	W54110	52431	agcaaactgcactctctccgaaggg	L15429	95035	cctgcttctgtcacctctgaggagt	W08454
9828	tgcatgccgtggaatcgttgttcac	W54110	52432	aaactgcactctctccgaagggatt	L15429	95036	tgcttctgtcacctctgaggagtaa	W08454
9829	aatcgttgttcacatactccgtgat	W54110	52433	cactctctccgaagggattttacag	L15429	95037	cttctgtcacctctgaggagtaatg	W08454
9830	cgttgttcacatactccgtgattct	W54110	52434	aggactgttctcagcatagctgaga	L15429	95038	tatcatcgagccagtatacattcag	AA125572
9831	catactccgtgattctggctgatta	W54110	52435	gagataaactcttcagtgtttgaga	L15429	95039	tcatcgagccagtatacattcagaa	AA125572
9832	actccgtgattctggctgattacgt	W54110	52436	tttgccgcagttgaattcatcttgt	L15429	95040	actcgctaatgatggcagtgcagtg	AA125572
9833	catcattacgaggcagcccagaaac	W54110	52437	gaattcatcttgtgtctcattcaag	L15429	95041	cagtgagatcacgctgctggtagct	AA125572
9834	ttctggctgattacgtgttcctgcc	W54110	52438	ttcatcttgtgtctcattcaagtaa	L15429	95042	gtgagatcacgctgctggtagcttt	AA125572
9835	gaggcagcccagaaacatcaaaacg	W54110	52439	atgctcggaggcttatgtggctatt	L15429	95043	gagatcacgctgctggtagctttgg	AA125572
9836	gcagcccagaaacatcaaaacgtac	W54110	52440	ttatgtggctattgctgctctcgcc	L15429	95044	ccactagctcgtccaactgataagt	AA125572
9837	catcaaaacgtacaaacttgtcagc	W54110	52441	tgctgctctcgccaacagcaatata	L15429	95045	actagctcgtccaactgataagtcc	AA125572
9838	aacgtacaaacttgtcagcgatgcg	W54110	52442	tgctctcgccaacagcaatataact	L15429	95046	tagctcgtccaactgataagtccct	AA125572
9839	caaacttgtcagcgatgcgctgatc	W54110	52443	tctcgccaacagcaatataactgct	L15429	95047	gataagtccctgcgactgccactct	AA125572
9840	tgtcagcgatgcgctgatcagcata	W54110	52444	tttccagtgcggtgtatgactacag	D32007	95048	agtccctgcgactgccactctacga	AA125572
9841	cagcgatgcgctgatcagcatacgc	W54110	52445	cacacacacacacttaagagactca	D32007	95049	tccctgcgactgccactctacgatg	AA125572
9842	tgcatccaacagactcaaggccagg	X58170	52446	cttttgcaaggttccacagactaag	D32007	95050	aggatgtcagcatctacgttaagat	AA125572
9843	caacagactcaaggccaggcagtag	X58170	52447	attgggtctattccagctcattcat	D32007	95051	gatgtcagcatctacgttaagataa	AA125572
9844	ggtcctggacatggcttccgtggcc	X58170	52448	gtattaaaacacttctgtcctgtga	D32007	95052	tgtcagcatctacgttaagataatt	AA125572
9845	ggacatggcttccgtggccttgtac	X58170	52449	tgtcctgtgaggttttcccaatggt	D32007	95053	caacatgctgaagccacgtgttatt	AA125572
9846	ggcttccgtggccttgtacagacca	X58170	52450	gtttacccatatgcccacatttagt	D32007	95054	gctgaagccacgtgttattgggccg	AA125572
9847	cagaccatgccttctgtcggagtct	X58170	52451	tacccatatgcccacatttagtctc	D32007	95055	ggatagtcactcgctaatgatggca	AA125572
9848	atgccttctgtcggagtctggccct	X58170	52452	gcccacatttagtctctttattcct	D32007	95056	atagtcactcgctaatgatggcagt	AA125572
9849	tctgtcggagtctggccctagagca	X58170	52453	cacatttagtctctttattcctagt	D32007	95057	tcactcgctaatgatggcagtgcag	AA125572
9850	tggccctagagcagagggtacaatg	X58170	52454	tattcctagttggtgagaaacctgt	D32007	95058	cccagtgcaaccacagaaggttata	W08455
9851	aacgtgaccactgccagctagttcc	X58170	52455	aacctgtatctttctatgctgcttt	D32007	95059	agtgcaaccacagaaggttatagaa	W08455
9852	accactgccagctagttcctgggag	X58170	52456	acacacacacttaagagactcagcc	D32007	95060	gtctctcagtgtcaaatgcctgtca	W08455
9853	gcagccgttaacaacgctggctccg	X58170	52457	cacacacttaagagactcagcctgc	D32007	95061	cagtgtcaaatgcctgtcaacaccc	W08455
9854	actcaaggccaggcagtaggctcca	X58170	52458	aagagactcagcctgcagttaatta	D32007	95062	tgtcaaatgcctgtcaacaccctgc	W08455
9855	gcagtaggctccaatctccaaatat	X58170	52459	gcttccaagtcagccagctgcccta	D32007	95063	caaatgcctgtcaacaccctgccat	W08455
9856	ggctccaatctccaaatatagtttt	X58170	52460	tccaagtcagccagctgccctaaat	D32007	95064	ctgccatacttcgggacacatctgt	W08455
9857	tgaccaaaacagacaaagcgactca	X58170	52461	gccagctgccctaaataacccttca	D32007	95065	ccatacttcgggacacatctgttac	W08455
9858	cgactcacgattcccttgacaatcc	X58170	52462	ttcaacatttcttcacttttgcaag	D32007	95066	tacttcgggacacatctgttacttt	W08455
9859	acaatcctggagatcccctgcacat	X58170	52463	tcacttttgcaaggttccacagact	D32007	95067	gggacacatctgttactttgtgagc	W08455
9860	ctggagatcccctgcacatgaggag	X58170	52464	ctgaggcaacacgattccgggacta	AA038494	95068	acacatctgttactttgtgagcaag	W08455

TABLE 1

SEQ ID NO	sequence	DBAxnID
9861	aaatgaggtcctggacatggcttcc	X58170
9862	ttctctaatcctgtgtgacagttga	M63725
9863	aatcctgtgtgacagttgaagatgc	M63725
9864	tgtggtcagtacaccagcatttaac	M63725
9865	ggtcagtacaccagcatttaacctc	M63725
9866	cagtacaccagcatttaacctctgt	M63725
9867	accagcatttaacctctgtattcta	M63725
9868	agcatttaacctctgtattctaatc	M63725
9869	atttaacctctgtattctaatctgt	M63725
9870	cctctgtattctaatctgtgttcac	M63725
9871	aatctgtgttcacttggaaacttgc	M63725
9872	tgttcacttggaaacttgcagaact	M63725
9873	tgttgtgtacctacagagtatgttt	M63725
9874	tctcttgcgctttaacagaatgaag	M63725
9875	cctgaatatgcacaccaaagctttc	M63725
9876	gaatatgcacaccaaagctttcctg	M63725
9877	tatgcacaccaaagctttcctgagg	M63725
9878	tataatcatcttaccgtaaggtttg	M63725
9879	ttctaaaacagttactgaggcaatc	M63725
9880	tttatctaaagtttcagctgtggtc	M63725
9881	taaagtttcagctgtggtcagtaca	M63725
9882	gcgccatgtcgggttcttctagcgt	AA035951
9883	gtttcccaggcagctgcagacttca	AA035951
9884	agttctgtctgcagaatgctcaaca	AA035951
9885	ttctgtctgcagaatgctcaacatg	AA035951
9886	ctgtctgcagaatgctcaacatgac	AA035951
9887	agaatgctcaacatgaccctctgct	AA035951
9888	aatgctcaacatgaccctctgctga	AA035951
9889	tgctcaacatgaccctctgctgact	AA035951
9890	caacatgaccctctgctgactggag	AA035951
9891	acatgaccctctgctgactggagtg	AA035951
9892	atgaccctctgctgactggagtgtc	AA035951
9893	gaccctctgctgactggagtgtctt	AA035951
9894	ttcccaggcagctgcagacttcaaa	AA035951
9895	ccctctgctgactggagtgtcttca	AA035951
9896	cccaggcagctgcagacttcaaaca	AA035951
9897	cagctgcagacttcaaacagttctg	AA035951
9898	gctgcagacttcaaacagttctgtc	AA035951
9899	tgcagacttcaaacagttctgtctg	AA035951
9900	gacttcaaacagttctgtctgcaga	AA035951
9901	cttcaaacagttctgtctgcagaat	AA035951
9902	tcaaacagttctgtctgcagaatgc	AA035951
9903	caactggccacactagcaaagagcc	AA050055
9904	gccacactagcaaagagccaaccag	AA050055
9905	cttgctgagcaactagtccttggcc	AA050055
9906	gagcaactagtccttggccatgcat	AA050055
9907	caactagtccttggccatgcatcca	AA050055
9908	catgcatccaggaaaccccaagaac	AA050055
9909	aggaaaccccaagaaccatgctgct	AA050055
9910	gaaccatgctgcttttcctgattta	AA050055
9911	ccatgctgcttttcctgatttagta	AA050055
9912	tgcttttcctgatttagtaatctgg	AA050055
9913	ggaaggttccactgcagctgtcccc	AA050055
9914	aggttccactgcagctgtcccctac	AA050055
9915	aagagccaaccagcaaatcatctta	AA050055
9916	agccaaccagcaaatcatcttaggg	AA050055
9917	aatcatcttagggaatcctgaacca	AA050055
9918	gaatcctgaaccacggccaccgtgc	AA050055
9919	ctgtgagaaacaccctattgaagcc	AA050055
9920	ggaccctcatggctgccctcagggt	AA050055
9921	ctgccctcagggtgccttgctgagc	AA050055
9922	ccctcagggtgccttgctgagcaac	AA050055
9923	caagtggccaccagtgcacacactc	M95545
9924	ctcagccttgtgtagggtcccaaag	M95545
9925	attaatgtttatccagctgccgtag	M95545
9926	ccagctgccgtagtttgaaacattc	M95545
9927	tctaatttcaaccccaaatgacatg	M95545
9928	ttcaaccccaaatgacatgtttatt	M95545

SEQ ID NO:	sequence	DBAxnID
52465	tgaggcaacacgattccgggactac	AA038494
52466	ccgggactacacctgagatgaacta	AA038494
52467	cgggactacacctgagatgaactat	AA038494
52468	gggactacacctgagatgaactatc	AA038494
52469	gactacacctgagatgaactatctt	AA038494
52470	actacacctgagatgaactatcttg	AA038494
52471	ctacacctgagatgaactatcttgc	AA038494
52472	atgaactatcttgcagaagcgtctg	AA038494
52473	tgaactatcttgcagaagcgtctgg	AA038494
52474	actatcttgcagaagcgtctgggac	AA038494
52475	ctatcttgcagaagcgtctgggacc	AA038494
52476	gaggcaacacgattccgggactaca	AA038494
52477	gcaacacgattccgggactacacct	AA038494
52478	caacacgattccgggactacacctg	AA038494
52479	acacgattccgggactacacctgag	AA038494
52480	cacgattccgggactacacctgaga	AA038494
52481	acgattccgggactacacctgagat	AA038494
52482	gattccgggactacacctgagatga	AA038494
52483	attccgggactacacctgagatgaa	AA038494
52484	agtgccctggagatgagttgcaaga	X54989
52485	gagttgcaagacatccccagtgagg	X54989
52486	tgagctgtcttcttttagtacttcc	X54989
52487	ctgtcttcttttagtacttcccatg	X54989
52488	gtcttcttttagtacttcccatgtg	X54989
52489	tcttttagtacttcccatgtgccag	X54989
52490	acaaggagtccctccattctacatc	X54989
52491	tccattctacatcccacagttcttc	X54989
52492	cattctacatcccacagttcttcca	X54989
52493	aaacctgcagggtcactcatctaaa	X54989
52494	acctgcagggtcactcatctaaagt	X54989
52495	tcactcatctaaagtctagtgacct	X54989
52496	gttgcaagacatccccagtgaggta	X54989
52497	caagacatccccagtgaggtataaa	X54989
52498	agtggactttctgctctagatcata	X54989
52499	atattctgaagctgagctgtcttct	X54989
52500	attctgaagctgagctgtcttcttt	X54989
52501	tgaagctgagctgtcttcttttagt	X54989
52502	aagctgagctgtcttcttttagtac	X54989
52503	gctgagctgtcttcttttagtactt	X54989
52504	catccccactataggtgagtccagg	AA038385
52505	tccccactataggtgagtccaggac	AA038385
52506	ttctgcctaggcccttatctgtccc	AA038385
52507	ctgcctaggcccttatctgtccctg	AA038385
52508	gcctaggcccttatctgtccctgac	AA038385
52509	aggcccttatctgtccctgaccctg	AA038385
52510	ctgaccctgacaccagatacagcta	AA038385
52511	gaccctgacaccagatacagctact	AA038385
52512	ccctgacaccagatacagctacttg	AA038385
52513	ctgacaccagatacagctacttgag	AA038385
52514	gacaccagatacagctacttgagaa	AA038385
52515	caccagatacagctacttgagaaat	AA038385
52516	cccactataggtgagtccaggacaa	AA038385
52517	ccagatacagctacttgagaaatgg	AA038385
52518	ggaatgtcgctttgagccttgtcgg	AA038385
52519	aatgtcgctttgagccttgtcgggg	AA038385
52520	tgtcgctttgagccttgtcggggtc	AA038385
52521	gctttgagccttgtcggggtctgct	AA038385
52522	agccttgtcggggtctgctcccact	AA038385
52523	gggtctgctcccacttctgcctagg	AA038385
52524	ccacttctgcctaggcccttatctg	AA038385
52525	ataatgatcaccactctgctgggcc	X54239
52526	actctgctgggccaccaagcccgga	X54239
52527	cagtacaaaccttcagcgcctctgg	X54239
52528	cacttaggaactcctgtactcatcc	X54239
52529	ggaactcctgtactcatccttatag	X54239
52530	ctcatccttatagccagtgtttgag	X54239
52531	cttatagccagtgtttgaggaaaag	X54239
52532	ggacaacttcaatcatccaatgcag	X54239

SEQ ID NO:	sequence	DBAxnID
95069	catctgttactttgtgagcaagcct	W08455
95070	aaagcaccgtgtcaaactgaccaca	W08455
95071	gcaccaccactgggaccacgctggt	W08455
95072	ccacgctggtgggaacgagaagctg	W08455
95073	aggtgatgaccgcatcggagccttg	W08455
95074	tgatgaccgcatcggagccttgact	W08455
95075	catcggagccttgactcacaaggtc	W08455
95076	cttgactcacaaggtcacacacctc	W08455
95077	ggggtctctcagtgtcaaatgcctg	W08455
95078	tgacttcagcgccacagcatgctgg	L35302
95079	cagcgccacagcatgctggttatgg	L35302
95080	cactcctaccaggacattctctcga	L35302
95081	taccaggacattctctcgaggtcag	L35302
95082	ctctcgaggtcagggcataactgga	L35302
95083	ctgttcagactcaaaactagaacca	L35302
95084	agaaccacagggcagaagggtcaga	L35302
95085	cctgccctggactgagttcctatgt	L35302
95086	tgagttcctatgttaacagacacgc	L35302
95087	cccagaaactgccctgggaaatgct	L35302
95088	aaatgctttctggctgcatctggag	L35302
95089	tttctggctgcatctggagatcttt	L35302
95090	cagaagtgctcttttcacacagact	L35302
95091	acagactacacgacaccaggaggcc	L35302
95092	acaccaggaggccagcatgccagca	L35302
95093	cagcatgccagcagcttctgaatgt	L35302
95094	gccagcagcttctgaatgttgagac	L35302
95095	ttgagaccagcctagatcaggatga	L35302
95096	gccaggcctgaggcttggacattga	L35302
95097	agccaaggctatggggcctaagtgg	L35302
95098	tcaatcagaagcccagggtccaggt	AA168918
95099	agcccagggtccaggtgacgaagag	AA168918
95100	cagaagccaaggccagctacctgac	AA168918
95101	aagccaaggccagctacctgacgct	AA168918
95102	ccagctacctgacgcttcagagact	AA168918
95103	gctacctgacgcttcagagactgat	AA168918
95104	acctgacgcttcagagactgatgtc	AA168918
95105	cgcttcagagactgatgtcgaggct	AA168918
95106	ttcagagactgatgtcgaggcttga	AA168918
95107	gctacttcataccagacctttccct	AA168918
95108	tttccctaggagaagccaagaatgc	AA168918
95109	taatgatgcaacacttctcactgca	AA168918
95110	tgacgaagaggcccaggtggagaac	AA168918
95111	gaacctcatcactacaaacgctgcg	AA168918
95112	catcactacaaacgctgcgggccca	AA168918
95113	tacaaacgctgcgggcccagaaggc	AA168918
95114	aaacgctgcgggcccagaaggcaga	AA168918
95115	cagcctccagcgtgaagcctccaga	AA168918
95116	cctccagcgtgaagcctccagaagc	AA168918
95117	agcctccagaagccaaggccagcta	AA168918
95118	atctcaaaattccttcagttccagc	AA125425
95119	ttccttcagttccagcttactgtta	AA125425
95120	tcgccacttaaggcggtgcagatgc	AA125425
95121	ccacttaaggcggtgcagatgctct	AA125425
95122	tgggtaaacctcatcatggacacgc	AA125425
95123	aacctcatcatggacacgctggctt	AA125425
95124	ctcatcatggacacgctggcttccc	AA125425
95125	tccctggctctggctacggaaccac	AA125425
95126	ctggctctggctacggaaccaccca	AA125425
95127	gagtcactcctgcttcggaagcctt	AA125425
95128	ctcctgcttcggaagccttatggta	AA125425
95129	ctgcttcggaagccttatggtagaa	AA125425
95130	cttcagttccagcttactgttaatg	AA125425
95131	cagttccagcttactgttaatgtag	AA125425
95132	gtgattgttgctttcacgggcgctt	AA125425
95133	gttgctttcacgggcgcttgtatta	AA125425
95134	ttcacgggcgcttgtattactcaag	AA125425
95135	tgtattactcaagactcgccactta	AA125425
95136	attactcaagactcgccacttaagg	AA125425

TABLE 1

SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID
9929	gtttatttgcacctgatgctcagga	M95545	52533	cttcaatcatccaatgcaggcttcc	X54239	95137	gactcgccacttaaggcggtgcaga	AA125425
9930	ctgatgctcaggagccagatgtgga	M95545	52534	ggtccttcctgcagggaatgaatttt	X54239	95138	gtactcaaaattcacacctagctag	AA124696
9931	cagagccaggcttgtaccacagctc	M95545	52535	tcctttgcagcccaaagaatttgct	X54239	95139	acctagctagtcaccgtggagttca	AA124696
9932	caggcttgtaccacagctcagaggc	M95545	52536	gcagcccaaagaatttgctgttatg	X54239	95140	caaatcttgcaagacattggagagt	AA124696
9933	tgtaccacagctcagaggcgtcaag	M95545	52537	tgagccggtctaacaaggcggcctg	X54239	95141	cttttagtgtgcgttctagcctgat	AA124696
9934	acagctcagaggcgtcaagtttcca	M95545	52538	ggagacttcttacattcttctctca	X54239	95142	gtgtgcgttctagcctgattgccca	AA124696
9935	agccttagaaccgagcaggtgaatc	M95545	52539	cattcttctctcattgtctccccaa	X54239	95143	tgcgttctagcctgattgcccatca	AA124696
9936	cagtcctaaacgtctgtgtggccaa	M95545	52540	tctctcattgtctccccaaattgcc	X54239	95144	gttctagcctgattgcccatcaagt	AA124696
9937	tggccaactcagcatctgcttccag	M95545	52541	tccccaaattgccacagggccttgg	X54239	95145	ctagcctgattgcccatcaagtaat	AA124696
9938	actcagcatctgcttccagaagttt	M95545	52542	cacagggccttggctttcagctgcc	X54239	95146	tgattgcccatcaagtaatccatac	AA124696
9939	catctgcttccagaagtttcccact	M95545	52543	gccttggctttcagctgccagtaca	X54239	95147	ttgcccatcaagtaatccatactgg	AA124696
9940	tcccacttgcagatgttcagtgcag	M95545	52544	agctgccagtacaaaccttcagcgc	X54239	95148	tcagtcagacttcaagcctttcaat	AA124696
9941	gttacagacatgcgtttgattccac	M95545	52545	aacgctatcgaagcgctgaaagaat	AA038546	95149	gtcagacttcaagcctttcaatcca	AA124696
9942	catctataacttggtgtcattgaca	M95545	52546	cgctatcgaagcgctgaaagaatat	AA038546	95150	ctagtcaccgtggagttcacagtgg	AA124696
9943	gacatacagtcttccaggtaccctc	M28821	52547	atcaaggctcgggacatcgttcctg	AA038546	95151	agacttcaagcctttcaatccatca	AA124696
9944	gagtccctggcacgctgtgactgcc	M28821	52548	caaagtcctgctagacatccgcatc	AA038546	95152	gtcaccgtggagttcacagtgggga	AA124696
9945	atccaagagggcctgcactccaggg	M28821	52549	aaagtcctgctagacatccgcatcc	AA038546	95153	gtggcaaactcttcagccaaacttc	AA124696
9946	ggcctgcactccagggactctttgc	M28821	52550	gtcctgctagacatccgcatcctct	AA038546	95154	gcaaactcttcagccaaacttcaaa	AA124696
9947	ctgcactccagggactctttgcaag	M28821	52551	gtgcgaccagtccatcctgacagga	AA038546	95155	tcttcagccaaacttcaaatcttgc	AA124696
9948	cactccagggactctttgcaagaag	M28821	52552	agagtctgtgtctgtcatcaagcac	AA038546	95156	tcagccaaacttcaaatcttgcaag	AA124696
9949	gtgcctgacaccctctgacagttcc	M28821	52553	agtctgtgtctgtcatcaagcacac	AA038546	95157	gccaaacttcaaatcttgcaagaca	AA124696
9950	cctgacaccctctgacagttccaga	M28821	52554	gtctgtgtctgtcatcaagcacaca	AA038546	95158	aaacttcaaatcttgcaagacattg	AA124696
9951	tgacagttccagagtgcaaacatgt	M28821	52555	tgtgtctgtcatcaagcacacagac	AA038546	95159	tccctcatacaactagaccgaagcg	AA124698
9952	ctggttttcattttcctggcaatca	M28821	52556	tcaagcacacagaccctgtccctga	AA038546	95160	atacaactagaccgaagcgtgacta	AA124698
9953	ttcattttcctggcaatcaataaag	M28821	52557	gctatcgaagcgctgaaagaatatg	AA038546	95161	accatctgtatgggacgagcgtgca	AA124698
9954	attttcctggcaatcaataaagcta	M28821	52558	agaatatgaacccgagatgggaaag	AA038546	95162	atctgtatgggacgagcgtgcagtc	AA124698
9955	cgctgtgactgcccaccatggggcc	M28821	52559	gaatatgaacccgagatgggaaagg	AA038546	95163	tgcagtccgtgcgagcagtggcaga	AA124698
9956	cacacccataggaatcacagactat	M28821	52560	tgaacccgagatgggaaaggtctat	AA038546	95164	agtccgtgcgagcagtggcagagaa	AA124698
9957	atcttggctgactaattcaaactct	M28821	52561	gtctatcgggctgaccgaaagtcag	AA038546	95165	gcaaacattgtatccttgatgtgtc	AA124698
9958	taattcaaactcttatctcccaact	M28821	52562	ctatcgggctgaccgaaagtcagtg	AA038546	95166	attgtatccttgatgtgtctggaaa	AA124698
9959	aactctcctcgggctgagtgaccca	M28821	52563	tatcgggctgaccgaaagtcagtgc	AA038546	95167	gtatccttgatgtgtctggaaatgc	AA124698
9960	tgacccagtgcccgtctacctcaaa	M28821	52564	gatcaaggctcgggacatcgttcct	AA038546	95168	agattgcacagctttatccaatatc	AA124698
9961	gcgactgcagctgcaatccaagagg	M28821	52565	actgctgcagaaatacctgtgtgat	AA038437	95169	cacagctttatccaatatctatttt	AA124698
9962	gcaatccaagagggcctgcactcca	M28821	52566	tccacccttgtagtgacttagaaca	AA038437	95170	aacccaaatccatggaaaatatcat	AA124698
9963	actgcatttgttgttgatgaagtga	W15873	52567	gttcttgatgctctatatgatgagg	AA038437	95171	ctagaccgaagcgtgactatgaggt	AA124698
9964	atagaaagcgccatcggtggtaatg	W15873	52568	tcttgatgctctatatgatgaggac	AA038437	95172	attatcattttgtgacttcaaggga	AA124698
9965	tggaccactaatgtcctagaacaga	W15873	52569	agagccttctacagctgggaacaga	AA038437	95173	attttgtgacttcaagggaacagat	AA124698
9966	aatgtcctagaacagactttgagcc	W15873	52570	agccttctacagctgggaacagaag	AA038437	95174	tcattgaagccggccagtataacaa	AA124698
9967	gtcctagaacagactttgagccaac	W15873	52571	ccttctacagctgggaacagaagga	AA038437	95175	ttgaagccggccagtataacaacca	AA124698
9968	cagactttgagccaactcaccaaac	W15873	52572	ttctacagctgggaacagaaggatc	AA038437	95176	gccagtataacaaccatctgtatgg	AA124698
9969	caactcaccaaactggggagaccat	W15873	52573	aaggatcctgctgaacacaggcaag	AA038437	95177	agtataacaaccatctgtatgggac	AA124698
9970	attgtgacctgtgtgatcatgcaga	W15873	52574	ggatcctgctgaacacaggcaaggg	AA038437	95178	acaaccatctgtatgggacgagcgt	AA124698
9971	gggttacactccgcaagttcctgct	W15873	52575	atcctgctgaacacaggcaagggtg	AA038437	95179	tcacaccatcgaggatgaagctctc	M10319
9972	gcaagttcctgcttctgggacagct	W15873	52576	cctgctgaacacaggcaagggtgtg	AA038437	95180	ggatgaagctctctacaacagacta	M10319
9973	ttctgggacagctccacagacggaa	W15873	52577	gacttagaacagcctgccaacctgc	AA038437	95181	tgataaggccaactactcactcaac	M10319
9974	tgggacagctccacagacggaagct	W15873	52578	cttagaacagcctgccaacctgctt	AA038437	95182	agaataccaatagccaccacagact	M10319
9975	gaaagcgccatcggtggtaatgcct	W15873	52579	tagaacagcctgccaacctgcttcg	AA038437	95183	ataccaatagccaccacagactgac	M10319
9976	aatgcctaccagcacagcaaagtca	W15873	52580	agcctgccaacctgcttcggatgtt	AA038437	95184	ggccaggtctgtcctctgattggat	M10319
9977	gcctaccagcacagcaaagtcaacc	W15873	52581	cctgccaacctgcttcggatgttct	AA038437	95185	tgtcctctgattggatatcctggct	M10319
9978	taccagcacagcaaagtcaaccagt	W15873	52582	tgccaacctgcttcggatgttcttg	AA038437	95186	attggatatcctggctaggtcccag	M10319
9979	cacagcaaagtcaaccagtggacca	W15873	52583	ccaacctgcttcggatgttcttgat	AA038437	95187	ggatatcctggctaggtcccagggg	M10319
9980	aaagtcaaccagtggaccactaatg	W15873	52584	tgcttcggatgttcttgatgctcta	AA038437	95188	tatcctggctaggtcccaggggact	M10319
9981	aaccagtggaccactaatgtcctag	W15873	52585	aggaaatgtccagcaccgagctgga	X79233	95189	taggtcccaggggacttgacaatca	M10319
9982	cagtggaccactaatgtcctagaac	W15873	52586	gaaatgtccagcaccgagctggaga	X79233	95190	gacttgacaatcatgcacatgaatt	M10319
9983	agccttcaaagatgtgttgggctct	W54339	52587	gcagagaccggccctactagagacc	X79233	95191	tgaagctctctacaacagactactg	M10319
9984	agatgtgttgggctctggcatacac	W54339	52588	agagaccggccctactagagacctg	X79233	95192	agctctctacaacagactactgaaa	M10319
9985	caagatttcacgctttgaaaagcac	W54339	52589	agaccggccctactagagacctgca	X79233	95193	catgcactttgaggtctgcccctgg	M10319
9986	gcacctgtacaatgctgcagccttc	W54339	52590	accggccctactagagacctgcaga	X79233	95194	gtccagctacctcacaggcgcctgg	M10319
9987	cctgtacaatgctgcagccttcaaa	W54339	52591	cctactagagacctgcagagctgca	X79233	95195	cagctacctcacaggcgcctgggat	M10319
9988	tgcagccttcaaagcccggaccaag	W54339	52592	tactagagacctgcagagctgcatt	X79233	95196	cgcctgggatcccaaaacgacgcat	M10319
9989	gaccaaggcccgtagtcgtgcaagg	W54339	52593	ctagagacctgcagagctgcattga	X79233	95197	ggatcccaaaacgacgcatgcggtt	M10319
9990	ggcccgtagtcgtgcaagggacaag	W54339	52594	acctgcagagctgcattgagtacca	X79233	95198	tgttcgcttcaagaatgataaggcc	M10319
9991	aatcagactggccaacgagaaggct	W54339	52595	ctgcagagctgcattgagtaccaga	X79233	95199	tgatgagatcctgttcctcttcctt	W08473
9992	cagactggccaacgagaaggctacc	W54339	52596	tttcaccatttgtggagaaacatta	X79233	95200	tgagatcctgttcctcttccttatc	W08473
9993	cgagaaggctacccataccatacca	W54339	52597	cagcaccgagctggagactggcagt	X79233	95201	caaatccgtcatcttcttcagaagc	W08473
9994	gaaggctacccataccataccatat	W54339	52598	gcagtgtcccaatccgggctgtgga	X79233	95202	atccgtcatcttcttcagaagccct	W08473
9995	ctctggcatacactatcacctccag	W54339	52599	tcccaatccgggctgtggaaaccag	X79233	95203	cgtcatcttcttcagaagccctttc	W08473
9996	tggcatacactatcacctccagaac	W54339	52600	accagaacttcgcttggagaacaga	X79233	95204	catcttcttcagaagccctttcgac	W08473

TABLE 1

SEQ ID NO	sequence	DBAxnID
9997	tcacctccagaacaatgagcttctc	W54339
9998	gaacaatgagcttctccgtgacatc	W54339
9999	gcttctccgtgacatctttggcctg	W54339
10000	ccccgtgctagtgttggatgctgct	W54339
10001	tgctgccctgaaggcctgcaagatt	W54339
10002	ctgcaagatttcacgctttgaaaag	W54339
10003	agttcctttgtgattaccattatgg	W54377
10004	tttgtgattaccattatgggttctg	W54377
10005	acccattcactcctaatctgaaggt	W54377
10006	cattcactcctaatctgaaggtgga	W54377
10007	aaattaacatcgcatcggatcctca	W54377
10008	ttaacatcgcatcggatcctcacca	W54377
10009	tcgcatcggatcctcaccaatttca	W54377
10010	cggatcctcaccaatttcactggag	W54377
10011	accaatttcactggagtgatgccgc	W54377
10012	gtcacttcctgtctgattgcgtagt	W54377
10013	acttcctgtctgattgcgtagtaac	W54377
10014	tcctgtctgattgcgtagtaactac	W54377
10015	attatgggttctgtgatgtgatccc	W54377
10016	gtgatgtgatccctcctaattgtat	W54377
10017	tgatccctcctaattgtatccagtt	W54377
10018	atttgatcctgagtgccttcccaag	W54377
10019	tcctgagtgccttcccaagaaacat	W54377
10020	tgagtgccttcccaagaaacatgag	W54377
10021	gtgccttcccaagaaacatgaggct	W54377
10022	gaaacatgaggctcccagacccatt	W54377
10023	aactaacactgaccggccagcttgg	AA120387
10024	taacactgaccggccagcttgggga	AA120387
10025	ttgacaacacagacatccatctgca	AA120387
10026	atctgcacttcccagctggagctgt	AA120387
10027	acttcccagctggagctgtcacaaa	AA120387
10028	aagatggaccatctgctggtgttac	AA120387
10029	gaccatctgctggtgttaccatagt	AA120387
10030	catctgctggtgttaccatagtaac	AA120387
10031	ttaccatagtaacttgtctcgcctc	AA120387
10032	ccatagtaacttgtctcgcctcact	AA120387
10033	gtctcgcctcacttttcagtgggcg	AA120387
10034	tgcgctcagatgtagccatgactgg	AA120387
10035	tgaccggccagcttggggacgtcat	AA120387
10036	atctcgccattagctggcttcgaag	AA120387
10037	tcgccattagctggcttcgaagcaa	AA120387
10038	atgcaaagaaataccacctgactaa	AA120387
10039	accacctgactaatgcttttggaag	AA120387
10040	gttttgatcttcttgacaacacaga	AA120387
10041	atcttcttgacaacacagacatcca	AA120387
10042	ttcttgacaacacagacatccatct	AA120387
10043	cttgtcatcaaccgagcaagcagaa	L13853
10044	atcaggcttggtgtctctgctcccc	L13853
10045	gtggacattcagctctctgagctcc	L13853
10046	attcagctctctgagctcctgtttc	L13853
10047	gagctcctgtttcttgtcaatttgc	L13853
10048	ctagttgctcattgcctctctgcat	L13853
10049	gctcattgcctctctgcattataga	L13853
10050	taagggcatctttccataagcctca	L13853
10051	catctttccataagcctcagtggca	L13853
10052	tccataagcctcagtggcactttac	L13853
10053	agcctcagtggcactttacacatat	L13853
10054	agtggcactttacacatatattcat	L13853
10055	gtctctgctccccagaatgtcactg	L13853
10056	gtggcactttacacatatattcatt	L13853
10057	gtcactgtcacaagcttcctggcca	L13853
10058	ctggccagcctgtggatagattgtt	L13853
10059	tgctggtaacccagcgtgcatagga	L13853
10060	taacccagcgtgcataggaagcatc	L13853
10061	aagcatctgtggctctagctctgtg	L13853
10062	ctctgtgttcttgcgcatgtggaca	L13853
10063	gttcttgcgcatgtggacattcagc	L13853
10064	atgcaactgtcgtatacctcgacgc	W54190
52601	cagaacttcgcttggagaacagaat	X79233
52602	ctcctggacctttaatggaacagat	X79233
52603	gagcaccgtcaggaacgcagagacc	X79233
52604	gcaccgtcaggaacgcagagaccgg	X79233
52605	tgttacgaccttggctgttttcatc	X14943
52606	gaccttggctgttttcatccctgct	X14943
52607	actgatttcccaacacatcacgact	X14943
52608	ttcccaacacatcacgactgaggca	X14943
52609	acacatcacgactgaggcattcagg	X14943
52610	tttaactcgttccaatatgccttat	X14943
52611	tcgttccaatatgccttataaacca	X14943
52612	atttaacctgattctgtgaaagttg	X14943
52613	tgccctaggctgtagagtgaaggtc	X14943
52614	caccatacacaggtgctttacatgt	X14943
52615	ctatatgtttgggttcctgcctatt	X14943
52616	ttttgaaagaccctcatcattgatg	X14943
52617	tttcatccctgctcagaggatgctc	X14943
52618	gatgctcttcatcatgggatgactg	X14943
52619	cttcatcatgggatgactgtaattc	X14943
52620	gtaattccttctaatccctgcggct	X14943
52621	tgcggctccatcctaagccaaacaa	X14943
52622	aattagactctaacaagctgttcaa	X14943
52623	actctaacaagctgttcaactgatt	X14943
52624	tgttcaactgatttcccaacacatc	X14943
52625	gagaaaccactggtacagtagccat	AA097686
52626	gaaaccactggtacagtagccatgt	AA097686
52627	tcttgactgttgttgctggcatcaa	AA097686
52628	ttgactgttgttgctggcatcaagt	AA097686
52629	ttgctggcatcaagtgcaatgggac	AA097686
52630	gaaaccatggtttgcccggcagaga	AA097686
52631	ccatggtttgcccggcagagatggg	AA097686
52632	tggacctccaggtcccatgggccct	AA097686
52633	caggtcccatgggccctcctggagg	AA097686
52634	tcccatgggccctcctggaggaatg	AA097686
52635	atgggccctcctggaggaatgccag	AA097686
52636	cctcctggaggaatgccaggtcttc	AA097686
52637	aaccactggtacagtagccatgtca	AA097686
52638	ccactggtacagtagccatgtcact	AA097686
52639	gtacagtagccatgtcactaggctc	AA097686
52640	agtagccatgtcactaggctctttg	AA097686
52641	tagccatgtcactaggctctttggc	AA097686
52642	ttcaccctcttcttgactgttgttg	AA097686
52643	caccctcttcttgactgttgttgct	AA097686
52644	ctcttcttgactgttgttgctggca	AA097686
52645	ggtctgcagtctccgatacagagac	AA038595
52646	cagtctccgatacagagaccattca	AA038595
52647	tcatcgagctggacagctgaccaga	AA038595
52648	agctggacagctgaccagagactca	AA038595
52649	actcagatcagactatggcatacca	AA038595
52650	atctcctctgatggtcagttgtgcc	AA038595
52651	atggtcagttgtgccctcttcggcg	AA038595
52652	gtgccctcttcggcgtcctgtggac	AA038595
52653	cggaacgctgcgcctctggtgatct	AA038595
52654	tgcgcctctggtgatctcagaacgg	AA038595
52655	cgcctctggtgatctcagaacggtc	AA038595
52656	cctctggtgatctcagaacggtcac	AA038595
52657	gtctccgatacagagaccattcatc	AA038595
52658	ctccgatacagagaccattcatcga	AA038595
52659	gatacagagaccattcatcgagctg	AA038595
52660	tacagagaccattcatcgagctgga	AA038595
52661	cagagaccattcatcgagctggaca	AA038595
52662	gagaccattcatcgagctggacagc	AA038595
52663	ccattcatcgagctggacagctgac	AA038595
52664	attcatcgagctggacagctgacca	AA038595
52665	ccagccatgaacatgacctgatcgc	AA038607
52666	cagccatgaacatgacctgatcgcc	AA038607
52667	tgggaccctgatctggggaaccatt	AA038607
52668	gaccctgatctggggaaccattctg	AA038607
95205	cttcttcagaagccctttcgacagg	W08473
95206	aagactgtgccaccgggctcagctc	W08473
95207	ccatcttccactcagtggtaagaca	W08473
95208	tggtaagacaccttctctccctgga	W08473
95209	taagacaccttctctccctggagct	W08473
95210	tctccctggagctcctccatcttgg	W08473
95211	cctgttcctcttccttatccagctt	W08473
95212	cttccttatccagctttttgaccag	W08473
95213	ccttatccagctttttgaccagtgg	W08473
95214	tatccagctttttgaccagtggggc	W08473
95215	gctttttgaccagtggggcactaat	W08473
95216	ggatgtccacaaatccgtcatcttc	W08473
95217	tgtccacaaatccgtcatcttcttc	W08473
95218	ccacaaatccgtcatcttcttcaga	W08473
95219	catcggtgactctgtagtagctagt	AA124801
95220	catcatgagagtcggtcctgccagc	AA124801
95221	aaagtgcagtctgatgtggctgctg	AA124801
95222	gtgcagtctgatgtggctgctgact	AA124801
95223	tgcagtctgatgtggctgctgactt	AA124801
95224	gcagtctgatgtggctgctgactta	AA124801
95225	cagtctgatgtggctgctgacttag	AA124801
95226	agtctgatgtggctgctgacttagt	AA124801
95227	tctgatgtggctgctgacttagtac	AA124801
95228	ctgatgtggctgctgacttagtacg	AA124801
95229	atgtggctgctgacttagtacgctg	AA124801
95230	gctgctgacttagtacgctgaaagt	AA124801
95231	atcatgagagtcggtcctgccagcc	AA124801
95232	ctgctgacttagtacgctgaaagtc	AA124801
95233	cctgccagcctggccagtccaggag	AA124801
95234	tgccagcctggccagtccaggagcg	AA124801
95235	gccagcctggccagtccaggagcga	AA124801
95236	ctggccagtccaggagcgagaatgt	AA124801
95237	ccagtccaggagcgagaatgttcaa	AA124801
95238	tcaaagtgcagtctgatgtggctgc	AA124801
95239	caaagtgcagtctgatgtggctgct	AA124801
95240	agacttcaccattgagtgcacggtg	AA124859
95241	cttcaccattgagtgcacggtgtcc	AA124859
95242	tctcaacttttcctgccaggctgag	AA124859
95243	caacttttcctgccaggctgagctg	AA124859
95244	cttttcctgccaggctgagctggat	AA124859
95245	ctgccaggctgagctggatctacgg	AA124859
95246	acggccccatggatggtatatcatc	AA124859
95247	atggtatatcatccgcagcatctcg	AA124859
95248	gtatatcatccgcagcatctcggag	AA124859
95249	catccgcagcatctcggagtaacag	AA124859
95250	ccgcagcatctcggagtaacagatt	AA124859
95251	cagcatctcggagtaacagattctt	AA124859
95252	tctgctccgtggcagagagaccctg	AA124859
95253	agaggccacagccacgttcaacagc	AA124859
95254	cacagccacgttcaacagcacagct	AA124859
95255	cacgttcaacagcacagctctgaaa	AA124859
95256	gttcaacagcacagctctgaaaaag	AA124859
95257	caacagcacagctctgaaaaaggac	AA124859
95258	cagcacagctctgaaaaaggacggt	AA124859
95259	cggtctcaacttttcctgccaggct	AA124859
95260	aatctattgatgtcaggaggaagat	AA124924
95261	agatcatcaaagacaaactcctctg	AA124924
95262	tgggcttcttcaatatgtaaaacaa	AA124924
95263	acaaggctgctgacctgacgaaggc	AA124924
95264	aggctgctgacctgacgaaggcgtt	AA124924
95265	ctgctgacctgacgaaggcgtttat	AA124924
95266	ctgacctgacgaaggcgtttattag	AA124924
95267	aatgcttgcagacctttcatccaat	AA124924
95268	agacctttcatccaatcctctgctt	AA124924
95269	cctttcatccaatcctctgcttgtt	AA124924
95270	ttcatccaatcctctgcttgttctg	AA124924
95271	atccaatcctctgcttgttctggag	AA124924
95272	tcatcaaagacaaactcctctgacc	AA124924

TABLE 1

SEQ ID NO	sequence	DBAxnID
10065	gcaactgtcgtatacctcgacgcta	W54190
10066	ggcccatgtatattcaccaatattt	W54190
10067	cccatgtatattcaccaatattttc	W54190
10068	tgtatattcaccaatattttcacta	W54190
10069	tatattcaccaatattttcactatg	W54190
10070	tattcaccaatattttcactatgta	W54190
10071	ccaatattttcactatgtatggcga	W54190
10072	aatattttcactatgtatggcgagt	W54190
10073	tattttcactatgtatggcgagtag	W54190
10074	ttttcactatgtatggcgagtagct	W54190
10075	atatcgagtacgtcattatacatgc	W54190
10076	aactgtcgtatacctcgacgctatg	W54190
10077	ctgtcgtatacctcgacgctatgaa	W54190
10078	cgtatacctcgacgctatgaagtct	W54190
10079	tatacctcgacgctatgaagtctga	W54190
10080	tacctcgacgctatgaagtctgatg	W54190
10081	cctcgacgctatgaagtctgatgca	W54190
10082	atgaagtctgatgcagtgggcccat	W54190
10083	tgatgcagtgggcccatgtatattc	W54190
10084	agttatcgtcgcaaggcactgtggg	X56548
10085	cgtcgcaaggcactgtgggctccgt	X56548
10086	tactgttctaatgcccagtcttctt	X56548
10087	tctaatgcccagtcttcttgcttag	X56548
10088	tgcttagttgccttctcaaattaac	X56548
10089	ctttcattcctctggaagagctgga	X56548
10090	ttcctctggaagagctggagcccat	X56548
10091	tatatgccttcaaacagtaccttct	X56548
10092	accttctacatcttggagatgacag	X56548
10093	gacatgttctgggctcagtctaaag	X56548
10094	ttctgggctcagtctaaagccataa	X56548
10095	tctaaagccataaggaccaaagatc	X56548
10096	tggtttctcactcattacgaacaag	X56548
10097	gaaagcagctgcacagacattggaa	X56548
10098	agctgcacagacattggaaaggttt	X56548
10099	gtagctctctactctgtttccttga	X56548
10100	ctctactctgtttccttgatgaagt	X56548
10101	tctgtttccttgatgaagtcactag	X56548
10102	tcactagtctctgttcttagatcct	X56548
10103	ttgttctactgttctaatgcccagt	X56548
10104	caaagcccctcatttgtcacttgaa	U21673
10105	aagcccctcatttgtcacttgaatt	U21673
10106	cagagtcttacgtggtattggcctt	U21673
10107	gtcttacgtggtattggccttggtg	U21673
10108	attggccttggtgtttgctctctat	U21673
10109	tggccttggtgtttgctctctattg	U21673
10110	cttggtgtttgctctctattgtgaa	U21673
10111	tggtgtttgctctctattgtgaata	U21673
10112	gtttgctctctattgtgaatagctc	U21673
10113	ttgctctctattgtgaatagctcag	U21673
10114	atagctcaggaccagcattttcacc	U21673
10115	agctcaggaccagcattttcacccc	U21673
10116	ccctcatttgtcacttgaattggca	U21673
10117	ctcatttgtcacttgaattggcaga	U21673
10118	tttgtcacttgaattggcagatgga	U21673
10119	aatattggcagcagtcaaagaattt	U21673
10120	agaatttgcataccatcgttataaa	U21673
10121	taaatattgccagcagatggatctg	U21673
10122	tattgccagcagatggatctgggat	U21673
10123	ttgccagcagatggatctgggatgt	U21673
10124	agcgcctttgcacaaatgctttag	M26071
10125	gccttttgcacaaatgctttagatt	M26071
10126	gatatttctgcttggggcatctttg	M26071
10127	atttctgcttggggcatctttgtga	M26071
10128	tctgcttggggcatctttgtgattt	M26071
10129	tgtactttcctacaatttagcactt	M26071
10130	ttcctacaatttagcactttaactg	M26071
10131	caatttagcactttaactgacaatg	M26071
10132	agcactttaactgacaatgatgggg	M26071

SEQ ID NO:	sequence	DBAxnID
52669	atctggggaaccattctgggactgg	AA038607
52670	ccgctggtgtggccgctgatactgt	AA038607
52671	tgtggccgctgatactgtgcgctgc	AA038607
52672	tggccgctgatactgtgcgctgcgc	AA038607
52673	ggccgctgatactgtgcgctgcgct	AA038607
52674	ccgctgatactgtgcgctgcgctgc	AA038607
52675	cgctgatactgtgcgctgcgctgcc	AA038607
52676	atactgtgcgctgcgctgcccgtcc	AA038607
52677	gccatgaacatgacctgatcgccgg	AA038607
52678	atgaacatgacctgatcgccggttc	AA038607
52679	tgaacatgacctgatcgccggttcc	AA038607
52680	acatgacctgatcgccggttcctct	AA038607
52681	atgacctgatcgccggttcctcttc	AA038607
52682	cttctcgctgtctgggaccctgatc	AA038607
52683	ctgtctgggaccctgatctggggaa	AA038607
52684	tctgggaccctgatctggggaacca	AA038607
52685	acatctaaggctgcaagggcaaatg	AA038618
52686	agggcaaatgcggcctcaatgaggg	AA038618
52687	atacttgtctgcacagacatcgcct	AA038618
52688	ggcctagacagtgtccacgtggaag	AA038618
52689	ctagacagtgtccacgtggaagtgg	AA038618
52690	agtgtccacgtggaagtggttatca	AA038618
52691	cctaccctgcaggattacatccaca	AA038618
52692	accctgcaggattacatccacagag	AA038618
52693	ctgcaggattacatccacagagcag	AA038618
52694	caggattacatccacagagcaggaa	AA038618
52695	gattacatccacagagcaggaaggg	AA038618
52696	tacatccacagagcaggaagggtgg	AA038618
52697	gcaaatgcggcctcaatgagggcag	AA038618
52698	aatgcggcctcaatgagggcaggta	AA038618
52699	atcttccagagtttccagaagggct	AA038618
52700	ttccagaagggctcccagaacatac	AA038618
52701	aagggctcccagaacatacttgtct	AA038618
52702	ggctcccagaacatacttgtctgca	AA038618
52703	tcccagaacatacttgtctgcacag	AA038618
52704	aacatacttgtctgcacagacatcg	AA038618
52705	gcagctagtgcagctcagaacacac	X61451
52706	gctcagaacacaccaagtggtacca	X61451
52707	gctggcctcaacgttggctcattgg	X61451
52708	atggctgctttgaatggtggtctgg	X61451
52709	ggtctgggcagcagtggcctttcca	X61451
52710	acccaggcgtattctggtatcagca	X61451
52711	atcagcaatatgctgctgctgcagc	X61451
52712	atttattgacacagcagagtattgg	X61451
52713	aaggagccaacctgttcatctatca	X61451
52714	gagaccaggacttactgcagatgtt	X61451
52715	aggacttactgcagatgtttatgcc	X61451
52716	ttatgccctttgggaatgtcgtgtc	X61451
52717	aacacaccaagtggtaccaatgctc	X61451
52718	ggtaccaatgctctcactacatcca	X61451
52719	tcaccgagctccagcagcagtaatt	X61451
52720	agctccagcagcagtaattctgtca	X61451
52721	atagcctcacttggagccctgcaaa	X61451
52722	tcacttggagccctgcaaacattgg	X61451
52723	ggagccctgcaaacattggccggag	X61451
52724	acattggccggagcaacagctggcc	X61451
52725	tcctgtggattctcccatcagccat	X61399
52726	ggattctcccatcagccatttggtc	X61399
52727	gaattcttagtctcttgtgctgtgc	X61399
52728	gctgtgcctagtggcacctgggctg	X61399
52729	gacattgccccatctgggtttttat	X61399
52730	tcttactcaagttcaaacctccagc	X61399
52731	tcaagttcaaacctccagcttgtga	X61399
52732	tcaaacctccagcttgtgaaatcaa	X61399
52733	aaatcaaccatgtccctgacttgat	X61399
52734	accatgtccctgacttgataagcaa	X61399
52735	tccctgacttgataagcaagtgtta	X61399
52736	atgtgaaacaacttcttgttgtctt	X61399

SEQ ID NO	sequence	DBAxnID
95273	caatcctctgcttgttctggagttt	AA124924
95274	tcaaagacaaactcctctgaccata	AA124924
95275	aagacaaactcctctgaccatactg	AA124924
95276	tctgaccatactgggttttgcccct	AA124924
95277	tcccttgcatgagtttttgctactt	AA124924
95278	gctacttggacgctattcaagtaga	AA124924
95279	acttggacgctattcaagtagatgt	AA124924
95280	ttatgggcttcttcaatatgtaaaa	AA124924
95281	gtcaactatgccagcgtcaccagga	AA116604
95282	aactatgccagcgtcaccaggaacc	AA116604
95283	tgtcattgactgtggcaatgctggc	AA116604
95284	tggcaatgctggctcttgtgaaggg	AA116604
95285	gtatgcccacaagcatggcatcccc	AA116604
95286	tgcccacaagcatggcatccccgat	AA116604
95287	caagcatggcatccccgatgagacc	AA116604
95288	gcatggcatccccgatgagacctgc	AA116604
95289	tggcatccccgatgagacctgcaac	AA116604
95290	cgatgagacctgcaacaactaccag	AA116604
95291	tgagacctgcaacaactaccaggcc	AA116604
95292	ctgcaacaactaccaggccaaggac	AA116604
95293	gccagcgtcaccaggaaccagcaca	AA116604
95294	aggaaccagcacatcccacagtact	AA116604
95295	cagcacatcccacagtactgtggtt	AA116604
95296	tgggcccacggagcaccagtgccat	AA116604
95297	gcccacggagcaccagtgccatgga	AA116604
95298	cacggagcaccagtgccatggagac	AA116604
95299	gcaccagtgccatggagaccgaatc	AA116604
95300	ccagtgccatggagaccgaatcaac	AA116604
95301	cactctgtacctggctgcgggcgcc	W08486
95302	gcctgcttctggccaccgcgcggat	W08486
95303	cattcttaccggagagtcttgattt	W08486
95304	ttcttaccggagagtcttgatttat	W08486
95305	cttaccggagagtcttgatttattg	W08486
95306	tcctggaatgtaccctccgaatagc	W08486
95307	ctggaatgtaccctccgaatagcaa	W08486
95308	ggaatgtaccctccgaatagcaaat	W08486
95309	aatgtaccctccgaatagcaaatgt	W08486
95310	tgtaccctccgaatagcaaatgtac	W08486
95311	taccctccgaatagcaaatgtactt	W08486
95312	ccctccgaatagcaaatgtacttgg	W08486
95313	ctgcttctggccaccgcgcggatgg	W08486
95314	agacgccagagagacctgttttcgc	W08486
95315	gacctgttttcgcatgtggcggcat	W08486
95316	cctgttttcgcatgtggcggcattc	W08486
95317	cgcatgtggcggcattcttaccgga	W08486
95318	tggcggcattcttaccggagagtct	W08486
95319	gcggcattcttaccggagagtcttg	W08486
95320	ggcattcttaccggagagtcttgat	W08486
95321	gttcccaggtacaacaaacgctcat	L13204
95322	cccaggtacaacaaacgctcattag	L13204
95323	tcacctgcacaagggaggctacaaa	L13204
95324	ctacaaaccttccagcctgacttga	L13204
95325	caaaccttccagcctgacttgaggc	L13204
95326	accttccagcctgacttgaggctaa	L13204
95327	cagcctgacttgaggctaagagcat	L13204
95328	ttgggtcaggggcagccaagctgct	L13204
95329	tgcccggctcactgggaacactggg	L13204
95330	gctcactgggaacactggggccagg	L13204
95331	tctatactagggggaccaggccttg	L13204
95332	cccctggagctgggacctgaatcta	L13204
95333	tacaacaaacgctcattagatgata	L13204
95334	ccctggcagccttggccagggagag	L13204
95335	gaaatggtctctaagcccgctaggc	L13204
95336	atggtctctaagcccgctaggcctt	L13204
95337	tctaagcccgctaggcctttccctg	L13204
95338	aggcctttccctggtccatcacctg	L13204
95339	ttccctggtccatcacctgcacaag	L13204
95340	ccatcacctgcacaagggaggctac	L13204

TABLE 1

SEQ ID NO	sequence	DBAxnID
10133	taaacatttgacagccaactctatt	M26071
10134	acatttgacagccaactctattttt	M26071
10135	tatacgactactatacaaagaaact	M26071
10136	ttttgcacaaatgctttagattgta	M26071
10137	tgtatggtctacactcaggaagaca	M26071
10138	atggtctacactcaggaagacacta	M26071
10139	tacactcaggaagacactaggtcac	M26071
10140	actaggtcacccaggcaaagccagt	M26071
10141	aggtcacccaggcaaagccagtgga	M26071
10142	tggacagatgcctttcatataacct	M26071
10143	acagatgcctttcatataacctggg	M26071
10144	cctgcagggtcactcgatttcattc	
10145	gggtcactcgatttcattcaaggcc	
10146	tgagctttctctgctgctactggat	
10147	ttctctgctgctactggatcacatt	
10148	gctgctactggatcacatttgcttt	
10149	actggatcacatttgctttgtgttg	
10150	tcacatttgctttgtgttgttactg	
10151	cctccgctgggttcctgctgtcatt	
10152	ctgggttcctgctgtcattaaaagg	
10153	tcctgctgtcattaaaaggtgtcgc	
10154	agccatctactgtaagttgtgcatt	
10155	atatttaaaacatgctacaatcagt	
10156	ttcattcaaggccttccgaatttgg	
10157	aatgtagttgccacgcacagacggt	
10158	acgcacagacggtgtctagcaatca	
10159	gcaatcatggcgctcgctcgctcag	
10160	ctcgctcgctcagctgcactctatg	
10161	cgctcagctgcactctatggctcag	
10162	ctctatggctcaggtgcagtgtctt	
10163	gtgtcttgagctttctctgctgcta	
10164	tcgatttcattcaaggccttccgaa	
10165	agttgccacgcacagacggtgtcta	
10166	gttgccacgcacagacggtgtctag	
10167	tcgatttcattcaaggccttccgaa	
10168	agttgccacgcacagacggtgtcta	
10169	gttgccacgcacagacggtgtctag	
10170	ataaaaaacacatgaacttatcaat	
10171	aaaaaacacatgaacttatcaatat	
10172	aaaaacacatgaacttatcaatatt	
10173	aaaacacatgaacttatcaatattt	
10174	aacacatgaacttatcaatatttaa	
10175	gttcgggctaagcctgctgtccgtg	L09600
10176	atagttaacttgccggtagatgact	L09600
10177	caacagctggcagagctgtaccatg	L09600
10178	gatattttccagcatcttcgggatg	L09600
10179	ttccagcatcttcgggatgaatctg	L09600
10180	catcttcgggatgaatctggcaaca	L09600
10181	ggcaacagttactcaccagaggaat	L09600
10182	caggctgctgatggtgccatctttc	L09600
10183	ggtgccatctttctggtaccccgtg	L09600
10184	tgagctggtctagagagtggacact	L09600
10185	tggtgctagagactccctcattccc	L09600
10186	cacaatggatctcgaggtcgaggga	L09600
10187	aacttgccggtagatgactttaatg	L09600
10188	gatctcgaggtcgagggatctctag	L09600
10189	ttggcacagtatccgctaacggaga	L09600
10190	agccagctggctctagttcgggaca	L09600
10191	ctggctctagttcgggacatccgtc	L09600
10192	gtggcagcccaaaactgtcgcaaga	L09600
10193	gaggctgaccgcactctggaggtca	L09600
10194	gaccgcactctggaggtcatgcgcc	L09600
10195	actctggaggtcatgcgccaacagc	L09600
10196	ccagggactatccacaagctactca	M55154
10197	cacaagctactcacacagtgcctag	M55154
10198	tgggtcatcatcccaagttagccca	M55154
10199	acctctctgtggctgggccctcaac	M55154
10200	gtcagagtctctggatcccctgaaa	M55154

SEQ ID NO:	sequence	DBAxnID
52737	ttctcccatcagccatttggtctta	X61399
52738	tcccatcagccatttggtcttactc	X61399
52739	cagccatttggtcttactcttaagg	X61399
52740	cttactcttaaggccagttgaagat	X61399
52741	gcaattgctgggtttccaattcttt	X61399
52742	gcttatactcccaaaccctgagtgt	X61399
52743	tccagcctttcccctgttgaattct	X61399
52744	tcccctgttgaattcttagtctctt	X61399
52745	catttgtagtggtctcgtcgtcagc	AA038626
52746	tttgtagtggtctcgtcgtcagcgc	AA038626
52747	gctctacacacaagcaactatgact	AA038626
52748	ttgatatcagcaccagatacgtcct	AA038626
52749	gatatcagcaccagatacgtcctgt	AA038626
52750	agatacgtcctgtgtgggtgtcttc	AA038626
52751	agattaatctggggatgcggccaag	AA038626
52752	attaatctggggatgcggccaagaa	AA038626
52753	aacctcaccaacacagtgtttagat	AA038626
52754	cctcaccaacacagtgtttagatgc	AA038626
52755	tcaccaacacagtgtttagatgcca	AA038626
52756	accaacacagtgtttagatgccaaa	AA038626
52757	tagtggtctcgtcgtcagcgcactg	AA038626
52758	gtcgtcagcgcactgagctctacac	AA038626
52759	cgtcagcgcactgagctctacacac	AA038626
52760	tcagcgcactgagctctacacacaa	AA038626
52761	agcgcactgagctctacacacaagc	AA038626
52762	cactgagctctacacacaagcaact	AA038626
52763	ctgagctctacacacaagcaactat	AA038626
52764	gagctctacacacaagcaactatga	AA038626
52765	ttttctaccgtgtggcatttgccac	X13135
52766	tcgtttctccattaaattctcatat	X13135
52767	gggccatcctgactctgcggaccgc	X13135
52768	tcctgactctgcggaccgcaccggg	X13135
52769	gcactgactgtctgttttccaagac	X13135
52770	tgttttccaagacgaaaatgatgct	X13135
52771	tttgacttttctgcagctgtcagtg	X13135
52772	ttttctgcagctgtcagtgtgaaga	X13135
52773	acaccaacctggtaaaaatgctgct	X13135
52774	tcttgatgctctcctgatcccacaa	X13135
52775	tgctctcctgatcccacaattaaac	X13135
52776	cctgatcccacaattaaactgcacg	X13135
52777	tttattgcattgctgggaaagaccc	X13135
52778	agtttctagactcaatacacaggct	X13135
52779	tagactcaatacacaggctgctggc	X13135
52780	caatacacaggctgctggctggagc	X13135
52781	tgctggctggagccccttttgtct	X13135
52782	cagcagacactgtagcccgtggccc	X13135
52783	cggctgccccatgatgcagggccat	X13135
52784	ccccatgatgcagggccatcctgac	X13135
52785	tctccacttcaccgaacatctaaga	AA038675
52786	ctccacttcaccgaacatctaagag	AA038675
52787	atctaagagagtcgcgccgccgcga	AA038675
52788	cagatcgactggatggcgagacata	AA038675
52789	agatcgactggatggcgagacatag	AA038675
52790	acatagggctgtggtttctgcttct	AA038675
52791	acggtaccaccagaggaggtgtgca	AA038675
52792	cggtaccaccagaggaggtgtgcag	AA038675
52793	gtaccaccagaggaggtgtgcagct	AA038675
52794	taccaccagaggaggtgtgcagctc	AA038675
52795	accaccagaggaggtgtgcagctcc	AA038675
52796	ccaccagaggaggtgtgcagctccg	AA038675
52797	tccacttcaccgaacatctaagaga	AA038675
52798	ccacttcaccgaacatctaagagag	AA038675
52799	cacttcaccgaacatctaagagagt	AA038675
52800	acttcaccgaacatctaagagagtc	AA038675
52801	cttcaccgaacatctaagagagtcg	AA038675
52802	ttcaccgaacatctaagagagtcgc	AA038675
52803	tcaccgaacatctaagagagtcgcg	AA038675
52804	catctaagagagtcgcgccgccgcg	AA038675

SEQ ID NO	sequence	DBAxnID
95341	agactgttggacactgtggcatctc	AA125130
95342	actgtggcatctcagactacttggc	AA125130
95343	tgtctacctcgttaacaaacagcac	AA125130
95344	cctcgttaacaaacagcactggtgt	AA125130
95345	taacaaacagcactggtgttccaac	AA125130
95346	acagcactggtgttccaactcctgc	AA125130
95347	cccccaaaacaatcattgctgcttc	AA125130
95348	ccaaaacaatcattgctgcttcttt	AA125130
95349	tcattgctgcttctttgttcatggc	AA125130
95350	gtgtcatcagcaacggcctctatct	AA125130
95351	tcatcagcaacggcctctatctatg	AA125130
95352	tcagcaacggcctctatctatggat	AA125130
95353	gtggcatctcagactacttggcatg	AA125130
95354	acggcctctatctatggatgctgca	AA125130
95355	tctcagactacttggcatgaagaca	AA125130
95356	cagactacttggcatgaagacacag	AA125130
95357	catgaagacacagctctgaggtaat	AA125130
95358	gaagacacagctctgaggtaattat	AA125130
95359	ccactcatgtgatcaatgtgtctac	AA125130
95360	tcaatgtgtctacctcgttaacaaa	AA125130
95361	atgtgtctacctcgttaacaaacag	AA125130
95362	agccaatacaactgatccagggagg	AA125218
95363	ccaatacaactgatccagggaggaa	AA125218
95364	aagtagcttgtggcgctggtcgaga	AA125218
95365	agcttgtggcgctggtcgagagcac	AA125218
95366	cttgtggcgctggtcgagagcacac	AA125218
95367	tggcgctggtcgagagcacacaata	AA125218
95368	cacacaatagcgaattcccaaggag	AA125218
95369	cacaatagcgaattcccaaggagcc	AA125218
95370	aggagcctaccaagaggcgtcttga	AA125218
95371	gagcctaccaagaggcgtcttgata	AA125218
95372	gcctaccaagaggcgtcttgatatc	AA125218
95373	ctaccaagaggcgtcttgatatcag	AA125218
95374	aatacaactgatccagggaggaagg	AA125218
95375	tacaactgatccagggaggaaggtc	AA125218
95376	caactgatccagggaggaaggtctg	AA125218
95377	gaaggtctgctgtctggaagtgaag	AA125218
95378	gattaggtccggtagcttgatgaag	AA125218
95379	ttaggtccggtagcttgatgaagta	AA125218
95380	aggtccggtagcttgatgaagtagc	AA125218
95381	tgaagtagcttgtggcgctggtcga	AA125218
95382	cagccttgcgggatggaggcgactt	AA051557
95383	actttggagcagcatttggaggaca	AA051557
95384	ctgtcggatgagcacgctggagtca	AA051557
95385	tcggatgagcacgctggagtcatat	AA051557
95386	gatgagcacgctggagtcatatctg	AA051557
95387	gtcatatctgttctagcccagcagg	AA051557
95388	atatctgttctagcccagcaggcag	AA051557
95389	tctgttctagcccagcaggcagcta	AA051557
95390	gcccagcaggcagctaggctaacct	AA051557
95391	gcagctaggctaacctctgacccca	AA051557
95392	cccaccgacatccctgtggtatgtt	AA051557
95393	gacatccctgtggtatgtttagaat	AA051557
95394	ccatccattgttggagtcctatgca	AA051557
95395	tccattgttggagtcctatgcacag	AA051557
95396	ctatgcacagattcacaaggactta	AA051557
95397	ggacttaatctgggctgccgtggta	AA051557
95398	aatctgggctgccgtggtaccctgt	AA051557
95399	tgccgtggtaccctgtcggatgagc	AA051557
95400	ggtaccctgtcggatgagcacgctg	AA051557
95401	accctgtcggatgagcacgctggag	AA051557
95402	tttgtgctattgctaactgcgcaaa	L23801
95403	ctattgctaactgcgcaaacatacc	L23801
95404	tttaaactcagaggatctggaaggc	L23801
95405	aggcattctttcttcaatacatctg	L23801
95406	cattctttcttcaatacatctgaat	L23801
95407	aatacatctgaatggctaaggtttg	L23801
95408	cacagtcactgtatacaggaggaag	L23801

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10201	cctgaaatcccggagaagagcctgg	M55154	52805	aatatcagcaggaactttgtcacca	AA038677	95409	gttataagatgcccacttcagtttg	L23801
10202	catttaacgcgttctgctttacaca	M55154	52806	ctttgtcaccaacagcaatttccac	AA038677	95410	agatgcccacttcagtttgaattcc	L23801
10203	tctgctttacacagaggatcgcacc	M55154	52807	ctatatcaccaggaactatgtcttt	AA038677	95411	ccacttcagtttgaattccagataa	L23801
10204	ttacacagaggatcgcaccgtgagc	M55154	52808	atatcaccaggaactatgtctttag	AA038677	95412	gatttgtctctgtgaaacatctgga	L23801
10205	tcgcaccgtgagccgtgctatctgt	M55154	52809	atcaccaggaactatgtctttagct	AA038677	95413	ttgtctctgtgaaacatctggaaca	L23801
10206	gtctgtgcaagcttcaggttccaag	M55154	52810	tgtctttagctttaattcgttgcac	AA038677	95414	ttgctaactgcgcaaacataccctg	L23801
10207	gcaagcttcaggttccaagcaggca	M55154	52811	tctttagctttaattcgttgcacac	AA038677	95415	ctaactgcgcaaacataccctgtat	L23801
10208	ctactcacacagtgcctagactaga	M55154	52812	tagctttaattcgttgcacactctt	AA038677	95416	aatttgcatcctcatgtattttatg	L23801
10209	acacagtgcctagactagatttcac	M55154	52813	cagcatttctttcctgcaacaaacc	AA038677	95417	ttgcatcctcatgtattttatgtaa	L23801
10210	gagccttaaatatccacgctggtcg	M55154	52814	ttctttcctgcaacaaacccacgat	AA038677	95418	tatgtaacctgtgcacatgcatttt	L23801
10211	taaatatccacgctggtcgctaatc	M55154	52815	ctttcctgcaacaaacccacgattg	AA038677	95419	acctgtgcacatgcatttttatcac	L23801
10212	ccagcagcctctagacacagcacgt	M55154	52816	ttcctgcaacaaacccacgattgca	AA038677	95420	atgcaatctttcacatgtgttataa	L23801
10213	agacacagcacgtgtctccagaaaa	M55154	52817	gtcaccaacagcaatttccactata	AA038677	95421	agcaacacttatttccatcagggtt	L23801
10214	agcacgtgtctccagaaaagcgtgg	M55154	52818	cctgcaacaaacccacgattgcatt	AA038677	95422	tagagagcttgcgctatgtgctcat	AA125275
10215	gaagcctgtgtgtgggtcatcatcc	M55154	52819	caccaacagcaatttccactatatc	AA038677	95423	tgcgctatgtgctcatgtacgtcaa	AA125275
10216	gcagacaacatgatccggatctcag	L10385	52820	aacagcaatttccactatatcacca	AA038677	95424	cgctgcacgcacagcgctcgaaagc	AA125275
10217	aacatgatccggatctcagccgttt	L10385	52821	cagcaatttccactatatcaccagg	AA038677	95425	tgcacgcacagcgctcgaaagcagc	AA125275
10218	ctcgctgacttttcctgcaataaat	L10385	52822	gcaatttccactatatcaccaggaa	AA038677	95426	cacagcgctcgaaagcagctgccag	AA125275
10219	tcctgcaataaattccctacaatca	L10385	52823	aatttccactatatcaccaggaact	AA038677	95427	cgaaagcagctgccaggcgtcagaa	AA125275
10220	acaatcaaggccatgctgcccattg	L10385	52824	tttccactatatcaccaggaactat	AA038677	95428	cagctgccaggcgtcagaagtacga	AA125275
10221	cccattgatgtctctgagtgaccga	L10385	52825	tccactatatcaccaggaactatgt	AA038677	95429	ctgccaggcgtcagaagtacgagcg	AA125275
10222	tctgagtgaccgacccagcagcact	L10385	52826	gtccctgttaagtggactgcccctg	X12616	95430	agtacgagcgcattagcgacaagag	AA125275
10223	cggtgacacagaccagacagcgctc	L10385	52827	tacggacgctactcctcagagagtg	X12616	95431	tgtctgcgccaatcgatggcgtatg	AA125275
10224	cacagaccagacagcgctctcctgt	L10385	52828	ctcatggagcagtgctgggcctatg	X12616	95432	ctgcgccaatcgatggcgtatgcaa	AA125275
10225	gaaactgttgcctatgttgtccagc	L10385	52829	tgctgggcctatgagcctgggcaga	X12616	95433	cgccaatcgatggcgtatgcaaacg	AA125275
10226	gttgcctatgttgtccagcctgaga	L10385	52830	agacctagtttcagcatcatctgcc	X12616	95434	gctatgtgctcatgtacgtcaacct	AA125275
10227	aggctgccagacatggacttctagc	L10385	52831	agtttcagcatcatctgccaggagc	X12616	95435	atgtgctcatgtacgtcaacctagg	AA125275
10228	gccgtttgcaaggtgcccgatgagg	L10385	52832	atctgccaggagctccacagtatcc	X12616	95436	tcatgtacgtcaacctaggatcgct	AA125275
10229	ctggataatcctgctttgaccctgg	L10385	52833	caggagctccacagtatccgcaagc	X12616	95437	tgtacgtcaacctaggatcgctgca	AA125275
10230	aatcctgctttgaccctggaggtgc	L10385	52834	agtatccgcaagcggcatcggtgag	X12616	95438	acgtcaacctaggatcgctgcacgc	AA125275
10231	accctggaggtgctggaacaggctc	L10385	52835	cactcactgctggacagctccaaga	X12616	95439	tcaacctaggatcgctgcacgcaca	AA125275
10232	catgtgcggaagcccgtgaacgtgc	L10385	52836	gacagctccaagaccagggttccaa	X12616	95440	taggatcgctgcacgcacagcgctc	AA125275
10233	aagtcccgcatccgatttgagattt	L10385	52837	ttcttcctgcccaaattcctctctt	X12616	95441	gatcgctgcacgcacagcgctcgaa	AA125275
10234	agtggcaccaagcaactgctcgctg	L10385	52838	cgctactcctcagagagtgatgtgt	X12616	95442	catagtgctcgtagcaacgctctgt	AA125293
10235	accaagcaactgctcgctgacttttt	L10385	52839	tttggcattttgctgtgggagacct	X12616	95443	tgccacctcattcatttactgaaat	AA125293
10236	acacacagtacagcaagggatcagc	L42462	52840	gagaccttcagcctgggggcctcac	X12616	95444	tagagtccacggctgttgatcaccg	AA125293
10237	ggataccaactattgcttcagacgg	L42462	52841	ctcaccaatcagcagacacgggagt	X12616	95445	agtccacggctgttgatcaccgcta	AA125293
10238	tattgcttcagacggaatacagggc	L42462	52842	aatcagcagacacgggagtttgtag	X12616	95446	ctgttgatcaccgctaccagtgtag	AA125293
10239	attgcttcagacggaatacagggct	L42462	52843	ccttgcccagagctgtgccctgatg	X12616	95447	ttgatcaccgctaccagtgtagcaa	AA125293
10240	ttgcttcagacggaatacagggctt	L42462	52844	ctgtgccctgatgcggtcttcaggc	X12616	95448	accgctaccagtgtagcaatcgttc	AA125293
10241	tgcttcagacggaatacagggcttt	L42462	52845	ttcaggctcatggagcagtgctggg	X12616	95449	gtagcaatcgttcaggttcgcagag	AA125293
10242	gcttcagacggaatacagggctttc	L42462	52846	atggactgcccggcttggaccatgt	AA038505	95450	gcaatcgttcaggttcgcagagcag	AA125293
10243	ctgaaccaaggagccatctatgaga	L42462	52847	gactgcccggcttggaccatgtaac	AA038505	95451	caggttcgcagagcagtcgagttac	AA125293
10244	tgaaccaaggagccatctatgagaa	L42462	52848	tttctattccagtagatccagagtg	AA038505	95452	gttcgcagagcagtcgagttactgg	AA125293
10245	gaaccaaggagccatctatgagaaa	L42462	52849	ctattccagtagatccagagtggcg	AA038505	95453	gagttactggacgtctggggtcagc	AA125293
10246	aaccaaggagccatctatgagaaaa	L42462	52850	tagatccagagtggcgagataacca	AA038505	95454	tagatatcactcaagacttactgga	AA125293
10247	accaaggagccatctatgagaaaac	L42462	52851	gagataaccaggccagccacgtagc	AA038505	95455	atatcactcaagacttactggatcc	AA125293
10248	gataccaactattgcttcagacgga	L42462	52852	ataaccaggccagccacgtagccaa	AA038505	95456	tcactcaagacttactggatcctct	AA125293
10249	ataccaactattgcttcagacggaa	L42462	52853	ccagccacgtagccaaaaggtcgct	AA038505	95457	acttactggatcctcttgaagaatg	AA125293
10250	taccaactattgcttcagacggaat	L42462	52854	gccacgtagccaaaaggtcgctccg	AA038505	95458	tactggatcctcttgaagaatggaa	AA125293
10251	accaactattgcttcagacggaata	L42462	52855	tagccaaaaggtcgctccgagtgta	AA038505	95459	aagtgcattcttggttagagtccac	AA125293
10252	ccaactattgcttcagacggaatac	L42462	52856	ttgagatctaaaccaaccgatgctt	AA038505	95460	attcttggttagagtccacggctgt	AA125293
10253	caactattgcttcagacggaataca	L42462	52857	tctaaaccaaccgatgctttattat	AA038505	95461	ggttagagtccacggctgttgatca	AA125293
10254	actattgcttcagacggaatacagg	L42462	52858	tgcccggcttggaccatgtaacttc	AA038505	95462	ctgacatcactgctggacccactga	AA125241
10255	ctattgcttcagacggaatacaggg	L42462	52859	tggaccatgtaacttctgcacaccc	AA038505	95463	tcactgctggacccactgatattgc	AA125241
10256	ttacgattcggctcctgtgatgtct	W54584	52860	accatgtaacttctgcacaccctta	AA038505	95464	ttgccagaacagcactgatctttac	AA125241
10257	gattcggctcctgtgatgtcttgtg	W54584	52861	cttctgcacaccctatggaatctg	AA038505	95465	gaacagcactgatctttacgagacc	AA125241
10258	ctctctaaaagctgatcggtgacat	W54584	52862	ctgcacaccctatggaatctgcac	AA038505	95466	ccagcgctggccggaggtttgcatg	AA125241
10259	ctctaaaagctgatcggtgacatcg	W54584	52863	acccttatggaatctgcacagagaa	AA038505	95467	ctggccggaggtttgcatggcagca	AA125241
10260	aagctgatcggtgacatcgagcaca	W54584	52864	tatgtaagctgctttctattccagt	AA038505	95468	gctccccggaaggctctcttcaagt	AA125241
10261	tttaagtctcatctcatccgtgctg	W54584	52865	agctgctttctattccagtagatcc	AA038505	95469	cggaaggctctcttcaagtgattgt	AA125241
10262	taagtctcatctcatccgtgctgat	W54584	52866	gtatgccgagtacgcgcttccctga	AA038714	95470	tgctgctttgcagctgctcaagagt	AA125241
10263	agtctcatctcatccgtgctgattg	W54584	52867	cgagtacgcgcttccctgaagagct	AA038714	95471	tttgcagctgctcaagagtttcctc	AA125241
10264	tctcatctcatccgtgctgattgga	W54584	52868	tgagttgcaacctcatcactgtgat	AA038714	95472	caagagtttcctcagtcggattcga	AA125241
10265	tcatctcatccgtgctgattggaga	W54584	52869	gcaacctcatcactgtgatgtgtca	AA038714	95473	gattcgaggtctccttcataatgga	AA125241
10266	ctcatccgtgctgattggagatctg	W54584	52870	acctcatcactgtgatgtgtcagcg	AA038714	95474	ccactgatattgctgctagtaagtt	AA125241
10267	catccgtgctgattggagatctgtg	W54584	52871	tcatcactgtgatgtgtcagcgatt	AA038714	95475	ttgtggcccaaattttcaggcatgg	AA125241
10268	ttcggctcctgtgatgtcttgtgtg	W54584	52872	tcactgtgatgtgtcagcgattgga	AA038714	95476	cccaaattttcaggcatggtgataa	AA125241

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10269	cggctcctgtgatgtcttgtgtgaa	W54584	52873	agaatgccgttgcgagttgtatcct	AA038714	95477	gtgataatctctggtgcatcaaaaa	AA125241
10270	gctcctgtgatgtcttgtgtgaaat	W54584	52874	ttgcgagttgtatcctcttgggaac	AA038714	95478	aactgattctcgtcatcttcatcgc	AA125241
10271	tcctgtgatgtcttgtgtgaaatgt	W54584	52875	gtatcctcttgggaacgaacaagag	AA038714	95479	tcatcttcatcgctcatgtgccctt	AA125241
10272	gaaatgtacgtccaacactgagctt	W54584	52876	tcctcttgggaacgaacaagagcag	AA038714	95480	tcatcgctcatgtgccctttgccag	AA125241
10273	cgctcagactctctaaaagctgatc	W54584	52877	agcttgcgttggcgtcgaattcaga	AA038714	95481	tgccctttgccagaacagcactgat	AA125241
10274	cagactctctaaaagctgatcggtg	W54584	52878	gtacgcgcttccctgaagagctgac	AA038714	95482	ggatgacacctgtcacctgggaggt	AA125368
10275	gactctctaaaagctgatcggtgac	W54584	52879	gcttccctgaagagctgacccagac	AA038714	95483	tgacacctgtcacctgggaggtata	AA125368
10276	acatgacgggcgagtttaagaatga	W54590	52880	aagagctgacccagaccttcatgag	AA038714	95484	gagcatccagtccagtatattggca	AA125368
10277	cccgctcatcatccataacgacaga	W54590	52881	agctgacccagaccttcatgagttg	AA038714	95485	tatattggcaatgtccgtcttgagt	AA125368
10278	aagcccaatgtgccattatagtata	W54590	52882	tgacccagaccttcatgagttgcaa	AA038714	95486	attggcaatgtccgtcttgagtggg	AA125368
10279	agcccaatgtgccattatagtatat	W54590	52883	agaccttcatgagttgcaacctcat	AA038714	95487	tgtcaccttcccaaaggccatattg	AA125368
10280	cccaatgtgccattatagtatataa	W54590	52884	ccttcatgagttgcaacctcatcac	AA038714	95488	catattggtactctgaaggatgttc	AA125368
10281	tataatgtagcctcaagagttactt	W54590	52885	tcatgagttgcaacctcatcactgt	AA038714	95489	gatgttcaaagcccttcgcatgtcc	AA125368
10282	tgtagcctcaagagttacttacgaa	W54590	52886	agacgacatgagccggggagcagca	X59927	95490	gttcaaagcccttcgcatgtcccca	AA125368
10283	aaagtgtacctaactgacatagaga	W54590	52887	aatgttgtatgggctacgcggccca	X59927	95491	ccttcgcatgtccccactggacaga	AA125368
10284	aagtgtacctaactgacatagagat	W54590	52888	catctcaagatcatggccttgccct	X59927	95492	tcgcatgtccccactggacagagtg	AA125368
10285	agtgtacctaactgacatagagatc	W54590	52889	atggccttgcccttggactcatcct	X59927	95493	catgtccccactggacagagtgaca	AA125368
10286	tgtacctaactgacatagagatcta	W54590	52890	ttgcccttggactcatcctcagaga	X59927	95494	cacctgtcacctgggaggtataggt	AA125368
10287	gtacctaactgacatagagatctag	W54590	52891	ttggactcatcctcagagaagttaa	X59927	95495	tcacctgggaggtataggtgctggc	AA125368
10288	ccgctcatcatccataacgacagaa	W54590	52892	tcatcctcagagaagttaagcatta	X59927	95496	ccctgagccctaaacctagcagcag	AA125368
10289	tacctaactgacatagagatctagt	W54590	52893	agcattaaggcttggcacgagcctc	X59927	95497	tgagccctaaacctagcagcagttg	AA125368
10290	cgctcatcatccataacgacagaag	W54590	52894	ctctccgggactagctgcaaaactt	X59927	95498	gccctaaacctagcagcagttgccc	AA125368
10291	ctcatcatccataacgacagaagac	W54590	52895	tatgctctaaacatttctagttccc	X59927	95499	ctagcagcagttgcccaaaaggata	AA125368
10292	tcatcatccataacgacagaagacc	W54590	52896	ctccattgcttgttccagcatcttg	X59927	95500	ctgattgagcatccagtccagtata	AA125368
10293	catcatccataacgacagaagaccc	W54590	52897	atcagctctggtgtccctgagagac	X59927	95501	attgagcatccagtccagtatattg	AA125368
10294	tcatccataacgacagaagacccat	W54590	52898	tcctcgctgagctgcaacctgatgc	X59927	95502	gaaatgtaccctgatgcaactaatc	AA137394
10295	catccataacgacagaagacccatc	W54590	52899	ctgagctgcaacctgatgcatcgac	X59927	95503	aaatgtaccctgatgcaactaatca	AA137394
10296	caagcccaatgtgccattatagtat	W54590	52900	tcaggcctctgacttgagactactg	X59927	95504	ctataaatcaactactgaatgatcc	AA137394
10297	agccaaagtcccctggaatcatatc	M32745	52901	ctctgacttgagactactgctgtcg	X59927	95505	taaatcaactactgaatgatcccaa	AA137394
10298	tcatatcttgcactgcctggaatta	M32745	52902	cttgagactactgctgtcgcagatc	X59927	95506	atcaactactgaatgatcccaaagt	AA137394
10299	tatctcaggtcccttagagatgctg	M32745	52903	atctcagagttcaactctcatctca	X59927	95507	caactactgaatgatcccaaagtat	AA137394
10300	aggtcccttagagatgctggactca	M32745	52904	gagttcaactctcatctcaagatca	X59927	95508	aactactgaatgatcccaaagtata	AA137394
10301	tgccttccttcttggccgcatttcc	M32745	52905	aactctcatctcaagatcatggcct	X59927	95509	ctactgaatgatcccaaagtatata	AA137394
10302	gtgtattctccggattcagagtcca	M32745	52906	catgatcactcgtacacggacaccg	AA038738	95510	tactgaatgatcccaaagtatatat	AA137394
10303	tctccggattcagagtccacatagc	M32745	52907	tgatcactcgtacacggacaccggg	AA038738	95511	aatgatcccaaagtatatatgacta	AA137394
10304	gattcagagtccacatagcctgggg	M32745	52908	agactgccgggattatagtgatgag	AA038738	95512	atgatcccaaagtatatatgactat	AA137394
10305	ccaggtgttcctggaagcaggtgct	M32745	52909	atgagcgttactgccgatgcaatgc	AA038738	95513	ttaaactcagagtcagagtgaatag	AA137394
10306	aggtgctacatgccaagtatccggg	M32745	52910	gcgttactgccgatgcaatgccacc	AA038738	95514	atgtaccctgatgcaactaatcaga	AA137394
10307	catgatgactcggccccagatgcac	M32745	52911	gttactgccgatgcaatgccaccca	AA038738	95515	tgtaccctgatgcaactaatcagaa	AA137394
10308	gactcggccccagatgcacagactg	M32745	52912	ccaccagttcacgtgcaaaaaccag	AA038738	95516	taccctgatgcaactaatcagaata	AA137394
10309	cttgcactgcctggaattaaggaca	M32745	52913	acgtgcaaaaaccagttctgcaagc	AA038738	95517	accctgatgcaactaatcagaataa	AA137394
10310	ttctttctgcaactgtcttttcacc	M32745	52914	accagttctgcaagcccctcttctg	AA038738	95518	atatcaattatgatctggtgcctat	AA137394
10311	ctgcaactgtcttttcacctcgatc	M32745	52915	tcttctgggtctgtgacagtgtcaa	AA038738	95519	tatgatctggtgcctataaatcaac	AA137394
10312	tttcacctcgatcagcatcatgagt	M32745	52916	ttctgggtctgtgacagtgtcaacg	AA038738	95520	tgcctataaatcaactactgaatga	AA137394
10313	ctcgatcagcatcatgagtcatcac	M32745	52917	gtctgtgacagtgtcaacggactgt	AA038738	95521	cctataaatcaactactgaatgatc	AA137394
10314	cagcatcatgagtcatcacagatca	M32745	52918	gggttcctagctgagtacctctcct	AA038738	95522	accacttctcaggttaatggacact	L26320
10315	ttagtttctgggccagcaactagct	M32745	52919	agctgagtacctctcctacgactcc	AA038738	95523	tgtagtcattgttctgtgcaactgc	L26320
10316	tctgggccagcaactagctatctca	M32745	52920	tccaacgacccgtgcccagggatgt	AA038738	95524	gaaagatgcccatcagcctgggatt	L26320
10317	tggcccaggtgagcacctccggaat	L04302	52921	cccgtgcccagggatgttcatgtgc	AA038738	95525	tgcccatcagcctgggattcgctga	L26320
10318	ccctgatcaggtacgactgctgtgg	L04302	52922	ttcatgtgcaagactggacggtgca	AA038738	95526	agtactgaccagctgatttttgtgg	L26320
10319	agtgcctgaggactttgagccattc	L04302	52923	agactggacggtgcatccgaaagga	AA038738	95527	gaccagctgatttttgtgggcagaa	L26320
10320	ctttgagccattccggaggcagctg	L04302	52924	ctgggcagactgccgggattatagt	AA038738	95528	aatttgaacttgctgcctgctgagt	L26320
10321	gcagctgctccagggaagagtgtga	L04302	52925	gcagactgccgggattatagtgatg	AA038738	95529	aacttgctgcctgctgagtccagta	L26320
10322	ccagatcctgatcggagacctttgg	L04302	52926	gccccatctgatttgcaaactttct	M80481	95530	ctgcctgctgagtccagtagttgtg	L26320
10323	cctgatcggagacctttggccattg	L04302	52927	gatttgcaaactttctagaagatgc	M80481	95531	gtgtgccactgacctgtgcctccaa	L26320
10324	cctttggccattgaactctgttctg	L04302	52928	cttgagccatactattggtgggcct	M80481	95532	cctgtgcctccaagtgatgttctga	L26320
10325	gccattgaactctgttctggagacc	L04302	52929	ttcagtgaccttggctctatccatg	M80481	95533	gttctgacagcctttctgaggcaat	L26320
10326	gaactctgttctggagaccctgggg	L04302	52930	gaccttggctctatccatgaccaga	M80481	95534	cattgttctgtgcaactgcgagcaa	L26320
10327	gcccctcagcctaacggatggctct	L04302	52931	ggctctatccatgaccagacaggac	M80481	95535	tctgtgcaactgcgagcaatgtctt	L26320
10328	cagcctaacggatggctctctggca	L04302	52932	tctatccatgaccagacaggaccca	M80481	95536	caactgcgagcaatgtcttaaggaa	L26320
10329	acgactgctgtggactgacccacgg	L04302	52933	gaccagacaggacccattttggctt	M80481	95537	agatagtttcccagctggccagctg	L26320
10330	gactgacccacggaatgtgggtttg	L04302	52934	cagacaggacccattttggcttctt	M80481	95538	tgactgactactgctccttctaatt	L26320
10331	ccaagttggctacattcgggtgaag	L04302	52935	cctgaactacacgtgtccatgtaga	M80481	95539	actactgctccttctaatttcactg	L26320
10332	cattcgggtgaagctctatgagggt	L04302	52936	gaactacacgtgtccatgtagattg	M80481	95540	tctaatttcactgtccctgaaagat	L26320
10333	gctctatgagggtccccagctagtg	L04302	52937	ctacacgtgtccatgtagattgtaa	M80481	95541	gtccctgaaagatgcccatcagcct	L26320
10334	tctccagtaccgatgcaatgacaca	L04302	52938	atgccatgaggtggtgtgtgtagat	M80481	95542	tgaggctactctgaagcgacccagc	W10459
10335	atgcaatgacacagtgcctgaggac	L04302	52939	tctttgagcaagagctctggaaacc	M80481	95543	ggctactctgaagcgacccagcggt	W10459
10336	tgacacagtgcctgaggactttgag	L04302	52940	agctctggaaaccacctcagcttca	M80481	95544	aggctggactcagctacatccggtt	W10459

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10337	ccctcaaatgctttgctgagacacc	AA089187	52941	tctggaaaccacctcagcttcaaca	M80481	95545	ctggactcagctacatccggttttc	W10459
10338	tcaaatgctttgctgagacacccaa	AA089187	52942	ggaaaccacctcagcttcaacagag	M80481	95546	tcagctacatccggttttcccagat	W10459
10339	tccagatcacctggaacagaaagaa	AA089187	52943	ctcagcttcaacagaggctggtcca	M80481	95547	gctacatccggttttcccagatctg	W10459
10340	agtacgactgggatctgctggctgc	AA089187	52944	agcttcaacagaggctggtccagtc	M80481	95548	acatccggttttcccagatctgtgc	W10459
10341	atctgctggctgcccgttccatctg	AA089187	52945	tgcccttcctactgctgagcaacca	M80481	95549	tccggttttcccagatctgtgcaaa	W10459
10342	gttccatctgggccttcggacctga	AA089187	52946	tgtcatctttgccgatgtggcccag	Z22593	95550	tttcccagatctgtgcaaaagcagt	W10459
10343	gggccttcggacctgatgctacagg	AA089187	52947	ctttgccgatgtggcccagccagac	Z22593	95551	atgccctgaagaccgagttcaaagc	W10459
10344	ccttcggacctgatgctacaggccc	AA089187	52948	cactgcgtcagcagaggctgtgttt	Z22593	95552	agaagacttcgggcagcagcataaa	W10459
10345	tcggacctgatgctacaggccccaa	AA089187	52949	tgtgtttgcatctgaagtgaagaag	Z22593	95553	agacttcgggcagcagcataaaaat	W10459
10346	ctgatgctacaggccccaacatcct	AA089187	52950	gaacatgaagccgcaggagcagctg	Z22593	95554	tctgaagcgacccagcggttctgcc	W10459
10347	caggccccaacatcctagtagatga	AA089187	52951	catgaagccgcaggagcagctgacg	Z22593	95555	gaagcgacccagcggttctgcccga	W10459
10348	gccccaacatcctagtagatgatac	AA089187	52952	gcagctgacgctagagccttatgag	Z22593	95556	ccgctcgagacaccatggtggcgta	W10459
10349	aatgctttgctgagacacccaataa	AA089187	52953	gctagagccttatgagcgagaccac	Z22593	95557	ctcgagacaccatggtggcgtactg	W10459
10350	ttgctgagacacccaataagaagaa	AA089187	52954	ttatgagcgagaccacgccgtggtt	Z22593	95558	gagacaccatggtggcgtactggcg	W10459
10351	acaagatcaccatgattgccgagcc	AA089187	52955	ctgaaactcagagctgtctggattg	Z22593	95559	ccatggtggcgtactggcgacaggc	W10459
10352	agatcaccatgattgccgagcccct	AA089187	52956	aaactcagagctgtctggattgaag	Z22593	95560	tggcgtactggcgacaggctggact	W10459
10353	tgattgccgagcccctgagaaggg	AA089187	52957	gcacgtgtggcttgtgatttttgg	Z22593	95561	cgtactggcgacaggctggactcag	W10459
10354	ttgccgagcccctgagaagggcct	AA089187	52958	tgccgatgtggcccagccagaccaa	Z22593	95562	gaacttcaccaagaaaatacagctc	AA002458
10355	aagtggtccagatcacctggaacag	AA089187	52959	gatttccattaaggccaactgcatt	Z22593	95563	caagaaaatacagctccctgcagaa	AA002458
10356	tggtccagatcacctggaacagaaa	AA089187	52960	ttccattaaggccaactgcattgac	Z22593	95564	ctcacccttggagagagcagcttc	AA002458
10357	tctctggagcttttcgggacccgtg	W54498	52961	cattaaggccaactgcattgactcc	Z22593	95565	cttcaacaacgagcttcctcaagac	AA002458
10358	cgtggccttcatcattttcgtaagt	W54498	52962	ggccaactgcattgactccactgcg	Z22593	95566	caacaacgagcttcctcaagacaac	AA002458
10359	ttgcagccctataacccgagaccat	W54498	52963	caactgcattgactccactgcgtca	Z22593	95567	cgagcttcctcaagacaaccaggaa	AA002458
10360	ccactcagtgcaatgctgccatttt	W54498	52964	ctgcattgactccactgcgtcagca	Z22593	95568	gcttcctcaagacaaccaggaagtc	AA002458
10361	agtgcaatgctgccattttcgtgat	W54498	52965	tgactccactgcgtcagcagaggct	Z22593	95569	tcctcaagacaaccaggaagtcacc	AA002458
10362	gcaatgctgccattttcgtgatcac	W54498	52966	gctcactggggtgcaagaagccctg	X94998	95570	agtcacctgttcctaagacgtcagc	AA002458
10363	atgctgccattttcgtgatcactgt	W54498	52967	tcctgccgacactagacctggcttc	X94998	95571	ctgttcctaagacgtcagccttggt	AA002458
10364	ttttcgtgatcactgtctggaagct	W54498	52968	cctgccttagacccctgactctgtg	X94998	95572	ctaagacgtcagccttggtccttct	AA002458
10365	tcgtgatcactgtctggaagctcac	W54498	52969	ttagacccctgactctgtgtgcact	X94998	95573	agacgtcagccttggtccttcttcg	AA002458
10366	tcactgtctggaagctcacaaagaa	W54498	52970	gcaagcttctctggaaaggacaggg	X94998	95574	aatacagctccctgcagaagtggat	AA002458
10367	tttctgaaatcaacccaaacatgaa	W54498	52971	gcttagactgtgctacgggttccag	X94998	95575	gctccctgcagaagtggatccagcc	AA002458
10368	tcaacccaaacatgaagaagttaag	W54498	52972	gttccagaactgcaatccacaaaag	X94998	95576	ggatccagccactgtatttgcctcg	AA002458
10369	ggccttcatcattttcgtaagtact	W54498	52973	gcacctgcatgtatcaccatcctgc	X94998	95577	atttgcctcgctttctccagagggc	AA002458
10370	tttcgtaagtactctctgggcactg	W54498	52974	gcatgtatcaccatcctgcctctga	X94998	95578	ctcgctttctccagagggcctgctc	AA002458
10371	aagtactctctgggcactggaggcc	W54498	52975	atcctgcctctgaagagccctcagc	X94998	95579	gctttctccagagggcctgctcatc	AA002458
10372	tactctctgggcactggaggcctga	W54498	52976	cctctgaagagccctcagcatgaag	X94998	95580	gggcctgctcatcatcgaggctccc	AA002458
10373	ggcactggaggcctgagcagccaga	W54498	52977	aagagccctcagcatgaagcaagca	X94998	95581	tccgtactcacccttggagagagc	AA002458
10374	ctgagcagccagactgctaactcct	W54498	52978	tagacctggcttcctctgcattcac	X94998	95582	tgctgacctgttccgtggcaacact	AA137580
10375	agcagccagactgctaactccttgc	W54498	52979	tggcttcctctgcattcacactatg	X94998	95583	gacctgttccgtggcaacacttgga	AA137580
10376	agccagactgctaactccttgcagc	W54498	52980	atgcccagtggtgcctgtgatttgt	X94998	95584	tgaaatggtcttgttgggtggtcta	AA137580
10377	gcttcatgccaagcttttgatctgt	W54570	52981	agtggtgcctgtgatttgtagtttg	X94998	95585	aatggtcttgttgggtggtctacag	AA137580
10378	cttcatgccaagcttttgatctgtt	W54570	52982	gtctaagaacagccccatcttctcc	X94998	95586	gtcttgttgggtggtctacaggatt	AA137580
10379	accacagtcgagggacttttcactg	W54570	52983	gtacaaccaacagcttcttctagac	X94998	95587	tcttgttgggtggtctacaggattc	AA137580
10380	agggacttttcactgcaggacatcc	W54570	52984	tctagaccccactgggatagagcca	X94998	95588	tggtctacaggattccccaggattc	AA137580
10381	gggacttttcactgcaggacatcca	W54570	52985	agagccaccagggtagcgagtggca	X94998	95589	ggtctacaggattccccaggattcg	AA137580
10382	ggacttttcactgcaggacatccag	W54570	52986	ttaagaacacctcgggatactgcgc	AA038793	95590	gtctacaggattccccaggattcgg	AA137580
10383	gacttttcactgcaggacatccaga	W54570	52987	taagaacacctcgggatactgcgca	AA038793	95591	agacctgaccaggagcattaacccg	AA137580
10384	cttttcactgcaggacatccagaag	W54570	52988	gcatatgcgcaaagccacctaagta	AA038793	95592	caaggcagcaattctatctggaaaa	AA137580
10385	ttcactgcaggacatccagaagagt	W54570	52989	atatgcgcaaagccacctaagtatc	AA038793	95593	ggcagcaattctatctggaaaaaat	AA137580
10386	cactgcaggacatccagaagagttt	W54570	52990	tatgcgcaaagccacctaagtatcg	AA038793	95594	tgttccgtggcaacacttggaccct	AA137580
10387	actgcaggacatccagaagagttta	W54570	52991	atgcgcaaagccacctaagtatcgt	AA038793	95595	ttccgtggcaacacttggaccctgt	AA137580
10388	ctgcaggacatccagaagagtttag	W54570	52992	gcgcaaagccacctaagtatcgtga	AA038793	95596	tccgtggcaacacttggaccctgta	AA137580
10389	ttcatgccaagcttttgatctgtta	W54570	52993	cgcaaagccacctaagtatcgtgaa	AA038793	95597	gtggcaacacttggaccctgtagag	AA137580
10390	agtttagaagctgccgaagacagac	W54570	52994	gcaaagccacctaagtatcgtgaag	AA038793	95598	tggcaacacttggaccctgtagaga	AA137580
10391	catgccaagcttttgatctgttact	W54570	52995	aagccacctaagtatcgtgaaggat	AA038793	95599	ggcaacacttggaccctgtagagaa	AA137580
10392	atgccaagcttttgatctgttactc	W54570	52996	agccacctaagtatcgtgaaggatg	AA038793	95600	caacacttggaccctgtagagaagg	AA137580
10393	agcttttgatctgttactcagccct	W54570	52997	ccacctaagtatcgtgaaggatgtc	AA038793	95601	gacaattcacggatcaatgaaatgg	AA137580
10394	tgtcgtcaccacagtcgagggactt	W54570	52998	agaacacctcgggatactgcgcagg	AA038793	95602	ggatccatttgtagtcttggtgctt	AA137659
10395	tcgtcaccacagtcgagggacttttt	W54570	52999	gaacacctcgggatactgcgcaggc	AA038793	95603	gatccatttgtagtcttggtgcttt	AA137659
10396	gtcaccacagtcgagggacttttca	W54570	53000	aacacctcgggatactgcgcaggcc	AA038793	95604	aattaccacctgatagatatgaagg	AA137659
10397	tcaccacagtcgagggacttttcac	W54570	53001	cacctcgggatactgcgcaggccat	AA038793	95605	attaccacctgatagatatgaagga	AA137659
10398	agtaccaacgtgttctcaatgtctc	W54624	53002	acctcgggatactgcgcaggccatc	AA038793	95606	acattgggcagtgcttaccaatttt	AA137659
10399	ttctcaatgtctcagtagtcacaga	W54624	53003	cctcgggatactgcgcaggccatca	AA038793	95607	ttggctcacagcctattgtggtatt	AA137659
10400	catagcgacggcttcatcgactaga	W54624	53004	atgcatatgcgcaaagccacctaag	AA038793	95608	tggctcacagcctattgtggtatta	AA137659
10401	gactcatttgatggcctaggtcgat	W54624	53005	tgcatatgcgcaaagccacctaagt	AA038793	95609	gctcacagcctattgtggtattaca	AA137659
10402	tcatttgatggcctaggtcgatgtg	W54624	53006	gccttggcttctgacagtccttcca	X60203	95610	ctcacagcctattgtggtattacat	AA137659
10403	tcattatcgtagatgctcgatgatc	W54624	53007	ttggcttctgacagtccttccacct	X60203	95611	caattaaagaagccctcattgacca	AA137659
10404	tcttcagcgtgttcctgacgatgtg	W54624	53008	actacagtatctgtccctgggttgg	X60203	95612	aattaaagaagccctcattgaccat	AA137659

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10405	aggctgatcctgaagcgtccatctt	W54624	53009	gtatctgtccctgggttggcagaga	X60203	95613	aagccctcattgaccatggagaaga	AA137659
10406	ctgatcctgaagcgtccatctttac	W54624	53010	tctgtccctgggttggcagagactt	X60203	95614	ccatttgtagtcttggtgctttgtc	AA137659
10407	atcctgaagcgtccatctttacagc	W54624	53011	gtccctgggttggcagagacttgaa	X60203	95615	agccctcattgaccatggagaagag	AA137659
10408	ccatctttacagcattgaaggtgta	W54624	53012	tcatcctatggtttttctaatggat	X60203	95616	tgtagtcttggtgctttgtctgtcc	AA137659
10409	tctttacagcattgaaggtgtatga	W54624	53013	taatcttgtaactattcaagctcca	X60203	95617	gtagtcttggtgctttgtctgtcct	AA137659
10410	tcaatgtctcagtagtcacagattc	W54624	53014	ctctttgctgatcttggcttcctgg	X60203	95618	ctgtcctttctgcttgtcctgtcat	AA137659
10411	attcaggagttgtcgaggtgtttca	W54624	53015	tttgctgatcttggcttcctggctt	X60203	95619	tgtcctgtcattgtggagacagaga	AA137659
10412	aggtgtttcacattcatgtatcagc	W54624	53016	caccctctgctgtccttgtgtagtg	X60203	95620	cctgtcattgtggagacagagatct	AA137659
10413	tgtttcacattcatgtatcagcata	W54624	53017	cctctgctgtccttgtgtagtgatt	X60203	95621	ttggaaattaccacctgatagatat	AA137659
10414	ttcacattcatgtatcagcatagcg	W54624	53018	ttctgaaactagctgccttttaaag	X60203	95622	ggaaattaccacctgatagatatga	AA137659
10415	atgtatcagcatagcgacggcttca	W54624	53019	aaagtgctttatgctggcttttctc	X60203	95623	agaagacagcgcatacagtgtgcga	AA137667
10416	tatcagcatagcgacggcttcatcg	W54624	53020	tgaaactagctgccttttaaagcag	X60203	95624	agacagcgcatacagtgtgcgattc	AA137667
10417	cagcatagcgacggcttcatcgact	W54624	53021	ccttttaaagcagatcccttcactg	X60203	95625	cactgtgggtccgctaggtgaaggt	AA137667
10418	atgcctctcgtatccagcgcccatt	M69200	53022	aaagcagatcccttcactgctatgt	X60203	95626	tggtgcccacaaggtgcgagctgga	AA137667
10419	ctcgtatccagcgcccattctctgt	M69200	53023	gatcccttcactgctatgttggaca	X60203	95627	ccacaaggtgcgagctggaggcaca	AA137667
10420	aagcactgagtgccattagctaaat	M69200	53024	ttcactgctatgttggacactacag	X60203	95628	cacaaggtgcgagctggaggcacag	AA137667
10421	ttctccaacctttcctggcccagag	M69200	53025	ttggacactacagtatctgtccctg	X60203	95629	gctggtgtgccagctgagtttagca	AA137667
10422	cccagaggctttcccatgtgtgtgg	M69200	53026	gacactacagtatctgtccctgggt	X60203	95630	tggtgtgccagctgagtttagcatc	AA137667
10423	gctggacccttgatgggctgctct	M69200	53027	ggcttgagctatgcccaacatcagc	X81593	95631	tgtgccagctgagtttagcatctgg	AA137667
10424	ccctttgatgggctgctcttggtcc	M69200	53028	agctatgcccaacatcagctgcggc	X81593	95632	gagtttagcatctggacccgagaag	AA137667
10425	tcaaccacatcttactactgcatgc	M69200	53029	cttcagctctcgagcgtgaactcaa	X81593	95633	gtttagcatctggacccgagaagct	AA137667
10426	tactactgcatgcgctccaggatgg	M69200	53030	ctctcgagcgtgaactcaagctcta	X81593	95634	tttagcatctggacccgagaagctg	AA137667
10427	tgcatgcgctccaggatggtcctgc	M69200	53031	aactcaagctctacacacctgctca	X81593	95635	gacagcgcatacagtgtgcgattcg	AA137667
10428	tgctgtattctaccctgattattat	M69200	53032	agctctacacacctgctcatcatgt	X81593	95636	cagcgcatacagtgtgcgattcgtg	AA137667
10429	attctaccctgattattatctcaat	M69200	53033	ctgctcatcatgtgccttacactca	X81593	95637	cgcatacagtgtgcgattcgtgccc	AA137667
10430	ttgacccgtacaccctggccattga	M69200	53034	tgccttacactcagaggaagccttg	X81593	95638	gcgattcgtgccccaggagatgggt	AA137667
10431	cgtacaccctggccattgatgtact	M69200	53035	acactcagaggaagccttgggtcac	X81593	95639	tgtcaagtaccgcggccaacacgtg	AA137667
10432	ccctggccattgatgtactggacag	M69200	53036	agccttgggtcacagagtctgattt	X81593	95640	ggaagccctttttcagttcactgtgg	AA137667
10433	atgtactggacagtcctcacaccat	M69200	53037	tgatttctggggcagctgagagcta	X81593	95641	ttttcagttcactgtgggtccgcta	AA137667
10434	tggacagtcctcacaccatccggcg	M69200	53038	tagcaaagctcagggccagtgtgac	X81593	95642	tcagttcactgtgggtccgctaggt	AA137667
10435	aggatgagctgcacaccctgaccca	M69200	53039	gcccaacatcagctgcggcctttgc	X81593	95643	catgtatgacttctttcttggacgg	AA137737
10436	acaccctgacccaagcactgagtgc	M69200	53040	cctagctggctgccccatattgggc	X81593	95644	gtatgacttctttcttggacgggag	AA137737
10437	tgacccaagcactgagtgccattag	M69200	53041	tctcctatgccactcagccaactta	X81593	95645	cctcattggctgggtatgctgacat	AA137737
10438	ccacctcatgtttgccgtgcgagac	AA015076	53042	atgccactcagccaacttatttgtt	X81593	95646	atgctgacatgctggacttaattct	AA137737
10439	acctcatgtttgccgtgcgagacgc	AA015076	53043	ctcagccaacttatttgttagccag	X81593	95647	ctgacatgctggacttaattctgct	AA137737
10440	ccaatgggccctccatctgagcctt	AA015076	53044	ctaggatgctacctggtggacccgc	X81593	95648	acatgctggacttaattctgctgga	AA137737
10441	tgggccctccatctgagccttcttt	AA015076	53045	ctggtggacccgcatctcacacggg	X81593	95649	tgctggacttaattctgctggactt	AA137737
10442	atctgagccttctttccctcacaat	AA015076	53046	ctcgaacttcagctctcgagcgtga	X81593	95650	acttaattctgctggacttgggcca	AA137737
10443	ctgagccttctttccctcacaatgt	AA015076	53047	tccgatactactatgacaaaaacat	X59421	95651	taattctgctggacttgggccagga	AA137737
10444	tggctgttgcgccttgtgccggcag	AA015076	53048	agtttgacttccatggcattgccca	X59421	95652	tcattcatttgccaatatgttgctg	AA137737
10445	tgttgcgccttgtgccggcagcctg	AA015076	53049	acgtgccttcacacttaggcagcta	X59421	95653	ttcatttgccaatatgttgctgtgt	AA137737
10446	cccctcttcctatgtagctttaatg	AA015076	53050	cttcacacttaggcagctactacta	X59421	95654	caatatgttgctgtgttatgaacct	AA137737
10447	cctcttcctatgtagctttaatgcc	AA015076	53051	gcagctactactagaactaacacca	X59421	95655	tgacttctttcttggacgggagctg	AA137737
10448	tcttcctatgtagctttaatgccca	AA015076	53052	agaactaacaccagttggccttctg	X59421	95656	tgacttcaaatatttctgtgagctg	AA137737
10449	ttcctatgtagctttaatgcccatg	AA015076	53053	aacaccagttggccttctggctgaa	X59421	95657	caaatatttctgtgagctgagacct	AA137737
10450	cagatccgagacctggcagagcgga	AA015076	53054	ccttctggctgaagttccagctctc	X59421	95658	atatttctgtgagctgagacctggc	AA137737
10451	tccgagacctggcagagcggaaccg	AA015076	53055	agttccagctctcactttactggat	X59421	95659	tttctgtgagctgagacctggcctc	AA137737
10452	acctggcagagcggaaccgtgcatt	AA015076	53056	agctctcactttactggatactctg	X59421	95660	tgagctgagacctggcctcattggc	AA137737
10453	aaccgtgcattggagcaggagaatg	AA015076	53057	actggatactctggactctaaaagg	X59421	95661	acctggcctcattggctgggtatgc	AA137737
10454	ccgtgcattggagcaggagaatgga	AA015076	53058	tactctggactctaaaaggcacagt	X59421	95662	tggcctcattggctgggtatgctga	AA137737
10455	atggattgctgcgcgcactggccag	AA015076	53059	atggcattgcccaggccctgcagcc	X59421	95663	ggaaaccaggctgccagcggagact	AA000455
10456	attgctgcgcgcactggccagcccg	AA015076	53060	cacatccaacagagacatccatgta	X59421	95664	aaaccaggctgccagcggagactct	AA000455
10457	gcacccaatgggccctccatctgag	AA015076	53061	agacatccatgtacaagtatccctc	X59421	95665	gattcacgagacccggcgattcagg	AA000455
10458	tatagactttcaccacttcacagac	L12447	53062	acaagtatccctctgatatctccta	X59421	95666	attcacgagacccggcgattcaggt	AA000455
10459	catcactgtcacacagtagcctgtc	L12447	53063	atccctctgatatctcctacatgcc	X59421	95667	ttcacgagacccggcgattcaggtg	AA000455
10460	accacatcacatattactgtagctc	L12447	53064	accatgcccatcaacagaaggtgaa	X59421	95668	agcaggatgcgttcacggtgcaccg	AA000455
10461	acatcacatattactgtagctctct	L12447	53065	ccagcttctttggagcagcatcaca	X59421	95669	atgcgttcacggtgcaccgtctctg	AA000455
10462	tcacatattactgtagctctctata	L12447	53066	tctttggagcagcatcacaatactg	X59421	95670	gcgttcacggtgcaccgtctctgcc	AA000455
10463	attactgtagctctctatagtgtta	L12447	53067	tggattaataccccctcgaagacaag	AA170690	95671	cgttcacggtgcaccgtctctgccg	AA000455
10464	actgtagctctctatagtgttacgt	L12447	53068	cttctttctgacctgaaccatcaga	AA170690	95672	gttcacggtgcaccgtctctgccgt	AA000455
10465	acgttcagacaccgtagctctgtcc	L12447	53069	actcttagaggcctctttattatcg	AA170690	95673	tcacggtgcaccgtctctgccgtcg	AA000455
10466	agacaccgtagctctgtcctctctt	L12447	53070	cttagaggcctctttattatcgatg	AA170690	95674	cacggtgcaccgtctctgccgtcgg	AA000455
10467	aaatcaccccgatgtggaagagctc	L12447	53071	ctctttattatcgatgacaaaggag	AA170690	95675	aaccaggctgccagcggagactctt	AA000455
10468	tcaccccgatgtggaagagctcggc	L12447	53072	attactctgaatgaccttcctgtcg	AA170690	95676	aggctgccagcggagactcttcggg	AA000455
10469	agagctcggctcctctttagcattt	L12447	53073	aatgaccttcctgtcggaagatcag	AA170690	95677	ggctgccagcggagactcttcgggt	AA000455
10470	tgtcacacagtagcctgtcacacgg	L12447	53074	gaccttcctgtcggaagatcagtgg	AA170690	95678	agccgcgcgcactgcccgtgtatgc	AA000455
10471	acagtagcctgtcacacggatagta	L12447	53075	gacgagacactgcgtttggttcaag	AA170690	95679	tgcccgtgtatgcccagagaagctc	AA000455
10472	gttcagacaagactccttcagattc	L12447	53076	gagacactgcgtttggttcaagcct	AA170690	95680	cccgtgtatgcccagagaagctcgg	AA000455

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10473	cagacaagactccttcagattccga	L12447	53077	ttggttcaagccttccagtacactg	AA170690	95681	ccgtgtatgcccagagaagctcgga	AA000455
10474	ctccttcagattccgagacgcctac	L12447	53078	tacactgacaagcatggagaagtct	AA170690	95682	gggattcacgagacccggcgattca	AA000455
10475	cttcagattccgagacgcctaccgg	L12447	53079	ctttctgacctgaaccatcagatct	AA170690	95683	attcggatccatgctggctttggga	AA137767
10476	ttttttacaacagcaataaccacat	L12447	53080	gacctgaaccatcagatctcaaagg	AA170690	95684	ttcggatccatgctggctttgggaa	AA137767
10477	acagcaataaccacatcacatatta	L12447	53081	aaccatcagatctcaaaggactatg	AA170690	95685	tggatgtcaccaagacagagagtat	AA137767
10478	cgctctgctcaagctaaagaaacct	X52308	53082	catcagatctcaaaggactatggtg	AA170690	95686	gatgtcaccaagacagagagtattg	AA137767
10479	gaaacctgtacccttcagtgactat	X52308	53083	taccttgaagactcaggacatactc	AA170690	95687	atgtcaccaagacagagagtattgt	AA137767
10480	catgttctgtgctggcttcaaggtg	X52308	53084	gactcaggacatactcttagaggcc	AA170690	95688	gcagccactcagtgggtgaaggagc	AA137767
10481	gaatgacaccaagcgaggagatgct	X52308	53085	ggacatactcttagaggcctcttta	AA170690	95689	cagccactcagtgggtgaaggagcg	AA137767
10482	ctttaacaaccgctggtatcaaatg	X52308	53086	catactcttagaggcctctttatta	AA170690	95690	acagaggactctggggcctggtcaa	AA137767
10483	caaccgctggtatcaaatgggtatt	X52308	53087	ttcctgcagacttcattgctgaagg	AA162633	95691	agaggactctggggcctggtcaaca	AA137767
10484	tgtctcatggggtgaaggatgtgac	X52308	53088	cagacttcattgctgaaggcatcga	AA162633	95692	ctggtcaacaacgctggcatctccg	AA137767
10485	atacggcttctacacgcatgtgttc	X52308	53089	ttgtgaatggcctcatcttggcaag	AA162633	95693	tggtcaacaacgctggcatctccgt	AA137767
10486	cacgcatgtgttccgtctgaaaagg	X52308	53090	atggcctcatcttggcaagtgatgg	AA162633	95694	gtcaacaacgctggcatctccgtcc	AA137767
10487	cctacactatggaatcctcattgca	X52308	53091	tcatcttggcaagtgatggccaaaa	AA162633	95695	cggatccatgctggctttgggaacc	AA137767
10488	aatcctcattgcaaaatcacagaaa	X52308	53092	agaactacccagatccagtttccat	AA162633	95696	ggatccatgctggctttgggaacct	AA137767
10489	tgtttctgttctcaataaaagtgat	X52308	53093	acccagatccagtttccatcatcga	AA162633	95697	tccatgctggctttgggaacctgct	AA137767
10490	tgactatattcaccccgtgtgtttg	X52308	53094	atccagtttccatcatcgataagta	AA162633	95698	catgctggctttgggaacctgctgg	AA137767
10491	ccccgtgtgtttgccagacaagcag	X52308	53095	tttccatcatcgataagtatggtgc	AA162633	95699	gtgatcctggatgtcaccaagacag	AA137767
10492	aaccagcttgctccgggctggttat	X52308	53096	cggacgcctcaggttatatctgatc	AA162633	95700	tgatcctggatgtcaccaagacaga	AA137767
10493	gacatggacaaccaacatcaatgag	X52308	53097	caattcccctgtggtaagagcagaa	AA162633	95701	atcctggatgtcaccaagacagaga	AA137767
10494	caatgagatacagcccagcgtcctg	X52308	53098	agcagaaaacctgcgcttcaaggag	AA162633	95702	ctggatgtcaccaagacagagagta	AA137767
10495	ggtgaacctgcccattgtagagcgg	X52308	53099	tcattgctgaaggcatcgatcaaac	AA162633	95703	gcacggacgacgccagcgtcttcag	AA137821
10496	cattgtagagcggccagtgtgcaag	X52308	53100	gcatcgatcaaaccagaggatggtt	AA162633	95704	acggacgacgccagcgtcttcagcc	AA137821
10497	aattactgacaacatgttctgtgct	X52308	53101	gatggttttacaccctgctggtgct	AA162633	95705	gccagcgttatccgctggtctgaaa	AA137821
10498	tacaattgtcaggcatagcgttcgg	W54674	53102	tttacaccctgctggtgctagccac	AA162633	95706	agcgttatccgctggtctgaaagag	AA137821
10499	aggataacctgggctagccgacagg	W54674	53103	tagccacagcgctctttggacagcc	AA162633	95707	gcgttatccgctggtctgaaagagg	AA137821
10500	atggttagtcagagcgtcggaagca	W54674	53104	cagcgctctttggacagccaccttt	AA162633	95708	gttatccgctggtctgaaagaggga	AA137821
10501	gttagtcagagcgtcggaagcatga	W54674	53105	tctttggacagccacctttcaagaa	AA162633	95709	ttatccgctggtctgaaagagggaa	AA137821
10502	tagtcagagcgtcggaagcatgaag	W54674	53106	gacagccacctttcaagaatgtgat	AA162633	95710	aaggaggtcttcatctctgggtcct	AA137821
10503	agtcagagcgtcggaagcatgaagg	W54674	53107	ttgcgtgctcttcacagtcgggtta	X70842	95711	aggaggtcttcatctctgggtcctt	AA137821
10504	gaaggttcagtccttcaaggtgccg	W54674	53108	gctcttcacagtcgggttacaggcg	X70842	95712	aggtcttcatctctgggtccttcaa	AA137821
10505	gttcagtccttcaaggtgccgtcct	W54674	53109	ccaagtcctcagtattttagctttg	X70842	95713	ttcatctctgggtccttcaacaatt	AA137821
10506	cagtccttcaaggtgccgtcctcgg	W54674	53110	agctttgtggcttcctgatggcaga	X70842	95714	tcatctctgggtccttcaacaattg	AA137821
10507	ttcaaggtgccgtcctcggggatct	W54674	53111	gtggcttcctgatggcagaaaaatc	X70842	95715	cggacgacgccagcgtcttcagcct	AA137821
10508	gtgccgtcctcggggatctaccagg	W54674	53112	gtttgctctccagataatcactagc	X70842	95716	acgacgccagcgtcttcagcctggc	AA137821
10509	tcctcggggatctaccaggtttgtg	W54674	53113	tctccagataatcactagccagatt	X70842	95717	gacgccagcgtcttcagcctggccg	AA137821
10510	ataacctgggctagccgacaggaca	W54674	53114	gataatcactagccagatttcgaaa	X70842	95718	gccagcgtcttcagcctggccgact	AA137821
10511	acctgggctagccgacaggacaagg	W54674	53115	cactagccagatttcgaaattactt	X70842	95719	agcgtcttcagcctggccgactcca	AA137821
10512	taacatggggttcccttccgtcatg	W54674	53116	ttttagccgaggttatgataacatc	X70842	95720	gcgtcttcagcctggccgactccaa	AA137821
10513	gttcccttccgtcatggttagtcag	W54674	53117	taacatctactgtatcctttagaat	X70842	95721	taccctggcagcaggatttggatga	AA137821
10514	ttcccttccgtcatggttagtcaga	W54674	53118	aaactatgtctactggtttctgcct	X70842	95722	cggccagcgttatccgctggtctga	AA137821
10515	ccttccgtcatggttagtcagagcg	W54674	53119	gcgtttcctactcctaatgagagtt	X70842	95723	aagtagctcctgaagcttccgcatc	AA137822
10516	ttccgtcatggttagtcagagcgtc	W54674	53120	gatgcagcttgctccttcctcatct	X70842	95724	tagctcctgaagcttccgcatccag	AA137822
10517	tccgtcatggttagtcagagcgtcg	W54674	53121	ctcatctctcaggctgtgccttaat	X70842	95725	tgattgctcctacgcaagtaacaga	AA137822
10518	gtccaaatctctggatacctgaaca	L34169	53122	tctcaggctgtgccttaattcagaa	X70842	95726	gtactgtgaactcggacatttgcgg	AA137822
10519	atctctggatacctgaacaggacac	L34169	53123	ttcagaacaccaaaagagaggaacg	X70842	95727	tgaactcggacatttgcggcgagga	AA137822
10520	agccttgctcctgatggacacacac	L34169	53124	tcctgacggggccgaagaattgtga	X70842	95728	cggacatttgcggcgaggacactgc	AA137822
10521	acatagcgcgggcactggcccagtg	L34169	53125	aaaggctcaggctggtgttcttcct	X70842	95729	tacgtgcatatgctacgaggtctag	AA137822
10522	acaagcttccccaggaaggctgaga	L34169	53126	tggtgttcttcctctatctccactc	X70842	95730	catatgctacgaggtctagaagttc	AA137822
10523	ctgcatctgctccagatgttctgct	L34169	53127	acaacgcaggtagcgcgttacgagc	AA038953	95731	atgctacgaggtctagaagttcagt	AA137822
10524	cagatgttctgctttcacctaaaag	L34169	53128	acgcaggtagcgcgttacgagcagc	AA038953	95732	gttcagtgaacagctggggaaatgt	AA137822
10525	ttctgctttcacctaaaaggccctg	L34169	53129	accgtcattgggtcaattgggtcag	AA038953	95733	ctcccagggtcgctgtgagaagaca	AA137822
10526	gggatacacagcactggagattgta	L34169	53130	ccaacagaagcccgactgcaggatt	AA038953	95734	aagtttcctgtgtgtgtgctcggta	AA137822
10527	taacctatcagcaatattcatcaga	L34169	53131	caacagaagcccgactgcaggattt	AA038953	95735	ctgaagcttccgcatccagtgccag	AA137822
10528	atcagcaatattcatcagagcagct	L34169	53132	aacagaagcccgactgcaggatttg	AA038953	95736	aagcttccgcatccagtgccagcca	AA137822
10529	aatattcatcagagcagctagcgat	L34169	53133	cagaagcccgactgcaggatttggt	AA038953	95737	cttccgcatccagtgccagccaagt	AA137822
10530	actcatgggctctttgctggaacct	L34169	53134	agaagcccgactgcaggatttggtc	AA038953	95738	catccagtgccagccaagtgattgc	AA137822
10531	tttgctggaacctcacttcagaccc	L34169	53135	gaagcccgactgcaggatttggtca	AA038953	95739	ccagtgccagccaagtgattgctcc	AA137822
10532	tcacttcagaccctggaagcctcag	L34169	53136	aagcccgactgcaggatttggtcaa	AA038953	95740	gtgccagccaagtgattgctcctac	AA137822
10533	cagaccctggaagcctcagacatct	L34169	53137	gcccgactgcaggatttggtcaacg	AA038953	95741	gccaagtgattgctcctacgcaagt	AA137822
10534	gcctcagacatctcgcccggagctt	L34169	53138	cccgactgcaggatttggtcaacga	AA038953	95742	aagtgattgctcctacgcaagtaac	AA137822
10535	tccctggcattcaacctccagggtg	L34169	53139	cgcaggtagcgcgttacgagcagca	AA038953	95743	caatttgtattgtccttggagcagg	D13003
10536	gcattcaacctccagggtggacttc	L34169	53140	tagcgcgttacgagcagcagaagcg	AA038953	95744	gtattgtccttggagcaggcatggt	D13003
10537	tctccaagccttgctcctgatggac	L34169	53141	agcgcgttacgagcagcagaagcgg	AA038953	95745	aatgtgcacaataaacccacatcct	D13003
10538	ggagtcatcgtcttcgacaatgtga	W54702	53142	cgcgttacgagcagcagaagcggag	AA038953	95746	tgaccatggtcaacaccttaatata	D13003
10539	gtcatcgtcttcgacaatgtgaact	W54702	53143	gttacgagcagcagaagcggaggca	AA038953	95747	tggtcaacaccttaatatacttgag	D13003
10540	gatgggcctctggttctgaagcacc	W54702	53144	tggtgcagcaaccctcggctgcgtc	AA038953	95748	ccctggctgtgaggctagggatcag	D13003

TABLE 1

SEQ ID NO	sequence	DBAxnID
10541	gggcctctggttctgaagcacctga	W54702
10542	cctctggttctgaagcacctgactg	W54702
10543	gttctgaagcacctgactgcgctca	W54702
10544	ctgaagcacctgactgcgctcatca	W54702
10545	ctgactgcgctcatcaagtccaggg	W54702
10546	ctcatcaagtccagggaaaaggttg	W54702
10547	gccctcttcaggctgtcagaacccg	W54702
10548	ctcttcaggctgtcagaacccgagg	W54702
10549	ttcaggctgtcagaacccgagggga	W54702
10550	atcgtcttcgacaatgtgaacttca	W54702
10551	aatgtgaacttcacctacagcttag	W54702
10552	gtgaacttcacctacagcttagatg	W54702
10553	aacttcacctacagcttagatgggc	W54702
10554	ttcacctacagcttagatgggcctc	W54702
10555	tacagcttagatgggcctctggttc	W54702
10556	agcttagatgggcctctggttctga	W54702
10557	ttagatgggcctctggttctgaagc	W54702
10558	agaatgctatttgtctcctaagtgt	M94384
10559	acttgtcgttgtatatggggcatat	M94384
10560	acccctctacctgttgacttgcat	M94384
10561	tctacctgttgacttgcatgttgct	M94384
10562	cttgcatgttgcttctattgtgctc	M94384
10563	ttctattgtgctcctgaatgattga	M94384
10564	tgtgctcctgaatgattgatttctt	M94384
10565	tacaacatgcctctgaatggtttgg	M94384
10566	atgcctctgaatggtttggtttcct	M94384
10567	gctgtatgctgactcatctcattgc	M94384
10568	gattaaccattgtgtccacatgaac	M94384
10569	ttctctctgcagtgtgaaactgttt	M94384
10570	attcagaggcccataatagccacga	M94384
10571	aggcccataatagccacgaagttat	M94384
10572	aagttatccagttatgctaaccata	M94384
10573	tccagttatgctaaccatagagatc	M94384
10574	tagctcataggtccttcataagcct	M94384
10575	ataggtccttcataagcctaagcat	M94384
10576	taagcctaagcatccgtattaaatg	M94384
10577	taagcatccgtattaaatgtgaaac	M94384
10578	ccgtgttgcttcgccatcttcggaa	W54760
10579	tgttgcttcgccatcttcggaaggt	W54760
10580	gttgactgccatttgtagaaggtcc	W54760
10581	actgcaagtgtgggacacggctggc	W54760
10582	cacggctggccaagaacgattcaag	W54760
10583	agccatgggcattatcctcgtatat	W54760
10584	catgggcattatcctcgtatatgac	W54760
10585	gggcattatcctcgtatatgacatc	W54760
10586	cattatcctcgtatatgacatcaca	W54760
10587	tatcctcgtatatgacatcacagat	W54760
10588	cctcgtatatgacatcacagatgag	W54760
10589	atatgacatcacagatgagaaatcc	W54760
10590	tgcttcgccatcttcggaaggtctt	W54760
10591	ttcgccatcttcggaaggtcttcta	W54760
10592	atcttcggaaggtcttctactctgt	W54760
10593	ggaaggtcttctactctgttcgaat	W54760
10594	aggtcttctactctgttcgaatgca	W54760
10595	actctgttcgaatgcaacggaatgc	W54760
10596	tgcaacggaatgcccgttgactgcc	W54760
10597	atgcccgttgactgccatttgtaga	W54760
10598	gccatcttctttcttgtgccgttga	U36757
10599	tccacggtctgctacacgtccatca	U36757
10600	gacagtcctggtacagaggcagcct	U36757
10601	ctcctctgcgtctgtgtgagcagcg	U36757
10602	tgcgtctgtgtgagcagcgtgagct	U36757
10603	tgtgtgagcagcgtgagctgctgca	U36757
10604	tgctgcatcgatccgttgatttact	U36757
10605	agcatcttgtgctgcaaagaaagct	U36757
10606	tctgatcccaacagttgcaacagca	U36757
10607	agttgcaacagcaccggccagctga	U36757
10608	atggatacctgctctagtcacctga	U36757

SEQ ID NO	sequence	DBAxnID
53145	gtgcagcaaccctcggctgcgtcgg	AA038953
53146	tccaagaagctttctccctaattcg	AA038953
53147	tacatggtcctacggccatggtctg	AA038955
53148	atggtcctacggccatggtctggta	AA038955
53149	tgtgaattgcgatcctctgtgcagt	AA038955
53150	gaattgcgatcctctgtgcagttac	AA038955
53151	ttgcgatcctctgtgcagttactag	AA038955
53152	tcctctgtgcagttactagctgaag	AA038955
53153	tctgtgcagttactagctgaagatc	AA038955
53154	ttactagctgaagatctgtgacact	AA038955
53155	gatctgtgacactggacatgctgga	AA038955
53156	ctgtgacactggacatgctggacct	AA038955
53157	tgacactggacatgctggacctggg	AA038955
53158	cactggacatgctggacctgggggc	AA038955
53159	gtcctacggccatggtctggtagtg	AA038955
53160	caccacgactaagtactttgtgagc	AA038955
53161	taagtactttgtgagcagcggctct	AA038955
53162	gtactttgtgagcagcggctctgtc	AA038955
53163	ctttgtgagcagcggctctgtcact	AA038955
53164	tgtgagcagcggctctgtcactgtg	AA038955
53165	cggctctgtcactgtgaattgcgat	AA038955
53166	ctctgtcactgtgaattgcgatcct	AA038955
53167	atggcctctcggaaacgcgcacaat	AA038957
53168	tctcggaaacgcgcacaattcggaa	AA038957
53169	gacttctacggctacagcggttgtg	AA038957
53170	acttctacggctacagcggttgtgt	AA038957
53171	ttctacggctacagcggttgtgtga	AA038957
53172	tctacggctacagcggttgtgtgat	AA038957
53173	tacggctacagcggttgtgtgatgg	AA038957
53174	aaatcgaagctttcggactacagag	AA038957
53175	ggatttcaattcaaccaactggcgt	AA038957
53176	atttcaattcaaccaactggcgttg	AA038957
53177	tttcaattcaaccaactggcgttga	AA038957
53178	tcaattcaaccaactggcgttgagt	AA038957
53179	aaagtcggctctctgacttctacgg	AA038957
53180	agtcggctctctgacttctacggct	AA038957
53181	gtcggctctctgacttctacggcta	AA038957
53182	ggctctctgacttctacggctacag	AA038957
53183	ctctctgacttctacggctacagcg	AA038957
53184	tctctgacttctacggctacagcgg	AA038957
53185	tctgacttctacggctacagcggtt	AA038957
53186	ctgacttctacggctacagcggttg	AA038957
53187	aagccaagtgtttcaggctgcgctg	X79003
53188	tcaggctgcgctgtgagtttgggcc	X79003
53189	tgctcctaggtctgctcatctacgt	X79003
53190	tctacgtcctctacaagctcggctt	X79003
53191	tcctctacaagctcggcttcttcaa	X79003
53192	cctacggcacagccatggaaaaagc	X79003
53193	cagatgcctgagccctcctgatctc	X79003
53194	ccctcctgatctcagactcatgatc	X79003
53195	tgatctcagactcatgatcccgaag	X79003
53196	catgatcccgaagagccagtccaat	X79003
53197	gagccagtccaatacctccgacag	X79003
53198	gcacttcctgaaggtgctgagggct	X79003
53199	accgccaagagagccgtagtctgca	X79003
53200	gtctgcagctccatttccgagtctg	X79003
53201	aataccagccatttagccttcagtg	X79003
53202	agccatttagccttcagtgtgaggc	X79003
53203	ctctgaagatgccctaccagatcct	X79003
53204	ccacagccgtgcagtggaccaaggc	X79003
53205	tcccgttgtggatcatcatcctagc	X79003
53206	gcctcctgctcctaggtctgctcat	X79003
53207	gcaacctgatgtccgtggactacat	AA038960
53208	tgtccgtggactacatcaacgtggt	AA038960
53209	acacctctgactggaagttgcgtgc	AA038960
53210	tgcgtgctgatcacggactatcagg	AA038960
53211	ctgatcacggactatcaggagaaac	AA038960
53212	aaactgcagtcggagctaaggtcca	AA038960

SEQ ID NO	sequence	DBAxnID
95749	tgaatctctgagcctgcttctagca	D13003
95750	tctgagcctgcttctagcacagctt	D13003
95751	cctgcttctagcacagcttatgcca	D13003
95752	cattgaccaaactagctggagtaac	D13003
95753	ttccaccctgtagatgggaggaaag	D13003
95754	caccctgtagatgggaggaaagtga	D13003
95755	tccttggagcaggcatggtatttca	D13003
95756	tatttcaaatcttctatacttggag	D13003
95757	aaatcttctatacttggagctgtct	D13003
95758	tctatacttggagctgtcttgtaaa	D13003
95759	tgcgttttcctgtatagacctgcta	D13003
95760	ttcctgtatagacctgctaatgtgc	D13003
95761	tatagacctgctaatgtgcacaata	D13003
95762	cctgctaatgtgcacaataaaccca	D13003
95763	aacgcctccttggcattcattccgt	L27842
95764	tccttggcattcattccgtattttg	L27842
95765	tgtcttcctggtgtaccctctgtac	L27842
95766	gtaccctctgtactggtgctgctgg	L27842
95767	acagtacactaggcagcagtggaaa	L27842
95768	ggcccacaatgcctcacactattgg	L27842
95769	caatgcctcacactattggatgtga	L27842
95770	ctcacactattggatgtgaacatgt	L27842
95771	tattttgttactactgtgttaagag	L27842
95772	gtagcttcctatttgacatatactt	L27842
95773	ttgacatatactttacgtgcccgaa	L27842
95774	tatactttacgtgcccgaagtgtgg	L27842
95775	gcattcattccgtattttgcaagcc	L27842
95776	tattttgcaagccccagaacatgcg	L27842
95777	gcaagccccagaacatgcgcgaagt	L27842
95778	cccagaacatgcgcgaagttggctt	L27842
95779	aacttctctggcatggctttgctga	L27842
95780	tgatttttctcttaccacttatcaa	L27842
95781	ttctcttaccacttatcaatatcca	L27842
95782	taccacttatcaatatccagaagtt	L27842
95783	gatccatggcccgaggaagatcctg	AA137962
95784	tccatggcccgaggaagatcctgag	AA137962
95785	agtgccaccatggcaactgcaccgt	AA137962
95786	gtgccaccatggcaactgcaccgta	AA137962
95787	tgccaccatggcaactgcaccgtac	AA137962
95788	gccaccatggcaactgcaccgtaca	AA137962
95789	ccaccatggcaactgcaccgtacaa	AA137962
95790	caccatggcaactgcaccgtacaac	AA137962
95791	catggcaactgcaccgtacaactac	AA137962
95792	atattactagttgtgacacgggtgc	AA137962
95793	tattactagttgtgacacgggtgca	AA137962
95794	attactagttgtgacacgggtgcag	AA137962
95795	atggcccgaggaagatcctgaggga	AA137962
95796	ttactagttgtgacacgggtgcagg	AA137962
95797	aagatcctgagggagccgcaggagc	AA137962
95798	agatcctgagggagccgcaggagca	AA137962
95799	accgcgactgccacccgagtgtctg	AA137962
95800	ctacctgccagggcctcggctgacg	AA137962
95801	tacctgccagggcctcggctgacgg	AA137962
95802	ggaaagctgcccagccaccagcaac	AA137962
95803	cagtgccaccatggcaactgcaccg	AA137962
95804	gcggcccacggagcaatacagtgac	AA145829
95805	gcaatacagtgacatcgggggcctg	AA145829
95806	tgcccgagcctgtgctgctcagacc	AA145829
95807	ctgtgctgctcagaccaaggccacc	AA145829
95808	tgctgctcagaccaaggccaccttc	AA145829
95809	tcagaccaaggccaccttcttgaag	AA145829
95810	caccttcttgaagctggcaggccct	AA145829
95811	cttgaagctggcaggccctcagctg	AA145829
95812	aggccctcagctggtacagatgttt	AA145829
95813	ccctcagctggtacagatgtttatt	AA145829
95814	tggcgccaagctggtccgtgatgct	AA145829
95815	cgccaagctggtccgtgatgctttt	AA145829
95816	atacagtgacatcgggggcctggac	AA145829

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10609	tctagtcacctgaataacagcatat	U36757	53213	atctgcaccacgatcctgggacttg	AA038960	95817	caagctggtccgtgatgcttttgcc	AA145829
10610	gtctgctacacgtccatcatccggt	U36757	53214	tgcaccacgatcctgggacttgtgg	AA038960	95818	gatccaggagctggtggaagccatt	AA145829
10611	tccatcatccggtgcctgagctcct	U36757	53215	gtattgaatacccaaggcatttgat	AA038960	95819	agccattgtcttgcctatgaaccac	AA145829
10612	atccggtgcctgagctcctccgcgg	U36757	53216	ttgaatacccaaggcatttgatcca	AA038960	95820	cattgtcttgcctatgaaccacaaa	AA145829
10613	gttgccaaccggagcaagaagtcgc	U36757	53217	aatacccaaggcatttgatccactc	AA038960	95821	tgtcttgcctatgaaccacaaagag	AA145829
10614	ctgtctgccgcggtgttctgcatct	U36757	53218	caaggcatttgatccactcagtaac	AA038960	95822	gcctatgaaccacaaagagaagttt	AA145829
10615	gtgttctgcatcttcatcgtctgct	U36757	53219	ccgtggactacatcaacgtggtagt	AA038960	95823	gccccccaaaaggagtgctgatgtat	AA145829
10616	ttcatcgtctgctttgggcccacca	U36757	53220	tcaacgtggtagtgggccgcagtca	AA038960	95824	gaagactctgcttgcccgagcctgt	AA145829
10617	ctcctgattgtgcactacctttttcc	U36757	53221	gccgcagtcagcctgagactgtcat	AA038960	95825	gagctcaataaacccgccatgatct	M64796
10618	gtcgccctttgagcagcgcctttcc	W54566	53222	gtcagcctgagactgtcatcgctat	AA038960	95826	aaacccgccatgatctattgttctc	M64796
10619	cgcctttcccacgactatatcagca	W54566	53223	ctgagactgtcatcgctatcattga	AA038960	95827	ctctctgaatctactttcaatcata	M64796
10620	aaggcatccccaacgtgctagcgcg	W54566	53224	agcagcggaccgacacctctgactg	AA038960	95828	tctgaatctactttcaatcataaac	M64796
10621	aggcatccccaacgtgctagcgcgc	W54566	53225	ggaccgacacctctgactggaagtt	AA038960	95829	gaatctactttcaatcataaacatt	M64796
10622	ggcatccccaacgtgctagcgcgca	W54566	53226	ccgacacctctgactggaagttgcg	AA038960	95830	actttcaatcataaacattattttg	M64796
10623	ccaacgtgctagcgcgcactcgcga	W54566	53227	ctgccaaatgctgctgaaggctgca	AA039196	95831	ttcaatcataaacattattttgatt	M64796
10624	caacgtgctagcgcgcactcgcgag	W54566	53228	ccaaatgctgctgaaggctgcagct	AA039196	95832	tgttactgaaatctctatgttatgt	M64796
10625	aacgtgctagcgcgcactcgcgagc	W54566	53229	actgagccaggccactccactgagt	AA039196	95833	tttaacatcttatccaggaatgtct	M64796
10626	tgctagcgcgcactcgcgagccatc	W54566	53230	gagccaggccactccactgagtatc	AA039196	95834	atcttatccaggaatgtcttaaatg	M64796
10627	cgcactcgcgagccatctctgcggt	W54566	53231	ctacttagccgctctactgctgtca	AA039196	95835	tgttatacagttttccattaaggat	M64796
10628	gcactcgcgagccatctctgcggtt	W54566	53232	agccgctctactgctgtcactcctg	AA039196	95836	tatacagttttccattaaggatatc	M64796
10629	actcgcgagccatctctgcggttgg	W54566	53233	tctactgctgtcactcctgccatct	AA039196	95837	gtacatgcccagtcgatggatttgg	M64796
10630	gcctttcccacgactatatcagcaa	W54566	53234	actgctgtcactcctgccatctcag	AA039196	95838	acactcatccacttgtcagaaggaa	M64796
10631	cctttcccacgactatatcagcaaa	W54566	53235	actcctgccatctcagctggactag	AA039196	95839	ctcatccacttgtcagaaggaagca	M64796
10632	tttcccacgactatatcagcaaagg	W54566	53236	agccattgacttgaccagggcactg	AA039196	95840	agagcattgcaaactcccaaaagaa	M64796
10633	ttcccacgactatatcagcaaaggc	W54566	53237	cattgacttgaccagggcactggta	AA039196	95841	aaagtcttgactcctgccaagaaat	M64796
10634	tcccacgactatatcagcaaaggca	W54566	53238	cttgaccagggcactggtagtctca	AA039196	95842	ttgactcctgccaagaaatccttcc	M64796
10635	cccacgactatatcagcaaaggcat	W54566	53239	aatgctgctgaaggctgcagctacc	AA039196	95843	tccttccttagaagactgtttgatt	M64796
10636	cacgactatatcagcaaaggcatcc	W54566	53240	ctttcccaagaggtttcagctgact	AA039196	95844	tttagcaaaagcccctcagactcag	M64796
10637	aaaggcatccccaacgtgctagcgc	W54566	53241	tcccaagaggtttcagctgactgag	AA039196	95845	tgtcgtcagctgtgtcaatgagatc	AA140523
10638	tttatggtttccaatggaggcattt	M13019	53242	gtttcagctgactgaggaagaggct	AA039196	95846	gatcgagcagcgaggcctgactgag	AA140523
10639	attcagattactcgggacaaggagt	M13019	53243	tcagctgactgaggaagaggctctc	AA039196	95847	cctgaccttctggctgagcaaagcc	AA140523
10640	atatgggtctgggcgtgcccttcaa	M13019	53244	ccgcatcagtgaccattatcctgta	AA039196	95848	gaccttctggctgagcaaagccttc	AA140523
10641	gcgtgcccttcaacattgccagcta	M13019	53245	catcagtgaccattatcctgtagaa	AA039196	95849	gctgagcaaagccttcatggaggca	AA140523
10642	ccttcaacattgccagctatgctct	M13019	53246	tgaccattatcctgtagaagtggaa	AA039196	95850	gagcaaagccttcatggaggcagca	AA140523
10643	ccagctatgctctgctcacctacat	M13019	53247	caataatgcctactgtgtgacctgt	Z29532	95851	agccttcatggaggcagcagagata	AA140523
10644	atgctctgctcacctacatgattgc	M13019	53248	tgcctactgtgtgacctgtaatcgg	Z29532	95852	cttcatggaggcagcagagataaca	AA140523
10645	tgctcacctacatgattgcacatat	M13019	53249	caatgccacatacgccagcgagtgt	Z29532	95853	tgaagacaacagcacagccgccatg	AA140523
10646	cacatatcacaggcctgcagccagg	M13019	53250	cacatacgccagcgagtgtgccatg	Z29532	95854	caacagcacagccgccatgtaccag	AA140523
10647	tcacaggcctgcagccaggtgattt	M13019	53251	ctgctcttctggcgtgcttcttgaa	Z29532	95855	cagcacagccgccatgtaccaggct	AA140523
10648	ggtataatccacatccaacgattaa	M13019	53252	gcattctggatcttgcaactccatc	Z29532	95856	cacagccgccatgtaccaggctgtc	AA140523
10649	atccacatccaacgattaaaatgga	M13019	53253	ctttcctatctcttccattctagag	Z29532	95857	cctgactgaggcaggcttgtacagg	AA140523
10650	tagaccagctgcaaaaagtgattga	M13019	53254	tatctcttccattctagagtggtaa	Z29532	95858	cgccatgtaccaggctgtcagtgag	AA140523
10651	tcaaaaccaaccctgatgacagaag	M13019	53255	ttccattctagagtggtaaactctc	Z29532	95859	cttgtacaggatctcaggctgtgac	AA140523
10652	ccaaccctgatgacagaagaatcat	M13019	53256	aactctccaccaatgttcagtgttg	Z29532	95860	ctgtgaccgcacagtgaaagaactg	AA140523
10653	tcatgtgtgcctggaacccaaaaga	M13019	53257	ccaccaatgttcagtgttgacatag	Z29532	95861	ggacgatatccacgtcatctgcagc	AA140523
10654	cttgccatgccctctgtcagttcta	M13019	53258	agtgttgacatagcctttgggcaaa	Z29532	95862	cgatatccacgtcatctgcagcctc	AA140523
10655	agttctatgtggtgaatggggaact	M13019	53259	ctgtgtgacctgtaatcggatttgc	Z29532	95863	tatccacgtcatctgcagcctcctg	AA140523
10656	gccagctttaccagaggtcaggaga	M13019	53260	ctcttctgaacagtacctttgtgga	Z29532	95864	catctgcagcctcctgaaggacttc	AA140523
10657	tttaccagaggtcaggagatatggg	M13019	53261	ctgcttgctgggcagatccattgga	Z29532	95865	cctgaaggacttcctgcgcaacctc	AA140523
10658	tctaccaggtcattctcagccacca	M12379	53262	cattggattagcctatgagggaaag	Z29532	95866	atctgtcatttagtgttggatggtc	AA140529
10659	aagcgctctgccatcactgaagaag	M12379	53263	gtgtatcacaaagtcctgtgaagat	Z29532	95867	ctttaaactgcgaattgtcttcatt	AA140529
10660	gacccagcttaccaagggagagcct	M12379	53264	atgcctatgggattccaaggttggc	Z29532	95868	ggatttctgcttcctctttcttaag	AA140529
10661	cccccagacagcgagagtcttgcaa	M12379	53265	ctgcgatgagctgtgtcctgacagt	Z29532	95869	ctgcttcctctttcttaagatgatc	AA140529
10662	ctcttccaagacctcctaatctcag	M12379	53266	tgagctgtgtcctgacagtaagtcg	Z29532	95870	cttcctctttcttaagatgatctaa	AA140529
10663	caagacctcctaatctcaggggcag	M12379	53267	ggtagaagaccacaccagagactgt	AA039021	95871	cctctttcttaagatgatctaatct	AA140529
10664	ggcgtgcacacttttggaagatag	M12379	53268	gtagaagaccacaccagagactgtc	AA039021	95872	tgaagatttccttctgttcatggta	AA140529
10665	aagatagctttcccaaggatcctct	M12379	53269	cctaggtactccctggcatctcact	AA039021	95873	agatttccttctgttcatggtactc	AA140529
10666	cccatcaccatgtataataccacca	M12379	53270	ctaggtactccctggcatctcactt	AA039021	95874	ccttctgttcatggtactcggctaa	AA140529
10667	accatgtataataccaccactgcta	M12379	53271	aggtactccctggcatctcacttttt	AA039021	95875	tctgttcatggtactcggctaacgt	AA140529
10668	acagcatctcaccgaggaagaaaat	M12379	53272	ggtactccctggcatctcacttttt	AA039021	95876	ttaacgtttcattttcagctccatt	AA140529
10669	tgcacaataaaaccaagcctctgga	M12379	53273	gtactccctggcatctcacttttttc	AA039021	95877	ctccattagtcttgcttttccgttg	AA140529
10670	tctgccatcactgaagaagccccct	M12379	53274	tactccctggcatctcacttttttct	AA039021	95878	actgcgaattgtcttcattatgtat	AA140529
10671	gcacaataaaaccaagcctctggag	M12379	53275	ctccctggcatctcacttttttctgg	AA039021	95879	ttaattccctgatgtgtagattcct	AA140529
10672	atcactgaagaagccccctagggct	M12379	53276	tccctggcatctcacttttttctggg	AA039021	95880	attccctgatgtgtagattcctaac	AA140529
10673	tcttgggccagggcacactcagtaa	M12379	53277	ccctggcatctcacttttttctgggg	AA039021	95881	tgtgtagattcctaacccttttccag	AA140529
10674	aacacgagcctgctgtctccaaagg	M12379	53278	cctggcatctcacttttttctggggt	AA039021	95882	tttccagcctttccagctctgcctg	AA140529
10675	agaactctgactccaggatctaagt	M12379	53279	tagaagaccacaccagagactgtca	AA039021	95883	ccagcctttccagctctgcctggat	AA140529
10676	ccaggatctaagtccgtgcaggaag	M12379	53280	gaagaccacaccagagactgtcaga	AA039021	95884	gcctttccagctctgcctggatttc	AA140529

TABLE 1

SEQ ID NO	sequence	DBAxnID
10677	ggggatcctagaaccatctggttgg	M12379
10678	cctagaaccatctggttggacccag	M12379
10679	tccttccagcaaccatgtctgacaa	
10680	ttccagcaaccatgtctgacaaacc	
10681	gcgagcccgccaatatgcactgtac	
10682	agcccgccaatatgcactgtacatt	
10683	ccgccaatatgcactgtacattcca	
10684	atatgcactgtacattccacaagca	
10685	tgcactgtacattccacaagcattg	
10686	actgtacattccacaagcattgcct	
10687	gtacattccacaagcattgcctcct	
10688	tccacaagcattgcctcctaattta	
10689	acaagcattgcctcctaatttaact	
10690	agcattgcctcctaatttaactcct	
10691	cagcaaccatgtctgacaaacccga	
10692	caaccatgtctgacaaacccgatat	
10693	ctgacaaacccgatatggctgagat	
10694	acaaacccgatatggctgagatcga	
10695	aacccgatatggctgagatcgagaa	
10696	atcctctgccttcaaaagaaacaat	
10697	ctctgccttcaaaagaaacaattga	
10698	gaggcgagcccgccaatatgcactg	
10699	gcagatcagactctcctcgttcgcg	
10700	cagatcagactctcctcgttcgcgc	
10701	agatcagactctcctcgttcgcgca	
10702	tccacaagcattgcctcctaattta	
10703	ccacaagcattgcctcctaatttaa	
10704	cacaagcattgcctcctaatttaac	
10705	acaagcattgcctcctaatttaact	
10706	caagcattgcctcctaatttaactc	
10707	agcattgcctcctaatttaactcct	
10708	gcattgcctcctaatttaactcctt	
10709	gcagatcagactctcctcgttcgcg	
10710	cagatcagactctcctcgttcgcgc	
10711	acaagcattgcctcctaatttaact	
10712	caagcattgcctcctaatttaactc	
10713	agcattgcctcctaatttaactcct	
10714	gcattgcctcctaatttaactcctt	
10715	agatcagactctcctcgttcgcgca	
10716	gcactctgctcggctccttccagca	
10717	cactctgctcggctccttccagcaa	
10718	actctgctcggctccttccagcaac	
10719	ctctgctcggctccttccagcaacc	
10720	tccacaagcattgcctcctaattta	
10721	ccacaagcattgcctcctaatttaa	
10722	cacaagcattgcctcctaatttaac	
10723	taagttccaggtagcccagcagtgg	W54637
10724	aagttccaggtagcccagcagtggg	W54637
10725	cagacccaaggcagcaagaagctaa	W54637
10726	agacccaaggcagcaagaagctaac	W54637
10727	gaagctaacgaggcaccatgcgaga	W54637
10728	cgaggcaccatgcgagagatcgtgc	W54637
10729	aggcaccatgcgagagatcgtgcac	W54637
10730	atgtatactacaacgaagcaactgg	W54637
10731	gtatactacaacgaagcaactggta	W54637
10732	tatactacaacgaagcaactggtaa	W54637
10733	atactacaacgaagcaactggtaat	W54637
10734	tactacaacgaagcaactggtaata	W54637
10735	agttccaggtagcccagcagtgggt	W54637
10736	gttccaggtagcccagcagtgggtg	W54637
10737	ttccaggtagcccagcagtgggtgt	W54637
10738	tccaggtagcccagcagtgggtgtg	W54637
10739	aggatcatcagacccactgacccag	W54637
10740	ggatcatcagacccactgacccaga	W54637
10741	gatcatcagacccactgacccagac	W54637
10742	actgacccagacccaaggcagcaag	W54637
10743	acgcgtccgcacaggagaccatcca	W54638
10744	cacaggagaccatccaatcacagcc	W54638
53281	aagaccacaccagagactgtcagag	AA039021
53282	agaccacaccagagactgtcagaga	AA039021
53283	gaccacaccagagactgtcagagag	AA039021
53284	gaaatgggctcttgagcgcacctcc	AA039021
53285	tcgttccctaggtactccctggcat	AA039021
53286	tccctaggtactccctggcatctca	AA039021
53287	agtctgggctgcagaaagagattgc	X83971
53288	gccccgtgtgcaaaatcagccccga	X83971
53289	tcatcaagcccatcagcatcgccgg	X83971
53290	tcactcccggcacttcaaaccttgt	X83971
53291	gcacttcaaaccttgtcttcaccta	X83971
53292	accccaatgtcctggagcaggagtc	X83971
53293	ccaatgtcctggagcaggagtcgcc	X83971
53294	agtcgccttcgtcgccctcagagtc	X83971
53295	cctcagagtcctgctccaaggctca	X83971
53296	ccaaggctcaccgcagaagcagtag	X83971
53297	ctcaccgcagaagcagtagcagtgg	X83971
53298	accagtcatcagactccttgaactc	X83971
53299	gcaaaatcagccccgaggaacgccg	X83971
53300	cctccgggctgcagtccttgcgcgg	X83971
53301	aagaggacagcccctcttcctcagc	X83971
53302	cctcttcctcagcagggatggacaa	X83971
53303	cttcctcagcagggatggacaagac	X83971
53304	agacccagcgctctgtcatcaagcc	X83971
53305	agcgctctgtcatcaagcccatcag	X83971
53306	ctgtcatcaagcccatcagcatcgc	X83971
53307	actgacgccagcgaatctcaccaca	X90875
53308	gccagcgaatctcaccacagtacta	X90875
53309	agcagcagtcctgaatggtgtttca	X90875
53310	cttttacattacagttacaatagtg	X90875
53311	gcttgtacaagcttgccaaagatag	X90875
53312	gaatacggatcgccagtcttacatc	X90875
53313	ggatcgccagtcttacatcgcactt	X90875
53314	ccagtcttacatcgcactttcagtt	X90875
53315	ttacatcgcactttcagttcctcca	X90875
53316	cgcactttcagttcctccatttgga	X90875
53317	tcctccatttggaattcagaaaggg	X90875
53318	catactttgacacctactgtgttaa	X90875
53319	gaatctgatacagcctcagttaatg	X90875
53320	gatacagcctcagttaatgagaatg	X90875
53321	agagcatggtccttcagaaaaggca	X90875
53322	tggtccaactagcgcttctggcgat	X90875
53323	tgaaattcctaagctaccgcgtact	X90875
53324	gctaccgcgtactctgggagaagaa	X90875
53325	agaagacagcactcaagaagcagca	X90875
53326	cagcactcaagaagcagcagtcctg	X90875
53327	tgaagactccaatacccatagacat	AA039104
53328	aagactccaatacccatagacatct	AA039104
53329	agagattgctgacactttggtgcaa	AA039104
53330	agattgctgacactttggtgcaaat	AA039104
53331	attgctgacactttggtgcaaatat	AA039104
53332	gtaaacagttcccatgtgagccgtt	AA039104
53333	acagttcccatgtgagccgttcaaa	AA039104
53334	agttcccatgtgagccgttcaaatt	AA039104
53335	ttcccatgtgagccgttcaaatttt	AA039104
53336	cccatgtgagccgttcaaattttg	AA039104
53337	ggagccaactttaagactggagtat	AA039104
53338	agtattgcgaggctttggcaatgct	AA039104
53339	gactccaatacccatagacatctga	AA039104
53340	ccaatacccatagacatctgactga	AA039104
53341	aatacccatagacatctgactgaat	AA039104
53342	cccatagacatctgactgaatttgt	AA039104
53343	tagacatctgactgaatttgttggt	AA039104
53344	catctgactgaatttgttggtttgg	AA039104
53345	ttaattatcattaccatgaagttgt	AA039104
53346	aattatcattaccatgaagttgtag	AA039104
53347	cggcaacaagcccttcaggcatcag	AA038992
53348	caagcccttcaggcatcaggtgaca	AA038992
95885	tttccagctctgcctggatttctgc	AA140529
95886	gctccaccaggtatgtgatgaaaca	AA137571
95887	aaaggcttgcctgtcctcaattcag	AA137571
95888	tgagcccaaagttgtcacaggttcc	AA137571
95889	aaagttgtcacaggttccgatgaga	AA137571
95890	agttgtcacaggttccgatgagact	AA137571
95891	tgtcacaggttccgatgagactgga	AA137571
95892	cacaggttccgatgagactggactt	AA137571
95893	acaggttccgatgagactggacttg	AA137571
95894	ttccgatgagactggacttggaagg	AA137571
95895	tccgatgagactggacttggaaggc	AA137571
95896	aaattccgaagttgattgagatgat	AA137571
95897	tgagatttacctttttgcgaacact	AA137571
95898	aaggcttgcctgtcctcaattcagg	AA137571
95899	gcttgcctgtcctcaattcagggta	AA137571
95900	ttgcctgtcctcaattcagggtatg	AA137571
95901	gtcctcaattcagggtatggcagtt	AA137571
95902	tcctcaattcagggtatggcagtta	AA137571
95903	ctcaattcagggtatggcagttaac	AA137571
95904	tcaattcagggtatggcagttaacc	AA137571
95905	attgagcccaaagttgtcacaggtt	AA137571
95906	agggccacacatggttgaaagatga	AA137871
95907	agaaggacttctccatttctcggag	AA137871
95908	acacctgctctagcaacgagctggc	AA137871
95909	gctctagcaacgagctggccctgcc	AA137871
95910	cctcctaccctaagccagtgcgtgt	AA137871
95911	gtgacagctgccataccctgctact	AA137871
95912	acagctgccataccctgctactgca	AA137871
95913	gccataccctgctactgcagcgctg	AA137871
95914	ataccctgctactgcagcgctgctc	AA137871
95915	cagcagggaccttgacctgttgacc	AA137871
95916	tgacctgttgacctccatcctcaga	AA137871
95917	cctgttgacctccatcctcagagtg	AA137871
95918	ggaagcaccactgccgaaactgtgg	AA137871
95919	gacctccatcctcagagtggaggaa	AA137871
95920	agcaccactgccgaaactgtggcca	AA137871
95921	actgccgaaactgtggccacatttt	AA137871
95922	gaaactgtggccacattttctgcaa	AA137871
95923	gtggccacattttctgcaacacctg	AA137871
95924	gccacattttctgcaacacctgctc	AA137871
95925	acattttctgcaacacctgctctag	AA137871
95926	gcaacacctgctctagcaacgagct	AA137871
95927	catataagggttccaccattacaca	AA140487
95928	tataagggttccaccattacacaga	AA140487
95929	gaaacatagtccatggcaaatgatg	AA140487
95930	acatagtccatggcaaatgatggaa	AA140487
95931	catagtccatggcaaatgatggaac	AA140487
95932	caaacggatcccagttatttatcag	AA140487
95933	ggatcccagttatttatcagaacag	AA140487
95934	gatcccagttatttatcagaacagc	AA140487
95935	ttatttatcagaacagcacagaatg	AA140487
95936	tatttatcagaacagcacagaatga	AA140487
95937	tttatcagaacagcacagaatgaat	AA140487
95938	ttatcagaacagcacagaatgaatg	AA140487
95939	ggttccaccattacacagaattatt	AA140487
95940	gttccaccattacacagaattattc	AA140487
95941	tccaccattacacagaattattcca	AA140487
95942	ccaccattacacagaattattccag	AA140487
95943	accattacacagaattattccagga	AA140487
95944	gacatttacaagccaaaatggaaca	AA140487
95945	catttacaagccaaaatggaacatg	AA140487
95946	atttacaagccaaaatggaacatgg	AA140487
95947	gcggacttcgcgagacctcactctc	W13875
95948	cggacttcgcgagacctcactctcg	W13875
95949	ggttctcgcggctgagcagggattt	W13875
95950	ttctcgcggctgagcagggatttaa	W13875
95951	tctcgcggctgagcagggatttaac	W13875
95952	cgccaccatgtctagcaaaagggca	W13875

TABLE 1

SEQ ID NO	sequence	DBAxnID
10745	ccccagagatgccaaggcctgtgta	W54638
10746	caaggcctgtgtagtacatggcagt	W54638
10747	acatggcagtgacttgaaggacatg	W54638
10748	gacctctgaggagctggatgacatt	W54638
10749	cattttgcggtaccacacggagatt	W54638
10750	tttgcggtaccacacggagattgtc	W54638
10751	tgtctttgctaggacctctcctcaa	W54638
10752	tgctaggacctctcctcaacagaag	W54638
10753	gacctctcctcaacagaagctcatc	W54638
10754	ctctcctcaacagaagctcatcatt	W54638
10755	aggagaccatccaatcacagccaaa	W54638
10756	agaccatccaatcacagccaaagcc	W54638
10757	tccaatcacagccaaagccattgct	W54638
10758	aatcacagccaaagccattgctaag	W54638
10759	cacagccaaagccattgctaagggg	W54638
10760	ccgcctcaacattccagtgaaccag	W54638
10761	caacattccagtgaaccaggtgaac	W54638
10762	ccaggtgaaccccagagatgccaag	W54638
10763	ttgctacaggcaggagtggagcaca	X62622
10764	gagcacagacttgttaccaggtctc	X62622
10765	atccctcctgcatctggtatggact	X62622
10766	gtcagccccatgaatccacagactt	X62622
10767	cccatgaatccacagacttcagcga	X62622
10768	aatccacagacttcagcgaatggaa	X62622
10769	ccctgagccgtgtttctggcttcaa	X62622
10770	tttctggcttcaaccaagtcattgc	X62622
10771	gcttcaaccaagtcattgctgcctt	X62622
10772	accaagtcattgctgccttcctctc	X62622
10773	cacacaccctcagtggggtctgtga	X62622
10774	tctcaagcttcccaagccattcttc	X62622
10775	agacttgttaccaggtctctctggc	X62622
10776	gttaccaggtctctctggcactgtc	X62622
10777	cacatgcagcagacaggcagcatta	X62622
10778	accctagctctgttagggcagagct	X62622
10779	ttttgcagaaactcttgaaggttgt	X62622
10780	ccaggtccttttcatcctgagagtg	X62622
10781	gacatgtccctcgtttttctgcagtg	X62622
10782	gttttctgcagtggccacctctctc	X62622
10783	atcagactctgacccagttcttgaa	AA072222
10784	agactctgacccagttcttgaatga	AA072222
10785	ctgtttgcttttgcagacaggcaga	AA072222
10786	tttgcagacaggcagacgggagatc	AA072222
10787	gtgaaacgtgatcccccatggatcc	AA072222
10788	aaacgtgatcccccatggatccagg	AA072222
10789	cgtgatcccccatggatccaggtgc	AA072222
10790	aaggacgacactgtgacgctgacgt	AA072222
10791	gacgacactgtgacgctgacgtgcg	AA072222
10792	acccagtggttccacaaccagagct	AA072222
10793	cagtggttccacaaccagagctcca	AA072222
10794	tggttccacaaccagagctccacct	AA072222
10795	ctctgacccagttcttgaatgactt	AA072222
10796	actttggagacccagatgtttcaga	AA072222
10797	gagacccagatgtttcagaatgcac	AA072222
10798	cagaatgcacattctggaagccaat	AA072222
10799	aatgcacattctggaagccaatggc	AA072222
10800	cattctggaagccaatggctactcc	AA072222
10801	ccaccactgacaatgttgctgctgt	AA072222
10802	acaatgttgctgctgtttgcttttg	AA072222
10803	cagcaaccgactacacgcatttcga	W54790
10804	gcaaccgactacacgcatttcgaca	W54790
10805	actaatcatacttatcatcaaacaa	W54790
10806	taatcatacttatcatcaaacaagt	W54790
10807	atcatacttatcatcaaacaagtga	W54790
10808	tacttatcatcaaacaagtgatgtt	W54790
10809	tgatgttaatccacacacaccattagg	W54790
10810	atgttaatccacacaccattaggac	W54790
10811	gttaatccacacaccattaggacga	W54790
10812	taatccacacaccattaggacgaac	W54790
53349	cgttctcatgaaacagctagatact	AA038992
53350	agatacttggttgtcgcttgcgact	AA038992
53351	ttggttgtcgcttgcgactgagtct	AA038992
53352	gtcgcttgcgactgagtctcttgta	AA038992
53353	tgcgactgagtctcttgtaatcaag	AA038992
53354	tgagtctcttgtaatcaagagagtt	AA038992
53355	gagagttcctctgcgatgatcgcac	AA038992
53356	tcctctgcgatgatcgcaccaggcg	AA038992
53357	atcgcaccaggcgtctatgattacg	AA038992
53358	gtctatgattacgacttctgcaagc	AA038992
53359	cttcaggcatcaggtgacaaggcta	AA038992
53360	aaggctatgctccagtatcattctc	AA038992
53361	atgctccagtatcattctcggtact	AA038992
53362	cattctcggtactgtcctgatgatc	AA038992
53363	tgtcctgatgatcctcactatgctc	AA038992
53364	gatgatcctcactatgctccatacg	AA038992
53365	cctcactatgctccatacgagcaag	AA038992
53366	tatgctccatacgagcaagagagtc	AA038992
53367	tctccagcaggagcatcagagggag	D12645
53368	gatcgaaggcctcctggagaacatc	D12645
53369	gaaacaaactccagtccctgacaag	D12645
53370	aactccagtccctgacaagaaggag	D12645
53371	agtccctgacaagaaggagagagac	D12645
53372	ttcccacgtgtacctcgcctataca	D12645
53373	gagtctgcgtcagtctctgatgaag	D12645
53374	gcgtcagtctctgatgaagttagaa	D12645
53375	aaagcgttctgcaaagcctgagacc	D12645
53376	ttctgcaaagcctgagaccgtaatt	D12645
53377	aaagcctgagaccgtaattgattct	D12645
53378	tgattctttacttcagtaaatgtac	D12645
53379	aggcctcctggagaacatccggcag	D12645
53380	gaacatccggcagctcagccgggag	D12645
53381	tgataacttcatacctcaggattac	D12645
53382	cttcatacctcaggattaccaggaa	D12645
53383	acctcaggattaccaggaaatgatt	D12645
53384	tgaaaactacgtccactggaatgaa	D12645
53385	ctacgtccactggaatgaagacata	D12645
53386	atgtgtggcctacacaggaaataac	D12645
53387	atctggggtcagccatgatgctcag	U05823
53388	tgctcagtgatcgactgacgtttct	U05823
53389	tgatttttcagcagagcagacata	U05823
53390	tgatgcggtgcctggaagacttggc	U05823
53391	tggaagacttggcctcagggaggcc	U05823
53392	aacctgatgcccagcgactgcagga	U05823
53393	acatagagaccaccaaggtggagat	U05823
53394	tgctgagactggctcttgcccggaa	U05823
53395	gactggctcttgcccggaatcttgc	U05823
53396	cccggaatcttgctcgggcaattat	U05823
53397	atcttgctcgggcaattataaggga	U05823
53398	aaggctcactggagggttcctgaga	U05823
53399	gtgatcgactgacgtttctgggaaa	U05823
53400	agaagcgctttggtgacgctgcttc	U05823
53401	gctttggtgacgctgcttctcttct	U05823
53402	tgctgtccctcatgacctctcagat	U05823
53403	ctcagattgcacctcgttctttctg	U05823
53404	ctcgttctttctggatgactctgct	U05823
53405	ctttctggatgactctgctcacaga	U05823
53406	ggatgactctgctcacagatgccct	U05823
53407	tgagtttgccaacctttgtcttcat	X51986
53408	gtttgccaacctttgtcttcatatt	X51986
53409	ctgcaatactgttgctatttcccac	X51986
53410	caatactgttgctatttcccactaa	X51986
53411	tgttgctatttcccactaaattcac	X51986
53412	agatgcttgctaacaccaggaggtt	X51986
53413	tgcttgctaacaccaggaggttcta	X51986
53414	tctagcaaggtcacttggtggacta	X51986
53415	atctgattatggctaccatcatatc	X51986
53416	tggctaccatcatatctacactttc	X51986
95953	gcacgacatgctggcgtcaatggga	W13875
95954	acgacatgctggcgtcaatgggaaa	W13875
95955	cgacatgctggcgtcaatgggaaaa	W13875
95956	gacatgctggcgtcaatgggaaaaa	W13875
95957	acatgctggcgtcaatgggaaaaaa	W13875
95958	catgctggcgtcaatgggaaaaaac	W13875
95959	acttcgcgagacctcactctcggtt	W13875
95960	ttcgcgagacctcactctcggttct	W13875
95961	tcgcgagacctcactctcggttctc	W13875
95962	cgcgagacctcactctcggttctcg	W13875
95963	gagacctcactctcggttctcgcgg	W13875
95964	acctcactctcggttctcgcggctg	W13875
95965	cctcactctcggttctcgcggctga	W13875
95966	cggttctcgcggctgagcagggatt	W13875
95967	tacgagaactcctgcaatcgatgct	AA137338
95968	cgagaactcctgcaatcgatgctcg	AA137338
95969	acacctttgtcagcgctgatgtaca	AA137338
95970	acctttgtcagcgctgatgtacact	AA137338
95971	ctttgtcagcgctgatgtacactac	AA137338
95972	ttgtcagcgctgatgtacactacct	AA137338
95973	gtcagcgctgatgtacactaccttc	AA137338
95974	gctgatgtacactaccttctgaatt	AA137338
95975	gcatattgtgcagtggcaggctact	AA137338
95976	atattgtgcagtggcaggctactct	AA137338
95977	attgtgcagtggcaggctactctaa	AA137338
95978	tgcagtggcaggctactctaatgcc	AA137338
95979	agaactcctgcaatcgatgctcgat	AA137338
95980	caggctactctaatgcctagcctct	AA137338
95981	ctcctgcaatcgatgctcgatgctg	AA137338
95982	cctgcaatcgatgctcgatgctgtc	AA137338
95983	aggaccaaagtgctgcgagtctcat	AA137338
95984	ccaaagtgctgcgagtctcatggag	AA137338
95985	aaagtgctgcgagtctcatggagta	AA137338
95986	agtgctgcgagtctcatggagtatt	AA137338
95987	ctacacctttgtcagcgctgatgta	AA137338
95988	tcgccatgttatcagccagacagga	L27453
95989	cggactcgcagccagtcagatgtac	L27453
95990	acgctgaagcggtcagactggaggt	L27453
95991	caatcagcaaacacaataagagtct	L27453
95992	acaataagagtctccttctcttctc	L27453
95993	gctatttcagccaatctggacactt	L27453
95994	tcagccaatctggacacttctttat	L27453
95995	aatctggacacttctttatactctc	L27453
95996	gcctccagctgtcagactggtttct	L27453
95997	agctgtcagactggtttctgtcatc	L27453
95998	tggccctgctctctgttatagacg	L27453
95999	tctgttatagacgcccggtccctgc	L27453
96000	gatgtacagtccgcagggcatcagt	L27453
96001	cagtccgcagggcatcagtgctaat	L27453
96002	ccctacagaaggccctggcagtgtt	L27453
96003	ccctggcagtgttcactctgatacc	L27453
96004	cagtgttcactctgatacctccaac	L27453
96005	tcactctgatacctccaactgatct	L27453
96006	tgatacctccaactgatctcccagc	L27453
96007	ctcccaacgctgaagcggtcagact	L27453
96008	agatttgcagctgaacctttcaca	AA138121
96009	gcagctgaacctttcacaagggct	AA138121
96010	tgcgcagattccattttgtggggaa	AA138121
96011	aattgcctgtgaggactggattcaa	AA138121
96012	gactgccagggatcaagatgtggaa	AA138121
96013	gggtgttccatccatgggagccaaa	AA138121
96014	tgttccatccatgggagccaaaagc	AA138121
96015	cctttgcattccgttcaaccctctg	AA138121
96016	tccgttcaaccctctgtgtaaactg	AA138121
96017	gttcaaccctctgtgtaaactgcag	AA138121
96018	ccctctgtgtaaactgcagccgcgg	AA138121
96019	tctgtgtaaactgcagccgcgggcc	AA138121
96020	tttcacaagggcttctgaagacctt	AA138121

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10813	atccacacaccattaggacgaacct	W54790	53417	ctaccatcatatctacactttccta	X51986	96021	aacccacatggttgtgtctaatgca	AA138121
10814	ccacacaccattaggacgaacctgg	W54790	53418	ccatcatatctacactttcctaaat	X51986	96022	ccacatggttgtgtctaatgcactg	AA138121
10815	aaccgactacacgcatttcgacagt	W54790	53419	atatcttaattgtcactgtgaataa	X51986	96023	tgtgtctaatgcactggaggacttc	AA138121
10816	ccgactacacgcatttcgacagtga	W54790	53420	aattcagacatactgacccttctaa	X51986	96024	gtctaatgcactggaggacttccag	AA138121
10817	gactacacgcatttcgacagtgact	W54790	53421	atactgacccttctaaagcttgcct	X51986	96025	tgcactggaggacttccagaaggtg	AA138121
10818	ctacacgcatttcgacagtgactaa	W54790	53422	catgctggtggcctttacaatttta	X51986	96026	cttccagaaggtgctagatgctgga	AA138121
10819	acacgcatttcgacagtgactaatc	W54790	53423	actttcagtggcattggactgctta	X51986	96027	ggttgcgcagattccattttgtggg	AA138121
10820	acgcatttcgacagtgactaatcat	W54790	53424	tgctgtgttcttttacctcaataaa	X51986	96028	ggacccacaggcatgtgctccaaga	AA097410
10821	atttcgacagtgactaatcatactt	W54790	53425	tgtgttcttttacctcaataaaatg	X51986	96029	atgtgctccaagaccacctgaagcc	AA097410
10822	tgactaatcatacttatcatcaaac	W54790	53426	atgctgcaatactgttgctatttcc	X51986	96030	ccattgatgacagcagcaagctcca	AA097410
10823	tgttgtgcttcttaaacgacaaaga	Z30970	53427	attttcgtgcatttgtgagccaaag	Z49976	96031	atgacagcagcaagctccatttgct	AA097410
10824	gcttcttaaacgacaaagaacatag	Z30970	53428	atattagagtgcccttaacataatg	Z49976	96032	gcagcaagctccatttgctgtcccc	AA097410
10825	gaaatgaccatgctctggggacagg	Z30970	53429	gtatatgaccaatctctgtgactcg	Z49976	96033	tcaaacaggccctggttacacagct	AA097410
10826	atgaccatgctctggggacaggggt	Z30970	53430	gaccaatctctgtgactcgcttagc	Z49976	96034	aggccctggttacacagctccagca	AA097410
10827	gtctatttttcctctagcaagccag	Z30970	53431	atgtttctgaagacctccgatacac	Z49976	96035	tggttacacagctccagcaaccggg	AA097410
10828	ttttcctctagcaagccagctgtgc	Z30970	53432	tttctgaagacctccgatacactga	Z49976	96036	aaccgggctccaaatccactgtctg	AA097410
10829	ccagctgtgctgaagcccagtagag	Z30970	53433	aagacctccgatacactgaccagtc	Z49976	96037	gctccaaatccactgtctgtacagt	AA097410
10830	gctgtgctgaagcccagtagagatg	Z30970	53434	acactgaccagtcccacaagtgttt	Z49976	96038	ctgtctgtacagtgcagcacatgag	AA097410
10831	gaagagacaccagccagagaaaacc	Z30970	53435	ctgaccagtcccacaagtgttttg	Z49976	96039	tgcagcacatgagcagcaatgctgt	AA097410
10832	ttgtagcactgtttacagttttcct	Z30970	53436	gaagacatgaaacccacactgtgca	Z49976	96040	tccaagaccacctgaagcctcagtc	AA097410
10833	cagttttcctccatgttatttatga	Z30970	53437	gacatgaaacccacactgtgcattt	Z49976	96041	tgaagcctcagtcccatcatggttg	AA097410
10834	atagctgtcctttattctaaacagt	Z30970	53438	cccacactgtgcatttagggtgtgc	Z49976	96042	ctcagtcccatcatggttgtcagcc	AA097410
10835	aacatagtgacttttggggatagat	Z30970	53439	ttagagtgcccttaacataatgatt	Z49976	96043	cccatcatggttgtcagccagctca	AA097410
10836	cctgcctcacatcaaggtgccattc	Z30970	53440	gagtgcccttaacataatgatttga	Z49976	96044	atggttgtcagccagctcaccaagg	AA097410
10837	tcacatcaaggtgccattcaggtag	Z30970	53441	aacatatgtgtactgtctggaaacg	Z49976	96045	gtcagccagctcaccaaggatggat	AA097410
10838	ggtgccattcaggtagttggctccc	Z30970	53442	tgtgtactgtctggaaacgaattct	Z49976	96046	cagctcaccaaggatggattcaccc	AA097410
10839	gtagttggctcccagctacttaacg	Z30970	53443	atcttgcttcagtagccttcgctct	Z49976	96047	attcgaccattgatgacagcagcaa	AA097410
10840	gttggctcccagctacttaacgata	Z30970	53444	cctcaggctgtatgtcagatgttct	Z49976	96048	aactttacgatcacagttgagaact	AA138166
10841	atcactttcgtatttgtatcagaga	Z30970	53445	aactagatctcctgtaattttgtag	Z49976	96049	ctttacgatcacagttgagaacttc	AA138166
10842	gatctaagtcagctgtttgggttga	Z30970	53446	tagatctcctgtaattttgtagtag	Z49976	96050	tctttatttgatgctttccatgcgg	AA138166
10843	tgctggtgcccgaagctgtaggttc	W54850	53447	catcgactggcatcctctccatcat	X73523	96051	tttatttgatgctttccatgcgggc	AA138166
10844	gctggtgcccgaagctgtaggttct	W54850	53448	ccattcatatctgtgatgaggtgga	X73523	96052	tttgatgctttccatgcgggctttc	AA138166
10845	aatcccttcctagactatgaggtcg	W54850	53449	gatgctgcgacccattaaggatgga	X73523	96053	tgatgctttccatgcgggctttcat	AA138166
10846	atcccttcctagactatgaggtcgc	W54850	53450	catctcccaggagccagtgtgttcc	X73523	96054	atgctttccatgcgggctttcataa	AA138166
10847	tcccttcctagactatgaggtcgct	W54850	53451	gtgttccagacgcttccggggctga	X73523	96055	catgcgggctttcataaggtctgtg	AA138166
10848	ccttcctagactatgaggtcgctgc	W54850	53452	tcccaggctttctggcagccccttg	X73523	96056	ttcataaggtctgtggaggaaaagt	AA138166
10849	cttcctagactatgaggtcgctgcc	W54850	53453	gcaccctcatgttgttatcatctac	X73523	96057	ctcttccagcctaatgaattacaag	AA138166
10850	ttcctagactatgaggtcgctgcct	W54850	53454	tgttatcatctacttagcaaagttg	X73523	96058	cttccagcctaatgaattacaagct	AA138166
10851	cctagactatgaggtcgctgcctcc	W54850	53455	catctacttagcaaagttgtccaac	X73523	96059	ttacaagctatggttattgggaata	AA138166
10852	gttcgcctctggaactgcggaggaa	W54850	53456	ctctcccaggatacagagccagtct	X73523	96060	agctggttctgaacggggcagacac	AA138166
10853	gcctctggaactgcggaggaaacag	W54850	53457	tgtcccctagctggggaaaagcgag	X73523	96061	ggttctgaacggggcagacactgct	AA138166
10854	cctctggaactgcggaggaaacagg	W54850	53458	attttgtcttctgagttggattgga	X73523	96062	ggcagacactgctgttaatagacag	AA138166
10855	tggtgcccgaagctgtaggttcttg	W54850	53459	gggagaacaacccatcagcgggtgc	X73523	96063	cagacactgctgttaatagacagaa	AA138166
10856	agattgttcctaacttgataaagcg	W54850	53460	acaacccatcagcgggtgccttccg	X73523	96064	gaatcggcaggagtttgttgatgcc	AA138166
10857	ggtgcccgaagctgtaggttcttgc	W54850	53461	acttcgagtacaacatcacaactac	X73523	96065	ttgttgatgcctatgtggattacat	AA138166
10858	gtgcccgaagctgtaggttcttgca	W54850	53462	agtacaacatcacaactaccctggc	X73523	96066	aaatcagtggcatctttatttgatg	AA138166
10859	cccgaagctgtaggttcttgcacca	W54850	53463	ccctggcagccatcaataaaatccg	X73523	96067	atcagtggcatctttatttgatgct	AA138166
10860	agttccacctaggagaggcggagat	W54850	53464	cagccatcaataaaatccgcatctt	X73523	96068	tacgtgtgtcccttgtgtgggaaag	AA138214
10861	tttcctaatcccttcctagactatg	W54850	53465	tcaataaaatccgcatcttcaaggg	X73523	96069	gggaaagccttcaaccacagcaccg	AA138214
10862	tcctaatcccttcctagactatgag	W54850	53466	aaatccgcatcttcaaggggagatg	X73523	96070	gcaccagcggtcacaccggggagaa	AA138214
10863	ctaatcccttcctagactatgaggt	W54850	53467	gcacagcagccagtggctgcatcag	AA041566	96071	agccctacacgtgcagcgagtgcgg	AA138214
10864	ccatggcatcctgtgtcctagattt	M64292	53468	agcagccagtggctgcatcaggctg	AA041566	96072	aaggccttcagcgaccgctccgtgc	AA138214
10865	catcctgtgtcctagatttctcagc	M64292	53469	acacgcggctgtagcaacagcgtct	AA041566	96073	ctcatccaacatcacaacgtacaca	AA138214
10866	ttgtgttttgtccgcacacaggtgc	M64292	53470	gtagcaacagcgtctgcacacgtga	AA041566	96074	tccaacatcacaacgtacacaccgg	AA138214
10867	tttgtccgcacacaggtgcctgccg	M64292	53471	agcaacagcgtctgcacacgtgatg	AA041566	96075	caacatcacaacgtacacaccggga	AA138214
10868	gtttagaagctgcctcctggtctca	M64292	53472	cgtctgcacacgtgatgtgaacacc	AA041566	96076	aaagcgtacgagtgcacagtgcgga	AA138214
10869	aagctgcctcctggtctcatgctta	M64292	53473	tctgcacacgtgatgtgaacaccat	AA041566	96077	cgtacgagtgcacagtgcggaagac	AA138214
10870	atgcttaaatcttcaattctttact	M64292	53474	atgtgaacaccatggactcgttggc	AA041566	96078	tacgagtgcacagtgcggaagacct	AA138214
10871	tcaattctttactgtccttgttcac	M64292	53475	gtgaacaccatggactcgttggcag	AA041566	96079	cgagtgcacagtgcggaagacctttt	AA138214
10872	tgtccttgttcactttagaaatgac	M64292	53476	acaccatggactcgttggcagcgtg	AA041566	96080	gaaagccttcaaccacagcaccgtc	AA138214
10873	aaatgacaaaccctagagctggact	M64292	53477	accatggactcgttggcagcgtgga	AA041566	96081	gtcctgcggaccaccagagggtgca	AA138214
10874	tgttgagcaggcctgtctctcttat	M64292	53478	catggactcgttggcagcgtggatg	AA041566	96082	cctgcggaccaccagagggtgcaca	AA138214
10875	gcaggcctgtctctcttattaagta	M64292	53479	gccagtggctgcatcaggctgccca	AA041566	96083	ggaagaccttcagcgtgaagaggac	AA138214
10876	tagatttctcagctcctcagtttct	M64292	53480	cagtggctgcatcaggctgcccacc	AA041566	96084	aagaccttcagcgtgaagaggacgc	AA138214
10877	tctcagctcctcagtttctgctcaa	M64292	53481	ggctgcatcaggctgcccaccgtgc	AA041566	96085	cgctgctgcagcaccagcggtcaca	AA138214
10878	ctcctcagtttctgctcaaaggtgc	M64292	53482	tgctgcccagctggccatgcaagag	AA041566	96086	gctgcagcaccagcggtcacaccgg	AA138214
10879	agtttctgctcaaaggtgctattta	M64292	53483	ctgcccagctggccatgcaagagtc	AA041566	96087	cagcaccagcggtcacaccggggag	AA138214
10880	ctatttaccaaactctctgcctgcc	M64292	53484	gcccagctggccatgcaagagtcgg	AA041566	96088	agccagcctcaagagaccagacaca	D17511

TABLE 1

SEQ ID NO:	sequence	DBAxnID
10881	ctctcttgctttaaccttaactctg	M64292
10882	gcctacaacaaagctgtgaattgtt	M64292
10883	tggttcttgtgttttgtccgcacac	M64292
10884	cccctcagtattcatgaggtgtagc	M95604
10885	cctctggacacagctgcttcgagcc	M95604
10886	tgtctggtgacacctgtttcacagc	M95604
10887	gtgacacctgtttcacagcagttta	M95604
10888	cctgtttcacagcagtttaactgtc	M95604
10889	aactgtctcagaagggaccatgaat	M95604
10890	taatggccatcacttgttaggggcc	M95604
10891	ccatcacttgttaggggccaagtgg	M95604
10892	ttcagcctggccaatgtgtctccca	M95604
10893	ctggccaatgtgtctcccagaacta	M95604
10894	gccaatgtgtctcccagaactattt	M95604
10895	aatgtgtctcccagaactattttgg	M95604
10896	gacacagctgcttcgagccatagaa	M95604
10897	gctgcttcgagccatagaactaaag	M95604
10898	catagaactaaagccaacccactgg	M95604
10899	gccaacccactggctgggaagcttg	M95604
10900	tacaacagactatgcaatagttccc	M95604
10901	cagctgtaaccatgcctcagcaggg	M95604
10902	tgcctcagcagggtggttactggac	M95604
10903	actggacacatgtccaggtgcccct	M95604
10904	tttaagaagtcttcagcccagactg	M68489
10905	aagtcttcagcccagactgctggct	M68489
10906	accttgaacaggctgccactcgctg	M68489
10907	aacaggctgccactcgctgaagccg	M68489
10908	agttcccttcttgattgccaagatg	M68489
10909	gattgccaagatgcctcaatgcaga	M68489
10910	caagatgcctcaatgcagactggag	M68489
10911	gcctcaatgcagactggagcccaga	M68489
10912	atgcagactggagcccagaccctgc	M68489
10913	cgtgttcagccaaaggtgaggacag	M68489
10914	tcctcagaacctcagctcttagtga	M68489
10915	gaacctcagctcttagtgagccact	M68489
10916	tcagcccagactgctggctcagaca	M68489
10917	cagactgctggctcagacaacaaga	M68489
10918	gcctctcagcaagtcctacaataca	M68489
10919	cagcaagtcctacaatacaactctg	M68489
10920	gtcctacaatacaactctgccaact	M68489
10921	cgcgggcctgccattcctaatggac	M68489
10922	cctgccattcctaatggacaatgta	M68489
10923	caatgtaccttgaacaggctgccac	M68489
10924	ccaccagtgcatgaggatgggcagg	W54907
10925	caccagcgcggagatggcccacact	W54907
10926	agggtctcgatgctggccgtcacac	W54907
10927	gtctcgatgctggccgtcacacata	W54907
10928	ctggccgtcacacatagcacgtcta	W54907
10929	gccgtcacacatagcacgtctaccg	W54907
10930	gtcacacatagcacgtctaccgaag	W54907
10931	acacatagcacgtctaccgaagtcc	W54907
10932	accgaagtccagagctcacagaaga	W54907
10933	gtccagagctcacagaagaaagagc	W54907
10934	cggacgggccacaacacaatggtgg	W54907
10935	ggccacaacacaatggtggacccga	W54907
10936	ggcccacactatgcacacgaggaga	W54907
10937	ccacactatgcacacgaggagaccg	W54907
10938	cactatgcacacgaggagaccgcga	W54907
10939	tatgcacacgaggagaccgcgatcg	W54907
10940	accgcgatcgcgcgcagtcgagcag	W54907
10941	taacggtccagggcgatgacacaca	W54907
10942	atgacacacagggtctcgatgctgg	W54907
10943	cacagggtctcgatgctggccgtca	W54907
10944	taccgaatgccatgcccggagacat	M30903
10945	atgccatgcccggagacatgtccac	M30903
10946	gcctccttctggactctgactttgg	M30903
10947	tatgttcacacttagctcttcttcc	M30903
10948	tagctcttcttccaggtaggttgca	M30903

SEQ ID NO:	sequence	DBAxnID
53485	cgagagacacgcggctgtagcaaca	AA041566
53486	agagacacgcggctgtagcaacagc	AA041566
53487	gttggcagccgaacaactcaccatt	X76989
53488	agccgaacaactcaccatttcatgt	X76989
53489	ttcttcaagtacattcacgacaggt	X76989
53490	ccttccacaggaatgctggtgctct	X76989
53491	atgctggtgctcttctttgcactac	X76989
53492	gtgctcttctttgcactacatgtgt	X76989
53493	acaggcgtgcatgacgccgacttcg	X76989
53494	gacgccgacttcgaagcccacatca	X76989
53495	gaagcccacatcatcgacatgctgg	X76989
53496	cacatcatcgacatgctggccaagg	X76989
53497	gccaaggccagcaagatcgaggtct	X76989
53498	gccctgagcgccttcagaaccagtc	X76989
53499	caccatttcatgtacccagagagtg	X76989
53500	gcgccttcagaaccagtcactcgag	X76989
53501	ttcatgtacccagagagtgccaaga	X76989
53502	tacccagagagtgccaagaacctgc	X76989
53503	aacctgcctgccaatgtcagcttcg	X76989
53504	cctgccaatgtcagcttcgtgctgg	X76989
53505	aatgtcagcttcgtgctggtcccct	X76989
53506	gccctggacctaatgtggattgcca	X76989
53507	cgattcacctatgccccagtgaagt	X76989
53508	gttttaaatctgcatcattgttgta	X65128
53509	ttaaatctgcatcattgttgtatct	X65128
53510	atagaatacattgctcaccaggaac	X65128
53511	gctcccgcagcccattttgaaatgt	X65128
53512	cattttgaaatgtgccctgtgtaga	X65128
53513	tttgaaatgtgccctgtgtagaaga	X65128
53514	gaaatgtgccctgtgtagaagaatg	X65128
53515	atgtgccctgtgtagaagaatgtac	X65128
53516	atgcatttccaaactgccttaaaca	X65128
53517	catttccaaactgccttaaacattg	X65128
53518	ttccaaactgccttaaacattgtat	X65128
53519	atgcacacaccagtaaagagtttaa	X65128
53520	aatctgcatcattgttgtatctccc	X65128
53521	catcattgttgtatctcccctatcc	X65128
53522	atctcccctatccaagaaatgtata	X65128
53523	tcccctatccaagaaatgtatagaa	X65128
53524	tcatgaggaatccactcctgcagcc	X65128
53525	tgaggaatccactcctgcagcccat	X65128
53526	tcctgcagcccatccaagaaatgta	X65128
53527	tgcagcccatccaagaaatgtatag	X65128
53528	gctgctgctgctgcacttcctctgc	AA041573
53529	gctgctgcacttcctctgccaggaa	AA041573
53530	ccaggaatactcggcgcagaacgca	AA041573
53531	caggaatactcggcgcagaacgcac	AA041573
53532	gcgcagaacgcacgcatcgtccgct	AA041573
53533	cagaacgcacgcatcgtccgcttgg	AA041573
53534	gaacgcacgcatcgtccgcttggtg	AA041573
53535	ggagactcgaatccacattctaccc	AA041573
53536	gagactcgaatccacattctaccct	AA041573
53537	tccctcaatcctgatggctatgaga	AA041573
53538	cctcaatcctgatggctatgagaag	AA041573
53539	ctcaatcctgatggctatgagaagg	AA041573
53540	ctgctgcacttcctctgccaggaat	AA041573
53541	gctgcacttcctctgccaggaatac	AA041573
53542	ctgcacttcctctgccaggaatact	AA041573
53543	gcacttcctctgccaggaatactcg	AA041573
53544	cacttcctctgccaggaatactcgg	AA041573
53545	ttcctctgccaggaatactcggcgc	AA041573
53546	cctctgccaggaatactcggcgcag	AA041573
53547	ctctgccaggaatactcggcgcaga	AA041573
53548	gaaaccctcgctgaagcggcacctg	W90894
53549	aaccctcgctgaagcggcacctgct	W90894
53550	cccctagctctacactaaagggcag	W90894
53551	ccctagctctacactaaagggcagg	W90894
53552	cctagctctacactaaagggcaggt	W90894

SEQ ID NO:	sequence	DBAxnID
96089	cctcaagagaccagacacaggagcc	D17511
96090	ctcttgcaccctgcagtctggtcaa	D17511
96091	caccctgcagtctggtcaaagagca	D17511
96092	ttgtaggctccctacacaaagcaca	D17511
96093	gctccctacacaaagcacacctgtt	D17511
96094	tacacaaagcacacctgttagcaga	D17511
96095	aagcacacctgttagcagagtgtgg	D17511
96096	agcctcaaaggtttcacctctgaca	D17511
96097	aaaggtttcacctctgacatcatta	D17511
96098	ttcacctctgacatcattacataag	D17511
96099	tctgacatcattacataagtgctac	D17511
96100	gaatggtttccctggtcagatggga	D17511
96101	tttccctggtcagatgggaatccgt	D17511
96102	aatccgtggtctcccaggcattaag	D17511
96103	ccctggtgctcttggcttaagagga	D17511
96104	taagggtttgcctggagcgataggt	D17511
96105	aggtgacccaggccctgccagctat	D17511
96106	cccaggccctgccagctatgggaaa	D17511
96107	ccctgccagctatgggaaaaatggc	D17511
96108	cagcccagtcaaattctctcctggg	AA138292
96109	tctcctggggatttctggggacgag	AA138292
96110	gcaaatcctcagacccctgtggaat	AA138292
96111	tcagacccctgtggaatacccaatg	AA138292
96112	ggaagcatcagcgccacttccaatc	AA138292
96113	acaagcttttcctatgatctccaaa	AA138292
96114	ttttcctatgatctccaaacggcca	AA138292
96115	cctatgatctccaaacggccagagc	AA138292
96116	tatgatctccaaacggccagagcac	AA138292
96117	atctccaaacggccagagcacctgc	AA138292
96118	ctccaaacggccagagcacctgcgg	AA138292
96119	aaacggccagagcacctgcggatga	AA138292
96120	ggatttctggggacgaggtgcttca	AA138292
96121	ttctggggacgaggtgcttcagcca	AA138292
96122	ggtgcttcagccagcacggcaaatc	AA138292
96123	tgcttcagccagcacggcaaatcct	AA138292
96124	tcagccagcacggcaaatcctcaga	AA138292
96125	agccagcacggcaaatcctcagacc	AA138292
96126	agcacggcaaatcctcagacccctg	AA138292
96127	cacggcaaatcctcagacccctgtg	AA138292
96128	gtggtgtccaccagccagtaggagc	U12763
96129	gagtgctctctccaggttaaggtga	U12763
96130	gatacccaccaaagaaccacgtcag	U12763
96131	caccaaagaaccacgtcagcgatgc	U12763
96132	agaaccacgtcagcgatgcaaagaa	U12763
96133	ggatttttcacagtctgagcaagac	U12763
96134	ttcacagtctgagcaagactgtttt	U12763
96135	gaaacatttccagatggtttcatat	U12763
96136	acatttccagatggtttcatatccc	U12763
96137	gatggtttcatatccccacaagagc	U12763
96138	atatccccacaagagcaggtcgtct	U12763
96139	tccccacaagagcaggtcgtctcgt	U12763
96140	tgctctctccaggttaaggtgatag	U12763
96141	agcaggtcgtctcgttccaagatct	U12763
96142	tacatgttgcctaaaactgtctctc	U12763
96143	ttgcctaaaactgtctctcatctca	U12763
96144	gcaacaaggtgcactcttttcctgg	U12763
96145	tgcactcttttcctggcccctgaat	U12763
96146	gcccctgaatacacataaaagacaa	U12763
96147	ttcaaagaactacctagggactatg	U12763
96148	gactatgatacccaccaaagaacca	U12763
96149	accatttttcatatgacgtgacagaa	AA153032
96150	cattttcatatgacgtgacagaaga	AA153032
96151	ccatctcaaactatgttggctgcaa	AA153032
96152	atctcaaactatgttggctgcaatg	AA153032
96153	ctcaaactatgttggctgcaatggg	AA153032
96154	caaactatgttggctgcaatgggtt	AA153032
96155	atatatacagtgcatctagtgtgtc	AA153032
96156	atatacagtgcatctagtgtgtcag	AA153032

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
10949	ttcttccaggtaggttgcagaatca	M30903	53553	ctagctctacactaaagggcaggtg	W90894	96157	atacagtgcatctagtgtgtcagag	AA153032
10950	tgcttctcaagtgagggagccagga	M30903	53554	tagctctacactaaagggcaggtgt	W90894	96158	acagtgcatctagtgtgtcagaggt	AA153032
10951	agatggcttcatggtgaggcatgag	M30903	53555	agctctacactaaagggcaggtgta	W90894	96159	agtgcatctagtgtgtcagaggtaa	AA153032
10952	gcatgagctctcaaggcacaacctc	M30903	53556	gctctacactaaagggcaggtgtat	W90894	96160	tgcatctagtgtgtcagaggtaaat	AA153032
10953	gctctcaaggcacaacctcggtcca	M30903	53557	ctctacactaaagggcaggtgtatc	W90894	96161	ttttcatatgacgtgacagaagaga	AA153032
10954	cggtccacctttcactggctgtgtg	M30903	53558	tctacactaaagggcaggtgtatct	W90894	96162	aagatgttccatgccaccgtggcta	AA153032
10955	ctgtgtgcctttggccaagttactt	M30903	53559	ctacactaaagggcaggtgtatctg	W90894	96163	gatgttccatgccaccgtggctacg	AA153032
10956	tgcccggagacatgtccaccggagt	M30903	53560	accctcgctgaagcggcacctgctg	W90894	96164	ccatgccaccgtggctacggaaaca	AA153032
10957	gagacatgtccaccggagttgtaca	M30903	53561	ccctcgctgaagcggcacctgctgt	W90894	96165	gccaccgtggctacggaaacagaat	AA153032
10958	aatgatatcatcactgagtgctggc	M30903	53562	cctcgctgaagcggcacctgctgtt	W90894	96166	acattgtcctgaaggagaagttcat	AA153032
10959	acctttgagttcctgcagtcggtgt	M30903	53563	tcgctgaagcggcacctgctgtttc	W90894	96167	cttaccatctcaaactatgttggct	AA153032
10960	ctgcagtcggtgttggaggacttct	M30903	53564	cgctgaagcggcacctgctgtttcc	W90894	96168	taccatctcaaactatgttggctgc	AA153032
10961	tacacagccacggagggccaatatg	M30903	53565	gctgaagcggcacctgctgtttccc	W90894	96169	ttcttcagtcccataaactgggatg	AA138663
10962	cagccctagcaaccaatggtctctt	M30903	53566	ctgaagcggcacctgctgtttcccc	W90894	96170	gatctgtaccacaagaggctgactc	AA138663
10963	tagcaaccaatggtctcttcagggc	M30903	53567	tggagaatcctccagttttttacag	W90894	96171	tccaagtccattggctgcacccctg	AA138663
10964	cagctgcgctgcaaagcgtggagcg	W54720	53568	cctttcggagctgtgcggcattctg	X59728	96172	attggctgcacccctgacaccgtgg	AA138663
10965	tatacatcgcaagattgagaggaag	W54720	53569	cagtgtggacctctgtgatgggaca	X59728	96173	cctgacaccgtggccagcagttctg	AA138663
10966	attgttgctgctgataactgcttta	W54720	53570	ttggctggcttgcttgggtacaaat	X59728	96174	gacaccgtggccagcagttctgggg	AA138663
10967	ttgctgctgataactgctttaccaa	W54720	53571	cgcatgggtcacctcaagtgaaggc	X59728	96175	accgtggccagcagttctggggctt	AA138663
10968	tgctgataactgctttaccaagtca	W54720	53572	ggtcacctcaagtgaaggcactgca	X59728	96176	agcagttctggggcttcaagtgcat	AA138663
10969	ctgataactgctttaccaagtcata	W54720	53573	cacctcaagtgaaggcactgcaaac	X59728	96177	gcattccttggattttcctatgcac	AA138663
10970	taactgctttaccaagtcatacaat	W54720	53574	tgaaggcactgcaaacacaatgatt	X59728	96178	ttccttggattttcctatgcacagg	AA138663
10971	actgctttaccaagtcatacaatga	W54720	53575	aggcactgcaaacacaatgattggt	X59728	96179	ttttcctatgcacaggatgatgatg	AA138663
10972	tgctttaccaagtcatacaatgagt	W54720	53576	cactgcaaacacaatgattggtcat	X59728	96180	tcctatgcacaggatgatgatgaca	AA138663
10973	ctttaccaagtcatacaatgagtgt	W54720	53577	tcattctgaatttccggtccttcat	X59728	96181	ctgtaccacaagaggctgactccac	AA138663
10974	accaagtcatacaatgagtgtttgg	W54720	53578	aaggctcctgtgacaagtggacatg	X59728	96182	gacattttggactcttgagagacgt	AA138663
10975	attttcatcttggaaaattgatcaa	W54720	53579	gcagtgactgcacctttgtttctga	X59728	96183	ggacctgctgacttgaaacactttg	AA138663
10976	tacatcgcaagattgagaggaagaa	W54720	53580	tgtggacctctgtgatgggacatct	X59728	96184	cctgctgacttgaaacactttgacc	AA138663
10977	agtcatgggccatgtggtcaagata	W54720	53581	tgatgggacatcttgtgggatctca	X59728	96185	ttgaaacactttgacccagagttca	AA138663
10978	tcatgggccatgtggtcaagatact	W54720	53582	atcttgtgggatctcacagccagtt	X59728	96186	ccagagttcacccaggaagctgtgt	AA138663
10979	tggtcaagatacttctctgggaatt	W54720	53583	gatctcacagccagttctgtggcaa	X59728	96187	gagttcacccaggaagctgtgtcca	AA138663
10980	gtcaagatacttctctgggaattgt	W54720	53584	ctcacagccagttctgtggcaaagg	X59728	96188	acccaggaagctgtgtccaagtcca	AA138663
10981	atacttctctgggaattgttgctgc	W54720	53585	ttaactggttgcatgcttgttcatt	X59728	96189	gaagctgtgtccaagtccattggct	AA138663
10982	acttctctgggaattgttgctgctg	W54720	53586	tgcatgcttgttcatttggctggct	X59728	96190	tcatctgtgatcacccacagatcat	W08610
10983	ttctctgggaattgttgctgctgat	W54720	53587	catttggctggcttgcttgggtaca	X59728	96191	atcacccacagatcatgagtccttt	W08610
10984	tgtgcaataactctgttctccttct	W54722	53588	gagtacaatggccgcacgggctaca	AA042076	96192	gctttgagctgtttgtcatgaagaa	W08610
10985	gcaataactctgttctccttctctc	W54722	53589	gtacaatggccgcacgggctacatg	AA042076	96193	gcaatgcctatactgagctgaatga	W08610
10986	ccccgagataacatcctgattgaat	W54722	53590	cggccgatacgagtcttctgatcac	AA042076	96194	atgcctatactgagctgaatgaccc	W08610
10987	cccagtttccactggactcgcaaca	W54722	53591	atacgagtcttctgatcacttcact	AA042076	96195	accccgtgcggcagaggcagctgtt	W08610
10988	agtttccactggactcgcaacagca	W54722	53592	cgccttgcggagtcaaggtgactcc	AA042076	96196	aggagcaggccaaggccaaggctgc	W08610
10989	tggactcgcaacagcaggttcttca	W54722	53593	ttcttgtctgagatgaaggtggaca	AA042076	96197	ccaaggccaaggctgccggtgatga	W08610
10990	actcgcaacagcaggttcttcaaca	W54722	53594	taatatcgtacccggacatcggagc	AA042076	96198	aggccaaggctgccggtgatgacga	W08610
10991	cgcaacagcaggttcttcaacattg	W54722	53595	cccggacatcggagcgtacactcat	AA042076	96199	acttctgtactgccctggaatacgg	W08610
10992	agcaggttcttcaacattgccaagg	W54722	53596	catcggagcgtacactcattcatcc	AA042076	96200	tctgtactgccctggaatacgggct	W08610
10993	ttcttcaacattgccaaggacccac	W54722	53597	tcggagcgtacactcattcatccct	AA042076	96201	gtactgccctggaatacgggctgcc	W08610
10994	gccaaggacccacgggtgtccatga	W54722	53598	agcgtacactcattcatccctgtgt	AA042076	96202	acccacagatcatgagtcctttggc	W08610
10995	gacccacgggtgtccatgaggagga	W54722	53599	ttcatccctgtgtgggactagtaat	AA042076	96203	atcggctcaccatgtttctcaccga	W08610
10996	aatgctaacccactggaactaacag	W54722	53600	aatggccgcacgggctacatgctca	AA042076	96204	cacagatcatgagtcctttggccaa	W08610
10997	aggtctgggaccttggtgatcgact	W54722	53601	cgcacgggctacatgctcaagcacg	AA042076	96205	tcatgagtcctttggccaaatggca	W08610
10998	gctaacccactggaactaacagcaa	W54722	53602	ctacatgctcaagcacgagtttata	AA042076	96206	tggccaaatggcaccgctccaaaga	W08610
10999	aacccactggaactaacagcaagca	W54722	53603	atgctcaagcacgagtttatactgc	AA042076	96207	ccaaatggcaccgctccaaagaggg	W08610
11000	ctaacagcaagcattcagaatgagc	W54722	53604	gagtttatactgcggccgatacgag	AA042076	96208	gctccaaagagggtctcacggagcg	W08610
11001	ccaacgatcaccaagcagtcggtga	W54722	53605	gtttatactgcggccgatacgagtc	AA042076	96209	tcacggagcgctttgagctgtttgt	W08610
11002	atcaccaagcagtcggtgaaggacc	W54722	53606	atactgcggccgatacgagtcttct	AA042076	96210	agcgctttgagctgtttgtcatgaa	W08610
11003	cacatcgtggacccccgagataaca	W54722	53607	actgcggccgatacgagtcttctga	AA042076	96211	gtaatagcgcatgcacacgaactct	AA138711
11004	gtggacccccgagataacatcctga	W54722	53608	actggacacacttaagacacatctg	X59846	96212	aatagcgcatgcacacgaactctcc	AA138711
11005	ttctctctagcttaattatgttgac	M23568	53609	cacacttaagacacatctgcaaggc	X59846	96213	atgcaggacgtctgcgacgatgagc	AA138711
11006	tctctagcttaattatgttgacacc	M23568	53610	ggcctcgtacaagcacagtgacatc	X59846	96214	gacgtctgcgacgatgagctagagc	AA138711
11007	tacgcgtccactgaagtgaggctga	M23568	53611	cccctagaccgagctgcaagagggc	X59846	96215	cgtctgcgacgatgagctagagctg	AA138711
11008	accattgagttttcttgtagcatga	M23568	53612	gtttggacacacagcactggctcct	X59846	96216	gacaaatatctcattctcagtgcca	AA138711
11009	ttttcttgtagcatgacccccttat	M23568	53613	ggctcctctcgcatggtcctgcaac	X59846	96217	aatatctcattctcagtgccaccca	AA138711
11010	tcttgtagcatgacccccttataaa	M23568	53614	atggtcctgcaacactggagcagcg	X59846	96218	tatctcattctcagtgccacccagg	AA138711
11011	tgtagcatgacccccttataaacac	M23568	53615	ctgcaacactggagcagcgtggacc	X59846	96219	tcattctcagtgccacccaggcaga	AA138711
11012	ttaaaaccatattcctgagccagta	M23568	53616	ttgccttgtaacatatctgtacata	X59846	96220	attctcagtgccacccaggcagaaa	AA138711
11013	aaaccatattcctgagccagtaatc	M23568	53617	caccggctgctcagagagagccacg	X59846	96221	tctcagtgccacccaggcagaaagc	AA138711
11014	ccatattcctgagccagtaatcagc	M23568	53618	agtttgcagcagaacggatgtgaag	X59846	96222	tcagtgccacccaggcagaaagcag	AA138711
11015	tcctgagccagtaatcagcaatttt	M23568	53619	tctttctgactctaaaatatggaaa	X59846	96223	tgtggactactagagcgtggtaggt	AA138711
11016	tatcttgtctttgggaattaggatt	M23568	53620	taagacacatctgcaaggctctgtg	X59846	96224	agtgccacccaggcagaaagcagag	AA138711

TABLE 1

SEQ ID NO	sequence	DBAxnID
11017	taattatgttgacacctcagcctcc	M23568
11018	ttatgttgacacctcagcctccact	M23568
11019	ctcagcctccacttctgcttgatat	M23568
11020	agcctccacttctgcttgatatacg	M23568
11021	cacttctgcttgatatacgcgtcca	M23568
11022	ttctgcttgatatacgcgtccactg	M23568
11023	tgcttgatatacgcgtccactgaag	M23568
11024	atatacgcgtccactgaagtgaggc	M23568
11025	cacacaagtgtatatcctttcacac	X70887
11026	ttcacacgtacatcagaatgttaat	X70887
11027	ctgataacgccctctggtatcacag	X70887
11028	atcacagtgatcacctctagacagc	X70887
11029	gtgatcacctctagacagcccctac	X70887
11030	ctcctctcagtttcctcatccaggt	X70887
11031	ctcagcctctttaatgcacgctgaa	X70887
11032	ctctttaatgcacgctgaaggtcca	X70887
11033	aatgcacgctgaaggtccaggcaca	X70887
11034	aggtccaggcacacctcaagtcctg	X70887
11035	aggcacacctcaagtcctgtgcttg	X70887
11036	acctcaagtcctgtgcttgagcaat	X70887
11037	ttgctccctctgttagctccatttt	X70887
11038	ttagctccattttcacgtggtagaa	X70887
11039	tgtggttttccaagcctgtgtctcc	X70887
11040	agcctgtgtctccgtgcaggtgcta	X70887
11041	atgggtacaccgctgttgcatccat	X70887
11042	ctgttgcatccattgcctctcttac	X70887
11043	tctcctgagttggtattcctgataa	X70887
11044	gtattcctgataacgccctctggta	X70887
11045	atttacctgtgacaggtacttcaca	J03520
11046	atgaaggtctggctttggaataaat	J03520
11047	tatagttacacagggccacagggcc	J03520
11048	gtatctggccgaatcacagcaccat	J03520
11049	ggccgaatcacagcaccataaaatc	J03520
11050	atcacagcaccataaaatccttgag	J03520
11051	gcaccataaaatccttgagatcatg	J03520
11052	cactcctcaactcttgggacatatc	J03520
11053	tcaactcttgggacatatcccttgt	J03520
11054	cttgggacatatcccttgtatacag	J03520
11055	acatatcccttgtatacagtgtaaa	J03520
11056	actctatagatggttgggagaactg	J03520
11057	gccctcctggtccactatgttgtac	J03520
11058	ctggtccactatgttgtacactgaa	J03520
11059	gttgtacactgaaccacaagatcat	J03520
11060	cactgaaccacaagatcatgtctca	J03520
11061	accacaagatcatgtctcaacagca	J03520
11062	agatcatgtctcaacagcaaaaaat	J03520
11063	tacaacttgatctttcaggagtgaa	J03520
11064	aagtttgcactggggacaagaatgt	J03520
11065	aagacttcagcaggctgtaaacatg	M25533
11066	attcattaacatgcccagtgtgcag	M25533
11067	ttacatcaacatcaaccgactttat	M25533
11068	caaccgactttatagcgcctgccag	M25533
11069	tagcgcctgccaggatgaagcttga	M25533
11070	agcttgacatctacatgtgtcttct	M25533
11071	acatctacatgtgtcttctgtcttc	M25533
11072	tgtcttcttacttaaacacagataa	M25533
11073	cttacttaaacacagataatcactt	M25533
11074	taaacacagataatcacttctttca	M25533
11075	cagataatcacttctttcaataaag	M25533
11076	atcacttctttcaataaagaactca	M25533
11077	tcacatcccaaatgacaaggcttct	M25533
11078	tgacaaggcttctttccttcctaga	M25533
11079	ggcttctttccttcctagattcata	M25533
11080	attcatacattaatatctttcagaa	M25533
11081	atatctttcagaacagccatttaaa	M25533
11082	gttgcaccatatcaggtcattcacc	M25533
11083	ccatatcaggtcattcacctctgga	M25533
11084	tcctaaattaacctgcaatggaaga	M25533
53621	ctctgtgcacacctatgttggaggc	X59846
53622	gcacacctatgttggaggcctgcca	X59846
53623	tggaggcctgccagaagtatcggtg	X59846
53624	atcggtgatttctgcacccgtcact	X59846
53625	tgcgttctaccgcggatgcatgact	X59846
53626	aatcctggacctggatacggcctcg	X59846
53627	ggacctggatacggcctcgtacaag	X59846
53628	ggagtctccaagtgtgcgaagagtt	X55123
53629	ttttcgcaggagcagtatcatgaag	X55123
53630	cggatcccatttgtgaataagccat	X55123
53631	aagccattcagactcatattcccta	X55123
53632	ttcagactcatattccctatttaac	X55123
53633	atttaacagggtctctagtgctgtg	X55123
53634	cagggtctctagtgctgtgaaaaaa	X55123
53635	ctttattgtacctggatagctgtaa	X55123
53636	tgtacctggatagctgtaagaaagg	X55123
53637	gaaaccactaagtctgatgtccaaa	X55123
53638	gtccaaatgggcacactgtcagttt	X55123
53639	cccttcagttgtttgatgcatttaa	X55123
53640	cagtatcatgaagcccgaaagcgac	X55123
53641	catgaagcccgaaagcgacagatct	X55123
53642	caaaggagctcgaggtggtgtctgc	X55123
53643	agctcgaggtggtgtctgcattcca	X55123
53644	tgtctgcattccaaccactgaatcc	X55123
53645	cattccaaccactgaatccggatcc	X55123
53646	aaccactgaatccggatcccatttg	X55123
53647	tgaatccggatcccatttgtgaata	X55123
53648	tcttagcaccacagtgtctgggcat	Z36270
53649	caccacagtgtctgggcatctggga	Z36270
53650	tcatcgctgacctgtatccccgcaa	Z36270
53651	ctgacctgtatccccgcaagagcaa	Z36270
53652	tgtatccccgcaagagcaatgactt	Z36270
53653	atgacttttgctaacagtatttctt	Z36270
53654	ctatcaaaatccacagtgaaaacct	Z36270
53655	taaactatttccatatctcagaggt	Z36270
53656	atttccatatctcagaggtttctga	Z36270
53657	atatctcagaggtttctgacatgca	Z36270
53658	tttctgacatgcaaacttgaaccct	Z36270
53659	acatgcaaacttgaacccttgaaag	Z36270
53660	agtgtctgggcatctgggaaactcc	Z36270
53661	atgtgatcacacacctgcagtttgg	Z36270
53662	tcacacacctgcagtttggggcatc	Z36270
53663	acctgcagtttggggcatcgaatcc	Z36270
53664	cgaatccagggccttgcatgtcttc	Z36270
53665	cagggccttgcatgtcttctgtaag	Z36270
53666	cttgcatgtcttctgtaagagctct	Z36270
53667	ctgtaagagctctcatcgctgacct	Z36270
53668	gcttctctcctcagttcctaaggaa	X04435
53669	aaactccagtcagaattggcagcgg	X04435
53670	gaaatgactgccttactaagaaagg	X04435
53671	tttactgtacaaacttatcaacttg	X04435
53672	gtacaaacttatcaacttgtcttgt	X04435
53673	caacttgtcttgtagatgttttgtc	X04435
53674	ttttctatacgcactacatgtggtc	X04435
53675	actacatgtggtctctagagggcca	X04435
53676	ctctagagggccaagacttggcaac	X04435
53677	cagatgagccatcacttttcagtga	X04435
53678	agccatcacttttcagtgacaggaa	X04435
53679	cacttttcagtgacaggaaagcaga	X04435
53680	ggactccatgcatgatgtggttgaa	X04435
53681	aaatctccttagctactgcttccaa	X04435
53682	ccttagctactgcttccaaacattt	X04435
53683	ctactgcttccaaacatttttggat	X04435
53684	tattgaattcccagagatgttagct	X04435
53685	tgaaatcatcactaatcagatacca	X04435
53686	aaagcttctgtttcatcagaaatga	X04435
53687	tcatcagaaatgactgccttactaa	X04435
53688	tgagacacctcggcttctcccttgc	AA041873
96225	ctactagagcgtggtaggtgcccga	AA138711
96226	tctccagcatcgaacacaaaaccga	AA138711
96227	tccagcatcgaacacaaaaccgaga	AA138711
96228	cagcatcgaacacaaaaccgagagg	AA138711
96229	gcatcgaacacaaaaccgagaggac	AA138711
96230	cacaaaaccgagaggactgacaaga	AA138711
96231	cgatgcaggacgtctgcgacgatga	AA138711
96232	tgcatggctacacagccacgtatct	U13705
96233	cagccacgtatctgcctgcttgaaa	U13705
96234	tccttcctgaaggaccctcctgagc	U13705
96235	cctgagaccagccaagacaactgtg	U13705
96236	accagccaagacaactgtgagcgcg	U13705
96237	caagacaactgtgagcgcgatggcc	U13705
96238	aactgtgagcgcgatggccgtgtac	U13705
96239	cccctgagcccgtctgtggtgccag	U13705
96240	agcccgtctgtggtgccagcccttа	U13705
96241	gcccttagtgcattcaggcttaggc	U13705
96242	agtgcattcaggcttaggctcccag	U13705
96243	ttcaggcttaggctcccaggcaggg	U13705
96244	cgtatctgcctgcttgaaacccagg	U13705
96245	cttgaaacccagggatggtccatct	U13705
96246	acccagggatggtccatctgtgttt	U13705
96247	tacggcttggcacaacaccctcata	U13705
96248	tttctgttccaaatgagcccaaagg	U13705
96249	ctcaaacctgaacatcattcttggg	U13705
96250	cctgaacatcattcttggggccagc	U13705
96251	catcattcttggggccagcatctcc	U13705
96252	ggactgtaactacccctgtggctca	AA117895
96253	taactacccctgtggctcatcacca	AA117895
96254	gctgtcacagaacctcaggtggcag	AA117895
96255	tgtcacagaacctcaggtggcagaa	AA117895
96256	tcacagaacctcaggtggcagaaga	AA117895
96257	agaacctcaggtggcagaagagaaa	AA117895
96258	aacctcaggtggcagaagagaaaat	AA117895
96259	gatttgctgaccaaggagctggagg	AA117895
96260	tttgctgaccaaggagctggaggac	AA117895
96261	tgctgaccaaggagctggaggactt	AA117895
96262	ctgaccaaggagctggaggactttg	AA117895
96263	gctgctgctcgagctgtcaccggtg	AA117895
96264	actaccccctgtggctcatcaccatg	AA117895
96265	ccatgccttccgacctggccaagaa	AA117895
96266	atgccttccgacctggccaagaaga	AA117895
96267	cgacctggccaagaagaaggcagcc	AA117895
96268	caaagcccgacagcgacccagaaag	AA117895
96269	ccgacagcgacccagaaagggacat	AA117895
96270	gacagcgacccagaaagggacatga	AA117895
96271	atgctgtcacagaacctcaggtggc	AA117895
96272	tctcatagccgacattgtgtcagga	AA138787
96273	agaagtatttccgtgtgtgcagagt	AA138787
96274	acatcgttaagctagcggcctgcca	AA138787
96275	tcgttaagctagcggcctgccaatt	AA138787
96276	agctagcggcctgccaatttgtaag	AA138787
96277	tagcggcctgccaatttgtaagact	AA138787
96278	ttgtaagactgctacttcttcgatc	AA138787
96279	gactgctacttcttcgatcactccc	AA138787
96280	tgctacttcttcgatcactccctca	AA138787
96281	ctcactctcgtgcatgccatctaag	AA138787
96282	actctcgtgcatgccatctaaggga	AA138787
96283	ctcgtgcatgccatctaagggatga	AA138787
96284	atttccgtgtgtgcagagtttgagg	AA138787
96285	tttgaggcctgcatttgtgagtcgg	AA138787
96286	gaggctgacacgtgccctgatggga	AA138787
96287	acgtgccctgatgggatctgtctta	AA138787
96288	tgccctgatgggatctgtcttagct	AA138787
96289	atctgtcttagcttaaaccgacact	AA138787
96290	gtgtgacctacatcgttaagctagc	AA138787
96291	cctacatcgttaagctagcggcctg	AA138787
96292	cctgaacttccggacactacagagc	AA138791

TABLE 1

SEQ ID NO	sequence	DBAxnID
11085	tgactccaggatatgtgcccactga	M25513
11086	caggatatgtgcccactgagcagga	M25513
11087	tcgccacaacgtctatcgtgctctt	M25513
11088	caacgtctatcgtgctcttcctcaa	M25513
11089	tcagcatctgcttccccgactacga	M25513
11090	actacatcaaagtgcagttcctgga	M25513
11091	tcaaagtgcagttcctggagcttaa	M25513
11092	tgcagttcctggagcttaacatgcg	M25513
11093	agcttaacatgcgacgtgatgtgaa	M25513
11094	acatgcgacgtgatgtgaaggagat	M25513
11095	tctattcccacatgacgtgcgctac	M25513
11096	tcaccgacattatcatcaaggagaa	M25513
11097	ccactgagcaggacgtgttgcgttc	M25513
11098	cctcaaagactgcgggctcttctga	M25513
11099	tcgagactcaattctccttcaagga	M25513
11100	actgctttgagggtgtgacgtgcat	M25513
11101	cgtgcatcattttcatcgctgcgct	M25513
11102	tcattttcatcgctgcgctgagcgc	M25513
11103	tgcacgagagccttcacctgttcaa	M25513
11104	agagccttcacctgttcaacagcat	M25513
11105	tctgcaatcatcgctacttcgccac	M25513
11106	acgagcgcctggccggtgatcttct	W55014
11107	ccggtgatcttctagagtggatccg	W55014
11108	ttccgagactataggcgtgtgcaca	W55014
11109	accctgcagaccaagctgcggctga	W55014
11110	cagaccaagctgcggctgagcaacc	W55014
11111	accaagctgcggctgagcaacctgg	W55014
11112	aagctgcggctgagcaacctggctg	W55014
11113	cggctgagcaacctggctgccttca	W55014
11114	ctgagcaacctggctgccttcatgc	W55014
11115	agcaacctggctgccttcatgccct	W55014
11116	gctgccttcatgccctccgagggca	W55014
11117	actggtctcggacatcaacaatggg	W55014
11118	ttctagagtggatccggcgcaccat	W55014
11119	ctcggacatcaacaatgggtggcaa	W55014
11120	aagaccgtgtgcctcagaagaccat	W55014
11121	accgtgtgcctcagaagaccatcca	W55014
11122	gtgtgcctcagaagaccatccagga	W55014
11123	ctcagaagaccatccaggagatgca	W55014
11124	agctggcaggacttccgagactata	W55014
11125	caggacttccgagactataggcgtg	W55014
11126	gacttccgagactataggcgtgtgc	W55014
11127	agaacctgcaaggatgctgtcccgt	W55020
11128	aacctgcaaggatgctgtcccgtgc	W55020
11129	cgacgatgtccctccattctcgacg	W55020
11130	cattctcgacgagccgatccctcga	W55020
11131	attctcgacgagccgatccctcgag	W55020
11132	tctcgacgagccgatccctcgagct	W55020
11133	ctcgacgagccgatccctcgagctg	W55020
11134	acgagccgatccctcgagctgatac	W55020
11135	cgagccgatccctcgagctgatact	W55020
11136	gccgatccctcgagctgatacttcc	W55020
11137	ccgatccctcgagctgatacttccg	W55020
11138	cgatccctcgagctgatacttccgt	W55020
11139	tgcaaggatgctgtcccgtgcgatc	W55020
11140	aggatgctgtcccgtgcgatcgccg	W55020
11141	gtacaagaaatctcatccctctaac	W55020
11142	gacctcagaagactggcactgcgac	W55020
11143	ctcagaagactggcactgcgacgat	W55020
11144	tggcactgcgacgatgtccctccat	W55020
11145	ggcactgcgacgatgtccctccatt	W55020
11146	gcactgcgacgatgtccctccattc	W55020
11147	tctggtctctgagaagcagtcagag	M36386
11148	ccaggcccttgccagtaggttagtg	M36386
11149	ttctccttgagaaacaatgacaaga	M36386
11150	ctcttattttcttctacagttgcaa	M36386
11151	tcttctacagttgcaaagcccagaa	M36386
11152	tctacagttgcaaagcccagaagaa	M36386

SEQ ID NO	sequence	DBAxnID
53689	gcttctcccttgcttgccaaagagg	AA041873
53690	acctgtcagcaaacatgggagaaac	AA041873
53691	aaactacatgcagcgaccaccaaga	AA041873
53692	ctacatgcagcgaccaccaagaaca	AA041873
53693	gcgaccaccaagaacaataatcttg	AA041873
53694	accaccaagaacaataatcttgccg	AA041873
53695	aatcttgccgtctcttccaagttca	AA041873
53696	cttgccgtctcttccaagttcaaca	AA041873
53697	gccgtctcttccaagttcaacattc	AA041873
53698	tccaagttcaacattcctgacctaa	AA041873
53699	ttcaacattcctgacctaaaggttg	AA041873
53700	tctcccttgcttgccaaagaggtaa	AA041873
53701	aaggttggcacgttggatgtcttgg	AA041873
53702	aacatgactgagttctggctcatat	AA041873
53703	atgactgagttctggctcatatctg	AA041873
53704	actgagttctggctcatatctgctc	AA041873
53705	gagttctggctcatatctgctcctg	AA041873
53706	tggctcatatctgctcctggggaga	AA041873
53707	atatctgctcctggggagaaaacct	AA041873
53708	tctgctcctggggagaaaacctgtc	AA041873
53709	gccaccatggaagctccctgggccg	AA041880
53710	ggcacctaagccgctgcctggcgtc	AA041880
53711	gcgacactgcgattccatcaactcg	AA041880
53712	acactgcgattccatcaactcggac	AA041880
53713	cactgcgattccatcaactcggact	AA041880
53714	ctgcgattccatcaactcggacttc	AA041880
53715	tgcgattccatcaactcggacttcg	AA041880
53716	cgattccatcaactcggacttcgga	AA041880
53717	ttccatcaactcggacttcggaagc	AA041880
53718	tccatcaactcggacttcggaagcg	AA041880
53719	catcaactcggacttcggaagcgag	AA041880
53720	atcaactcggacttcggaagcgagt	AA041880
53721	cacctaagccgctgcctggcgtctg	AA041880
53722	acctaagccgctgcctggcgtctga	AA041880
53723	cgtctgaggccattgaggcgctaag	AA041880
53724	tctgaggccattgaggcgctaagcg	AA041880
53725	ccattgaggcgctaagcggccggcc	AA041880
53726	tacgagcgacactgcgattccatca	AA041880
53727	cgagcgacactgcgattccatcaac	AA041880
53728	gagcgacactgcgattccatcaact	AA041880
53729	ggcatcataccagctataaaatgtc	X78987
53730	caactatggcagcacctccacttct	X78987
53731	aacagaagtttgcctcatggtgagg	X78987
53732	agtttgcctcatggtgaggtacata	X78987
53733	tgattgatgcactcttgtagtctgg	X78987
53734	atgcactcttgtagtctggtacaca	X78987
53735	gtacacagagttgcctggagccaac	X78987
53736	agagttgcctggagccaactgacca	X78987
53737	gcctggagccaactgaccagacagt	X78987
53738	ttggttccaccagctctgcatcaag	X78987
53739	ccaccagctctgcatcaagagactt	X78987
53740	catcaagagacttccgtggcaagac	X78987
53741	cacttctggtagccatgcccacgct	X78987
53742	ccatgcccacgctgtgtcaaatgtc	X78987
53743	ccacgctgtgtcaaatgtcactcag	X78987
53744	tgtgtcaaatgtcactcagactggc	X78987
53745	ctttaaagcataactctgatgggct	X78987
53746	agcataactctgatgggctttgtca	X78987
53747	tcctgatgcactttgggaagttgaa	X78987
53748	atcaattgatcttcgaactgtgaag	X78987
53749	ctaccaaagacacactcaggcttta	X71642
53750	aagacacactcaggctttagtaaat	X71642
53751	agactaacctcatagtggtcaagta	X71642
53752	accattatggtgctactgagcattt	X71642
53753	cgctgcatccattaatctgcttaga	X71642
53754	atccattaatctgcttagagaacac	X71642
53755	agaacactagtgccagctcttttag	X71642
53756	ccagctcttttagctgatactgctc	X71642

SEQ ID NO	sequence	DBAxnID
96293	gaacttccggacactacagagcatt	AA138791
96294	ctgtctcgtgacttagcagcattgc	AA138791
96295	tctcgtgacttagcagcattgcatg	AA138791
96296	gacttagcagcattgcatgagattt	AA138791
96297	tgtgtagctcattcagatgaactga	AA138791
96298	ctgagaacactcagcaatgagcgtg	AA138791
96299	agaacactcagcaatgagcgtggtg	AA138791
96300	acactcagcaatgagcgtggtgtac	AA138791
96301	ctcagcaatgagcgtggtgtacagc	AA138791
96302	gtacagcagcacgtactgaaaaagc	AA138791
96303	aagcttctggcgataacagaactgc	AA138791
96304	cttccggacactacagagcattcta	AA138791
96305	ccggacactacagagcattctagaa	AA138791
96306	gacactacagagcattctagaactg	AA138791
96307	cattctagaactgacctgtctcgtg	AA138791
96308	tctagaactgacctgtctcgtgact	AA138791
96309	agaactgacctgtctcgtgacttag	AA138791
96310	actgacctgtctcgtgacttagcag	AA138791
96311	gacctgtctcgtgacttagcagcat	AA138791
96312	cttgaagaaatctctctctgccatg	AA142376
96313	ttgaagaaatctctctctgccatgg	AA142376
96314	ccagactgcacccaacaaggacgtg	AA142376
96315	gactgcacccaacaaggacgtgcag	AA142376
96316	actgcacccaacaaggacgtgcaga	AA142376
96317	gcacccaacaaggacgtgcagaggg	AA142376
96318	caacaaggacgtgcagagggaaatt	AA142376
96319	ggaaattgctgacctcggtgaggcc	AA142376
96320	tgacctcggtgaggccctggccact	AA142376
96321	atcccccagtggcagaaagatgaac	AA142376
96322	cccccagtggcagaaagatgaacaa	AA142376
96323	agagactctgaagtccctgaagaaa	AA142376
96324	gaaatctctctctgccatggaggcc	AA142376
96325	aaatctctctctgccatggaggcca	AA142376
96326	atctctctctgccatggaggccaaa	AA142376
96327	tctctctctgccatggaggccaaag	AA142376
96328	gaaggcccagactgcacccaacaag	AA142376
96329	aaggcccagactgcacccaacaagg	AA142376
96330	ggcccagactgcacccaacaaggac	AA142376
96331	gcccagactgcacccaacaaggacg	AA142376
96332	agctcatcatcgaggatgcctctta	AA138813
96333	tcatcatcgaggatgcctcttattg	AA138813
96334	tcgacatcatgtatcagcaatgcct	AA138813
96335	acatcatgtatcagcaatgccttat	AA138813
96336	tcatgtatcagcaatgccttatgtg	AA138813
96337	tgtatcagcaatgccttatgtgctg	AA138813
96338	agcaatgccttatgtgctgcaatgc	AA138813
96339	aatgccttatgtgctgcaatgcctt	AA138813
96340	gccttatgtgctgcaatgccttcct	AA138813
96341	ttatgtgctgcaatgccttcctgca	AA138813
96342	tgtgctgcaatgccttcctgcagaa	AA138813
96343	gctgcaatgccttcctgcagaatac	AA138813
96344	atgcctcttattgcaatgactctga	AA138813
96345	ctgcaatgccttcctgcagaatact	AA138813
96346	cctcttattgcaatgactctgactt	AA138813
96347	cttattgcaatgactctgacttcga	AA138813
96348	attgcaatgactctgacttcgacat	AA138813
96349	gcaatgactctgacttcgacatcat	AA138813
96350	atgactctgacttcgacatcatgta	AA138813
96351	ctgacttcgacatcatgtatcagca	AA138813
96352	acttcgacatcatgtatcagcaatg	AA138813
96353	tggcagctaaacgctcccgggatgc	AA138848
96354	ggcagctaaacgctcccgggatgcc	AA138848
96355	agaccatcgtgtccaagtacgagac	AA138848
96356	gaccatcgtgtccaagtacgagacc	AA138848
96357	accatcgtgtccaagtacgagacca	AA138848
96358	ccatcgtgtccaagtacgagaccaa	AA138848
96359	catcgtgtccaagtacgagaccaag	AA138848
96360	atcgtgtccaagtacgagaccaagt	AA138848

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11153	acagttgcaaagcccagaagaaaga	M36386	53757	cttttagctgatactgctcattatg	X71642	96361	tgtccaagtacgagaccaagtacgg	AA138848
11154	aagatgtcaccaacagacttctgac	M36386	53758	gctgatactgctcattatggtattt	X71642	96362	ctcagacctctgcctggggcttcct	AA138848
11155	atgtcaccaacagacttctgactgc	M36386	53759	actgctcattatggtatttgtacat	X71642	96363	tcagacctctgcctggggcttcctg	AA138848
11156	tcaccaacagacttctgactgcatg	M36386	53760	tgcattccaattttgttcagtaatg	X71642	96364	cagacctctgcctggggcttcctgg	AA138848
11157	gacttctgactgcatggtgaacttt	M36386	53761	ttaacatgtatatctttttgaacca	X71642	96365	gcagctaaacgctcccgggatgcca	AA138848
11158	ttctgactgcatggtgaactttcat	M36386	53762	tcaaaacaatgcagagcttgtacca	X71642	96366	cagctaaacgctcccgggatgccag	AA138848
11159	ccttgccagtaggttagtgaggttg	M36386	53763	gttcagctgacacgagcagaagttg	X71642	96367	catccgggcagcgttcctggagaag	AA138848
11160	ttatggacactctccaaatcataaa	M36386	53764	ggccaaaatactgcctgcactattg	X71642	96368	agcgttcctggagaaggagaacaca	AA138848
11161	ctctccaaatcataaatactctaac	M36386	53765	aatactgcctgcactattgacttcc	X71642	96369	ctgcggacggaggttgccgagcttc	AA138848
11162	tccaaatcataaatactctaacagc	M36386	53766	actattgacttcccacacagctctc	X71642	96370	aagtgcaagaccatcgtgtccaagt	AA138848
11163	tcataaatactctaacagctaagga	M36386	53767	agctctcccggcagactaacctcat	X71642	96371	agtgcaagaccatcgtgtccaagta	AA138848
11164	atactctaacagctaaggatctctg	M36386	53768	cccggcagactaacctcatagtggt	X71642	96372	gtgcaagaccatcgtgtccaagtac	AA138848
11165	taacagctaaggatctctgagggaa	M36386	53769	tttcctggacctctgctgggatcgc	X15763	96373	caattccacatccaaggtgataccc	W08624
11166	cagctaaggatctctgagggaaaca	M36386	53770	ggacctctgctgggatcgcctacaa	X15763	96374	ttccacatccaaggtgataccccg	W08624
11167	agccctatgcatgtgactcatcgcg	W55021	53771	acctcccgagtactgagattcaggc	X15763	96375	gacattggcccgtagctggccgaga	W08624
11168	ccctatgcatgtgactcatcgcggt	W55021	53772	gtattgctatgcctgacattttcct	X15763	96376	attggcccgtagctggccgagaagt	W08624
11169	aatacatacctggagagaagcccta	W55021	53773	ttgctatgcctgacattttccttcc	X15763	96377	ggcccgtagctggccgagaagtcat	W08624
11170	gagagaagccctatgacgtgtggtt	W55021	53774	tcctcttagagccactggcctttac	X15763	96378	ccgtagctggccgagaagtcatgcc	W08624
11171	gagaagccctatgacgtgtggttgg	W55021	53775	tcttagagccactggcctttacagc	X15763	96379	tagctggccgagaagtcatgccgaa	W08624
11172	agccctatgacgtgtggttggtgtg	W55021	53776	tagagccactggcctttacagccca	X15763	96380	aggaaagccttacttatgtgtgagg	W08624
11173	taaagcctttatacgttgtagtcat	W55021	53777	aaaccacctggagacatgcgctggt	X15763	96381	aaagccttacttatgtgtgaggcct	W08624
11174	gcctttatacgttgtagtcatctcc	W55021	53778	cctggagacatgcgctggtatttgg	X15763	96382	ttacttatgtgtgaggcctgcagag	W08624
11175	atacgttgtagtcatctccaagtac	W55021	53779	gacatgcgctggtatttggttaaat	X15763	96383	agagtgcagcaatacccttttacgg	W08624
11176	gttgtagtcatctccaagtacataa	W55021	53780	taaatgtcagtgtcaagtggagcat	X15763	96384	gtgcagcaatacccttttacggaag	W08624
11177	tgtagtcatctccaagtacataaga	W55021	53781	ccactcagttcttgaaggtacacag	X15763	96385	aagcaggtgcctggcagttcgtgtg	W08624
11178	atgtatgtgatcggtgtggtaaaga	W55021	53782	acagaatagccttgaccttgtggca	X15763	96386	tcgtgtgcctgctcccagcatcgaa	W08624
11179	gtgactcatcgcggtaaagcctttg	W55021	53783	tagccttgaccttgtggcagaggag	X15763	96387	tgtgcctgctcccagcatcgaagat	W08624
11180	ctcatcgcggtaaagcctttgcatc	W55021	53784	ccttgaccttgtggcagaggagacc	X15763	96388	cagtgtactatccactgtctgcagg	W08624
11181	taaagcctttgcatctcatagttat	W55021	53785	tgaccttgtggcagaggagaccccc	X15763	96389	tgtactatccactgtctgcaggaag	W08624
11182	aagcctttgcatctcatagttatct	W55021	53786	caggatcttctgtagctatgtagct	X15763	96390	atccactgtctgcaggaaggaaggt	W08624
11183	gcctttgcatctcatagttatctcc	W55021	53787	gatcttctgtagctatgtagctatg	X15763	96391	cactgtctgcaggaaggaaggtctg	W08624
11184	ctttgcatctcatagttatctccaa	W55021	53788	tctacctcccgagtactgagattca	X15763	96392	aggtctggctctcccttcgacattg	W08624
11185	gcatctcatagttatctccaagtac	W55021	53789	caaagacaccagctttggtatttga	AA116848	96393	tcttatcccaggttcctgaaatcaa	AA138863
11186	atctcatagttatctccaagtacat	W55021	53790	caccagctttggtatttgaataact	AA116848	96394	ttatcccaggttcctgaaatcaaat	AA138863
11187	agtgggtcttctcgcatcttccgct	W55027	53791	actatctgattggggtctggcagag	AA116848	96395	atgagactgcctgccagaccaacct	AA138863
11188	gggtcttctcgcatcttccgctttg	W55027	53792	gttctatcatcctgctcaggagtac	AA116848	96396	gagactgcctgccagaccaacctgg	AA138863
11189	cgagtacgcttcaggctcgcacaag	W55027	53793	tcctgctcaggagtacaatgttcga	AA116848	96397	ctgccagaccaacctggcctacttg	AA138863
11190	agtacgcttcaggctcgcacaagtg	W55027	53794	caatgttcgagtggcctcgaggtac	AA116848	96398	gccagaccaacctggcctacttggg	AA138863
11191	gtacgcttcaggctcgcacaagtgt	W55027	53795	gtacttcaagggaccagagctcctt	AA116848	96399	cagaccaacctggcctacttgggtg	AA138863
11192	acgcttcaggctcgcacaagtgtac	W55027	53796	caagggaccagagctccttgtggac	AA116848	96400	ctacttgggtggctcaggaggccca	AA138863
11193	gcttcaggctcgcacaagtgtactt	W55027	53797	gctccttgtggactatcagatgtat	AA116848	96401	ctcaggaggcccagtggaagtacag	AA138863
11194	cttcaggctcgcacaagtgtacttt	W55027	53798	cttggacatgtggagcttgggctgc	AA116848	96402	gattaacacaaggtatccaggtaga	AA138863
11195	ttcaggctcgcacaagtgtactttc	W55027	53799	gagcttgggctgcatgttagcgagc	AA116848	96403	ttaacacaaggtatccaggtagaga	AA138863
11196	tcaggctcgcacaagtgtactttcg	W55027	53800	cttgggctgcatgttagcgagcatg	AA116848	96404	aacacaaggtatccaggtagagact	AA138863
11197	caggctcgcacaagtgtactttcga	W55027	53801	attttaagcaactctaccagatcct	AA116848	96405	taaatcttctaaatgaccttcaggc	AA138863
11198	tcgcacaagtgtactttcgatgaac	W55027	53802	ttaagcaactctaccagatcctgac	AA116848	96406	aatcttctaaatgaccttcaggcaa	AA138863
11199	gtcttctcgcatcttccgctttgct	W55027	53803	tctaccagatcctgacagcatcttt	AA116848	96407	ttctaaatgaccttcaggcaaatac	AA138863
11200	cgcacaagtgtactttcgatgaacc	W55027	53804	accagatcctgacagcatctttgat	AA116848	96408	ctaaatgaccttcaggcaaatactt	AA138863
11201	tcttctcgcatcttccgctttgcta	W55027	53805	cagcatctttgatatccggttttat	AA116848	96409	tgagtgattcctggctgacaggaat	AA138863
11202	ttctcgcatcttccgctttgctacg	W55027	53806	catctttgatatccggttttatatg	AA116848	96410	tgattcctggctgacaggaattaaa	AA138863
11203	tctcgcatcttccgctttgctacgt	W55027	53807	acttaaactccgactatctgattgg	AA116848	96411	acatgccaatgagactgcctgccag	AA138863
11204	tgaattcgagtacgcttcaggctcg	W55027	53808	ccgactatctgattggggtctggca	AA116848	96412	atgccaatgagactgcctgccagac	AA138863
11205	gaattcgagtacgcttcaggctcgc	W55027	53809	tacctcacagtctccattggacctc	X65603	96413	atagtcacagtatctgaccatgaac	AA138866
11206	attcgagtacgcttcaggctcgcac	W55027	53810	ggacctcagccaggaccagcctctg	X65603	96414	catgaacttctggcagctaaacact	AA138866
11207	tcgagtacgcttcaggctcgcacaa	W55027	53811	gcctagggctttcatcttgccttgc	X65603	96415	gtcagcagactgcatcaggttccac	AA138866
11208	caatctgccttctccaggtggttcc	M94087	53812	gtcccatctgcagcctcaccaggtg	X65603	96416	agactgcatcaggttccacgctctc	AA138866
11209	tctctggccaaggagatccagtatc	M94087	53813	gggcttgtagcctctattatgcaaa	X65603	96417	catcaggttccacgctctccctgag	AA138866
11210	tgctttgtgcttgtacatagtcttg	M94087	53814	gtagcctctattatgcaaatattcg	X65603	96418	cgctctccctgagggcaggctaaag	AA138866
11211	ttgtacatagtcttgtgttgctgtg	M94087	53815	atattcgtagctcagctttcagagc	X65603	96419	gctaaagctttgacacaccaggtgg	AA138866
11212	acatagtcttgtgttgctgtgtttg	M94087	53816	gtagctcagctttcagagcgctaac	X65603	96420	gctttgacacaccaggtggatgaga	AA138866
11213	catagtcttgtgttgctgtgtttgc	M94087	53817	tcagagcgctaactctaaaggaatt	X65603	96421	acacaccaggtggatgagagtggct	AA138866
11214	tgtgttgctgtgtttgctgtaataa	M94087	53818	aggaattcacctgagccttgagaga	X65603	96422	agtggcttcgagctctcatctaggc	AA138866
11215	gtgttgctgtgtttgctgtaataaa	M94087	53819	acatactccaaggtgacctcacatt	X65603	96423	ctctcatctaggcctagtgcaggct	AA138866
11216	tgttgctgtgtttgctgtaataaat	M94087	53820	gtgacctcacatttgactatcaaat	X65603	96424	cctagtgcaggctctcagaccaggc	AA138866
11217	ctctggccaaggagatccagtatct	M94087	53821	tgacacttttgttctcagcttctgc	X65603	96425	cttctggcagctaaacactcatcat	AA138866
11218	tctggccaaggagatccagtatctg	M94087	53822	tctcagcttctgccatctgtgacta	X65603	96426	gcaggctctcagaccaggcaggctt	AA138866
11219	tagtcaggtgctttgtgcttgtaca	M94087	53823	ccatctgtgactactgatatcctgg	X65603	96427	gcagctaaacactcatcattcgtgg	AA138866
11220	agtcaggtgctttgtgcttgtacat	M94087	53824	gtgactactgatatcctggatggac	X65603	96428	tcatcattcgtggtgcgatgctcat	AA138866

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11221	gtcaggtgctttgtgcttgtacata	M94087	53825	actgatatcctggatggacaccttg	X65603	96429	tgagctcctggaacaacagcttgca	AA138866
11222	tcaggtgctttgtgcttgtacatag	M94087	53826	atcctggatggacaccttgctggac	X65603	96430	acaacagcttgcacgcgtacggcat	AA138866
11223	aggtgctttgtgcttgtacatagtc	M94087	53827	caccttgctggacttgaagtccgct	X65603	96431	acgcgtacggcattcgcaccaagga	AA138866
11224	gtgctttgtgcttgtacatagtctt	M94087	53828	gactttgcctagggctttcatcttg	X65603	96432	acggcattcgcaccaaggaaatctg	AA138866
11225	tgtcccatcgagtctcgggagactg	W55037	53829	cagtgctctgagcctgagcaatgtg	X57497	96433	ttcgcaccaaggaaatctgcagaga	AA138866
11226	tcccatcgagtctcgggagactgag	W55037	53830	caatgtggcaggcgtgttctacatc	X57497	96434	atgactctgctttggattataatga	AA153484
11227	cctggccaagtacaatcagatcctt	W55037	53831	gattccacagcaatccatcaatgaa	X57497	96435	ctgctctcacgtgcctggtggagaa	AA153484
11228	cagcaaagccaagtttgccggcagt	W55037	53832	cagccaggacttccccaagtccatg	X57497	96436	gttcactctggagttttcacgggat	AA153484
11229	agcaaagccaagtttgccggcagtc	W55037	53833	ggacttccccaagtccatgcaatcc	X57497	96437	tcactctggagttttcacgggatag	AA153484
11230	gcaaagccaagtttgccggcagtcc	W55037	53834	gtccatgcaatccattccctgcatg	X57497	96438	atcaatgtccgtctattgtacccca	AA153484
11231	caaagccaagtttgccggcagtcct	W55037	53835	gcaatccattccctgcatgagccac	X57497	96439	ccaaacaagccaagccggacatcca	AA153484
11232	agccaagtttgccggcagtccttca	W55037	53836	cattccctgcatgagccacagttca	X57497	96440	acaagccaagccggacatccatgag	AA153484
11233	ccaagtttgccggcagtccttcagg	W55037	53837	ctgcatgagccacagttcagggatg	X57497	96441	gccaagccggacatccatgagcaag	AA153484
11234	caagtttgccggcagtccttcagga	W55037	53838	agggatgcccttgggagccacagga	X57497	96442	caagccggacatccatgagcaagat	AA153484
11235	gaaccccctggccaagtaaggcatg	W55037	53839	gcccttgggagccacaggattgtaa	X57497	96443	agccggacatccatgagcaagatgt	AA153484
11236	ccctggccaagtaaggcatggaccg	W55037	53840	ccaccacaaccatatggagggcaat	X57497	96444	ccggacatccatgagcaagatgttt	AA153484
11237	tcgagtctcgggagactgaggacac	W55037	53841	cgtgttctacatcctgattggaggg	X57497	96445	acatccatgagcaagatgtttgtga	AA153484
11238	cctgccgatctgagcgcctggccaa	W55037	53842	ggcaattcagccaatgtccctgaag	X57497	96446	gctctcacgtgcctggtggagaaga	AA153484
11239	ctgccgatctgagcgcctggccaag	W55037	53843	attggccatgctggttgccttaatc	X57497	96447	tctcacgtgcctggtggagaagatg	AA153484
11240	cgatctgagcgcctggccaagtaca	W55037	53844	catgctggttgccttaatcgagttc	X57497	96448	gagcgtgcaaacgcctgcaactcgg	AA153484
11241	tgagcgcctggccaagtacaatcag	W55037	53845	cttaatcgagttctgctacaaatcc	X57497	96449	gtgcaaacgcctgcaactcggtcat	AA153484
11242	agcgcctggccaagtacaatcagat	W55037	53846	ctgctacaaatcccgtagcgagtcg	X57497	96450	gcaaacgcctgcaactcggtcataa	AA153484
11243	gcgcctggccaagtacaatcagatc	W55037	53847	caaatcccgtagcgagtcgaagcgg	X57497	96451	ctgcaactcggtcataaagcagctg	AA153484
11244	cgcctggccaagtacaatcagatcc	W55037	53848	ccgtagcgagtcgaagcggatgaag	X57497	96452	gcaactcggtcataaagcagctgat	AA153484
11245	gatgaccttcagcgagtatccctat	L37092	53849	ctgtttgattccacagcaatccatc	X57497	96453	aggagttcactctggagttttcacg	AA153484
11246	cttcagcgagtatccctataacaac	L37092	53850	ttgtagcttattggccctgcatcat	X57024	96454	gcaggcatggccaagcccaacatga	W29562
11247	ccccacgtggcctgccaagagtgag	L37092	53851	cttattggccctgcatcattgtcca	X57024	96455	caggcatggccaagcccaacatgat	W29562
11248	aggcacgagtccacggcctcctgag	L37092	53852	cttcgagcacgagccagtggccagg	X57024	96456	gatgaaatcaccgcagacgacagga	W29562
11249	ctacagccagctgggtgatgatgac	L37092	53853	agtggccaggctcaacctgtgtgtc	X57024	96457	atgaaatcaccgcagacgacaggaa	W29562
11250	agcctcagctgcaggccctggcttc	L37092	53854	cttccaaggctttgcattctgctca	X57024	96458	tgaaatcaccgcagacgacaggaag	W29562
11251	cagcctcaagttctgaggtcggctt	L37092	53855	aggctttgcattctgctcaccgctt	X57024	96459	gaaatcaccgcagacgacaggaagg	W29562
11252	caagttctgaggtcggcttgatgga	L37092	53856	tgcattctgctcaccgcttcaccag	X57024	96460	aaatcaccgcagacgacaggaaggt	W29562
11253	acgtggcccgactaggtggtgacag	L37092	53857	ggctagagactgcctgcctgggctt	X57024	96461	aatcaccgcagacgacaggaaggtg	W29562
11254	gtgacagccagacctgctgatgctg	L37092	53858	tagagactgcctgcctgggcttgac	X57024	96462	atcaccgcagacgacaggaaggtga	W29562
11255	gccagacctgctgatgctgaatcag	L37092	53859	caggaatgtcccacagaagtaccag	X57024	96463	aggcatggccaagcccaacatgatc	W29562
11256	cctgctgatgctgaatcagggcaac	L37092	53860	gaatgtcccacagaagtaccagaca	X57024	96464	ggcatggccaagcccaacatgatca	W29562
11257	tccctataacaacctccgcaagaga	L37092	53861	taactactttgtaactgcatgatta	X57024	96465	gcatggccaagcccaacatgatcat	W29562
11258	taacaacctccgcaagagatttggg	L37092	53862	gtagcactatggggcgctctcctca	X57024	96466	catggccaagcccaacatgatcatc	W29562
11259	cctccgcaagagatttggggctttg	L37092	53863	ctcctcagacctgcaagggacaagg	X57024	96467	atggccaagcccaacatgatcatca	W29562
11260	atttggggctttgttatcagatcaa	L37092	53864	agacctgcaagggacaagggactct	X57024	96468	attcgatgaaatcaccgcagacgac	W29562
11261	caagttcctgacatactaccctggc	L37092	53865	ttgttcttcccatttgaaggtctat	X57024	96469	ttcgatgaaatcaccgcagacgaca	W29562
11262	cctgacatactaccctggcaggagg	L37092	53866	gaaccataattcaaatcgagtgtcc	X57024	96470	cgatgaaatcaccgcagacgacagg	W29562
11263	agatggcctcaagcacgaatatttc	L37092	53867	acttgggctccctgtttggagtctg	X57024	96471	ccacctgacctacctgaatgtctac	AA138911
11264	catgttccccacgtggcctgccaag	L37092	53868	ccctgtttggagtctggcaggcttc	X57024	96472	gacctacctgaatgtctacctgcag	AA138911
11265	tcaatcccctgggatcccatctggt	U65016	53869	tgtttggagtctggcaggcttcgag	X57024	96473	gagcctggcctcatgtggcaccgac	AA138911
11266	ccctgggatcccatctggtggaagg	U65016	53870	ttgccgcttcttagaactgcgagct	AA044535	96474	gtgtatctgtgctgcctatttccac	AA138911
11267	ctctacacctctagctataacttta	U65016	53871	ccgcttcttagaactgcgagctgat	AA044535	96475	tgctgcctatttccaccaggcagcc	AA138911
11268	tggagacccagtctgaaatgaaaga	U65016	53872	cagtgaccatgcacgtgttctcgct	AA044535	96476	tgcctatttccaccaggcagccaag	AA138911
11269	atagattccaggtggacatacacag	U65016	53873	tgaccatgcacgtgttctcgctggt	AA044535	96477	tttccaccaggcagccaagctcaag	AA138911
11270	tacacagaaccaaaccatgagttag	U65016	53874	ccatgcacgtgttctcgctggtgat	AA044535	96478	ccaggcagccaagctcaaggggatt	AA138911
11271	gtttgtcatgtgccccagaaaaagg	U65016	53875	tgcacgtgttctcgctggtgatgat	AA044535	96479	caagctcaaggggattggggaatat	AA138911
11272	agtgactatgtccctgagtcctaga	U65016	53876	acgtgttctcgctggtgatgataat	AA044535	96480	atatgtgaacatccgcacagggatg	AA138911
11273	tatgtccctgagtcctagatggtga	U65016	53877	tgttctcgctggtgatgataattgt	AA044535	96481	tgtgaacatccgcacagggatgccc	AA138911
11274	agtgcctatgaggcactggatagac	U65016	53878	taattgtgtgagctgcgttggggta	AA044535	96482	gaacatccgcacagggatgccctgc	AA138911
11275	gatagaccagcaacactctgacact	U65016	53879	ttgtgtgagctgcgttggggtacac	AA044535	96483	ctacctgaatgtctacctgcagtgg	AA138911
11276	caggccccagtcctgtaatgagtaa	U65016	53880	tgtgagctgcgttggggtacacaca	AA044535	96484	cctgaatgtctacctgcagtggaag	AA138911
11277	gatcccatctggtggaaggagagaa	U65016	53881	atacaggctactgggacttattcct	AA044535	96485	gaacaacaattactccaccatctgg	AA138911
11278	taaacttgtctctctcccaaggcca	U65016	53882	cttcttagaactgcgagctgatcag	AA044535	96486	caattactccaccatctggtgcaat	AA138911
11279	gagagaaccggcttgcccaggatgt	U65016	53883	tactgggacttattcctctacatct	AA044535	96487	ttactccaccatctggtgcaatgac	AA138911
11280	accggcttgcccaggatgtcttctg	U65016	53884	agctgatcaggagctcgtgatgtat	AA044535	96488	gtgcaatgaccacttcatccacgcc	AA138911
11281	tcttctgatttctacgtacacgcac	U65016	53885	tgatcaggagctcgtgatgtattcg	AA044535	96489	cttcatccacgccaaggccatgcgg	AA138911
11282	gatttctacgtacacgcacacgcac	U65016	53886	gtattcgcaggacaacatcgactgc	AA044535	96490	tattatggtgcagcagcggatgagc	AA138911
11283	cacacgcacatatgagtacacacaa	U65016	53887	ttcgcaggacaacatcgactgcggc	AA044535	96491	tctcccgcactgggcgcatggatct	AA139006
11284	tgagtacacacaaagtctaagtttt	U65016	53888	ggacaacatcgactgcggcatcacc	AA044535	96492	cccgcactgggcgcatggatctggc	AA139006
11285	ttctagaaagacctctacacctcta	U65016	53889	cctgctgcacgctgggtacgacgat	AA044535	96493	gtcacacttgtggcacacgaaaggt	AA139006
11286	attctgctaggtctgagcggctctg	W55047	53890	tgccatgaacagtgaccatgcacgt	AA044535	96494	gaaaggtttctccccagcgtgcagc	AA139006
11287	ctaggtctgagcggctctgtcaaat	W55047	53891	atatcgcctgtttttaaagcacgtg	X15684	96495	gtgcagcctctcatgcctttggatg	AA139006
11288	gacccaaggttgacatctggtccct	W55047	53892	gaaatctgcagctacaactgctatc	X15684	96496	atgcctttggatgcttgacttacat	AA139006

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11289	ttgacatctggtccctgggtattat	W55047	53893	gacttcgggttttgcgtacagccat	X15684	96497	gatgcttgacttacatctgaaagtc	AA139006
11290	tctggtccctgggtattatggcaat	W55047	53894	ttatagctaccaaaagcttcctaca	X15684	96498	gcttgacttacatctgaaagtcttt	AA139006
11291	catacctcaatgaaaaccctttgag	W55047	53895	ctaccaaaagcttcctacagtgaga	X15684	96499	cttacatctgaaagtcttttcacac	AA139006
11292	tcaatgaaaaccctttgagagcctt	W55047	53896	agttgttcttagctgtagagctcag	X15684	96500	gcaccggtacctggagtttgcctcg	AA139006
11293	ctttgagagccttgtaccttattgc	W55047	53897	tcttagctgtagagctcagattatc	X15684	96501	cttctggtgcttgagaagggctact	AA139006
11294	tgagagccttgtaccttattgctac	W55047	53898	tagtttctcaccacttcagtctttg	X15684	96502	aagggctactttgcaagcgaagact	AA139006
11295	tgtaccttattgctaccaatgggac	W55047	53899	ctcaccacttcagtctttgtgttgt	X15684	96503	gcactgggcgcatggatctggccta	AA139006
11296	ttattgctaccaatgggacgccaga	W55047	53900	taattgcccatggcacacacttaaa	X15684	96504	ggctactttgcaagcgaagactttc	AA139006
11297	ctaccaatgggacgccagagcttca	W55047	53901	gcacacacttaaaccattaggagtc	X15684	96505	tggatctggcctatctccagagtgg	AA139006
11298	ggtctgagcggctctgtcaaattaa	W55047	53902	ttttgcatattgcctaaaaatctaa	X15684	96506	atctggcctatctccagagtggatt	AA139006
11299	ctgagcggctctgtcaaattaactg	W55047	53903	cggaatgttcttagccccagatcag	X15684	96507	tggcctatctccagagtggattttc	AA139006
11300	ttaactgactttggattctgtgcac	W55047	53904	agccccagatcagaagctaaaggac	X15684	96508	cctatctccagagtggattttcaag	AA139006
11301	ttctgtgcacagataactccagagc	W55047	53905	aaaggacatacggctggtgtcagct	X15684	96509	atctccagagtggattttcaagtga	AA139006
11302	cagataactccagagcagacaaaag	W55047	53906	gtcagctaaggctcacattcaaact	X15684	96510	agtgaaacctttgtcacacttgtgg	AA139006
11303	ataactccagagcagacaaaaggag	W55047	53907	taaggctcacattcaaactgacttt	X15684	96511	acctttgtcacacttgtggcacacg	AA139006
11304	ttgtgacacgcaaggcctatggacc	W55047	53908	tcacattcaaactgactttctgtta	X15684	96512	cagtctcctcatgtttcaaggaacc	M32486
11305	cacgcaaggcctatggacccaaggt	W55047	53909	tctgttacctttcctcggcttctct	X15684	96513	tacatggaacctgtcagatattcaa	M32486
11306	agtgcacactaaaagtctaatccac	M33385	53910	acctttcctcggcttctctcacttg	X15684	96514	cctttgcgttgcctttgttcatggc	M32486
11307	cactaaaagtctaatccacacataa	M33385	53911	tacctggtgcgagagaacgtatccc	X67644	96515	ctttgtttcctgacctctggtctca	M32486
11308	ttgctaacttctgtgatttccacct	M33385	53912	tctaaggcaacgctaactcagaaca	X67644	96516	ttcctgacctctggtctcaagaaca	M32486
11309	acctacaaccctgcgactgatagac	M33385	53913	ccagcacttcaactctgtagtctgt	X67644	96517	acctctggtctcaagaacacttgtc	M32486
11310	tacaaccctgcgactgatagactta	M33385	53914	cttcaactctgtagtctgttgtaag	X67644	96518	acttgtctgaggctgactccatgct	M32486
11311	gctaacgattgctttcaaagtccac	M33385	53915	ctctgtagtctgttgtaaggctttg	X67644	96519	ctgaggctgactccatgctgtttgt	M32486
11312	gattgctttcaaagtccacccggca	M33385	53916	cggcctttgatgtcttctggttgct	X67644	96520	ccatgctgtttgtacttccagtttt	M32486
11313	gcagcaccagggactgtgtggccag	M33385	53917	tcttctggttgcttctcaggggcag	X67644	96521	taagtatcttactttcagctctgaa	M32486
11314	ccagggactgtgtggccaggagtat	M33385	53918	ggttgcttctcaggggcagctgcag	X67644	96522	attcacttttacactgtgcatgcc	M32486
11315	tggacctgaattaaccacagcctga	M33385	53919	ggagtcttgggtccatggattgtca	X67644	96523	attcaagaccaatcataattgtttt	M32486
11316	acctgaattaaccacagcctgagaa	M33385	53920	tctggggtcgcctagtatgtatgtt	X67644	96524	aatgtttctctcaatgtgcttttgc	M32486
11317	tgaattaaccacagcctgagaataa	M33385	53921	ttgcctgtcattattatctgcagtt	X67644	96525	aatgtgcttttgctggcattatgca	M32486
11318	aagtctaatccacacataacaccta	M33385	53922	attatctgcagttctcgaagtgtat	X67644	96526	cttttgctggcattatgcatcaatc	M32486
11319	aatccacacataacacctatttcag	M33385	53923	gcaacgctaactcagaacactaccg	X67644	96527	ttatgcatcaatccttatcctcatt	M32486
11320	ataacacctatttcagcaacatctt	M33385	53924	gacagagactttctccgtgtctaat	X67644	96528	ccttatcctcattggagtaaaatat	M32486
11321	acacctatttcagcaacatcttctg	M33385	53925	tgtatatcctcctaggtgaaggagg	X67644	96529	agtcaagtctaggctgaggaagggc	M32486
11322	gcaacatcttctgttctctaaccttt	M33385	53926	tatttattctaacttatgcaggggt	X67644	96530	ctgcacctcagaagttggactcctg	M32486
11323	tcttctgttctctaacctttgctaa	M33385	53927	atatgcctccctgctgtaacacaga	X67644	96531	atcttgaagtctttcttgataagcc	M32486
11324	tctgttctctaacctttgctaactt	M33385	53928	ctccctgctgtaacacagatattta	X67644	96532	gaatgccgaggagctgtgagatgaa	AA139281
11325	taacctttgctaacttctgtgattt	M33385	53929	taggactcccagcttggggattagt	X67644	96533	aatgccgaggagctgtgagatgaag	AA139281
11326	aggcaagcccgagtcagggcacttg	M22479	53930	tcccagcttggggattagtctgggg	X67644	96534	atcagcacaactatcttccccaggt	AA139281
11327	caagcccgagtcagggcacttgtta	M22479	53931	cagggcagaccaacatccacctcgg	AA047939	96535	agcacaactatcttccccaggtctg	AA139281
11328	cattaacagccagagtgccaatggt	M22479	53932	gcagaccaacatccacctcggcaaa	AA047939	96536	ttccccaggtctgaggagatggaga	AA139281
11329	taacagccagagtgccaatggtggg	M22479	53933	tttctgcatccgagtcttctcggag	AA047939	96537	tccccaggtctgaggagatggagaa	AA139281
11330	caatttagacttctgtccaacacta	M22479	53934	tgcatccgagtcttctcggagaaga	AA047939	96538	gacaagccgcggcaaaatgggtgtg	AA139281
11331	tttagacttctgtccaacactaatt	M22479	53935	catccgagtcttctcggagaagaag	AA047939	96539	acaagccgcggcaaaatgggtgtgc	AA139281
11332	aagccacgctggtcttctgagattc	M22479	53936	agtcttctcggagaagaaggctgac	AA047939	96540	ggaaatgaatcctcctgtaagggtg	AA139281
11333	ccacgctggtcttctgagattccaa	M22479	53937	aaggctgactaccaagctgttgatg	AA047939	96541	aatgaatcctcctgtaagggtggat	AA139281
11334	cttcccagttctccatatcagggta	M22479	53938	ggctgactaccaagctgttgatgac	AA047939	96542	atgaatcctcctgtaagggtggata	AA139281
11335	agttctccatatcagggtagaagat	M22479	53939	ctgactaccaagctgttgatgacga	AA047939	96543	gaatcctcctgtaagggtggatagg	AA139281
11336	tctccatatcagggtagaagatcta	M22479	53940	gactaccaagctgttgatgacgaga	AA047939	96544	tgccgaggagctgtgagatgaagta	AA139281
11337	tctaggcactacatatgtaattggt	M22479	53941	ctaccaagctgttgatgacgagatc	AA047939	96545	actgctctgagcagggtttgaagaa	AA139281
11338	atgtgccatttcccaggttgccacc	M22479	53942	gattgacgccaatgaggaggacatt	AA047939	96546	aacagtcagggtcatcagcacaact	AA139281
11339	tgccatttcccaggttgccaccctt	M22479	53943	tcctcacaacccgagccagggagcg	AA047939	96547	agggtcatcagcacaactatcttcc	AA139281
11340	ggttgccacccttcatagagtttag	M22479	53944	agataccttcattaacctccgcgag	AA047939	96548	gggtcatcagcacaactatcttccc	AA139281
11341	tgccacccttcatagagtttaggca	M22479	53945	gaggtcctcaaccgcttcaagctgc	AA047939	96549	ggtcatcagcacaactatcttcccc	AA139281
11342	ttaggcatgcagtttgcttagccag	M22479	53946	tgcccccgggagagtatgtcctcgt	AA047939	96550	tcatcagcacaactatcttccccag	AA139281
11343	atgcagtttgcttagccagtgtagg	M22479	53947	tcgaacccccacaaggatggcgattt	AA047939	96551	catcagcacaactatcttccccagg	AA139281
11344	tttgcttagccagtgtaggaagcct	M22479	53948	gaaccccacaaggatggcgatttct	AA047939	96552	aactgctggtagccaagcgagatgc	AA153021
11345	aaccattaacagccagagtgccaat	M22479	53949	accccacaaggatggcgatttctgc	AA047939	96553	gtagccaagcgagatgcctttatca	AA153021
11346	gaggaccagctcaacgaggagaagt	W55061	53950	tggcgatttctgcatccgagtcttc	AA047939	96554	cttccttcaaatgagacaagagcta	AA153021
11347	aggaccagctcaacgaggagaagtg	W55061	53951	gttcaaggccaaactgggcaacatg	X94616	96555	aactactttgattccaaggcagatg	AA153021
11348	acagcgattggggattcaggccacc	W55061	53952	caacatgagacactgtctcaaaagc	X94616	96556	ctactttgattccaaggcagatgtt	AA153021
11349	gggattcaggccaccaatatggcta	W55061	53953	gctcagcccactgtgaaaccactgg	X94616	96557	actttgattccaaggcagatgttgt	AA153021
11350	ggattcaggccaccaatatggctag	W55061	53954	cccactgtgaaaccactgggttctg	X94616	96558	tttgattccaaggcagatgttgttg	AA153021
11351	gattcaggccaccaatatggctagg	W55061	53955	gggtcccagtggctgaatcaggagt	X94616	96559	tgattccaaggcagatgttgttgaa	AA153021
11352	ttcaggccaccaatatggctaggac	W55061	53956	accggcttcttgaagccccacatgt	X94616	96560	tgttgaaacacttctacagacggat	AA153021
11353	tcaggccaccaatatggctaggaca	W55061	53957	aagccccacatgtacctcgaggcct	X94616	96561	ttgaaacacttctacagacggatca	AA153021
11354	caggccaccaatatggctaggacat	W55061	53958	cacatgtacctcgaggcctttctgc	X94616	96562	gaaacacttctacagacggatcagt	AA153021
11355	ggccaccaatatggctaggacattc	W55061	53959	tacctcgaggcctttctgcctgcaa	X94616	96563	aacacttctacagacggatcagtca	AA153021
11356	gccaccaatatggctaggacattca	W55061	53960	gaggcctttctgcctgcaagcttcg	X94616	96564	tggatgtctcatcagctcgttgctc	AA153021

TABLE 1

SEQ ID NO	sequence	DBAxnID
11357	ccaccaatatggctaggacattcat	W55061
11358	gaccagctcaacgaggagaagtgcg	W55061
11359	accagctcaacgaggagaagtgcgc	W55061
11360	aagtgcgcacgcgaggccaacaaaa	W55061
11361	cacgcaccgccatgctgctgctggg	W55061
11362	cgcaccgccatgctgctgctgggtg	W55061
11363	ggatcctacatgtgaattgggttaa	W55061
11364	gatcctacatgtgaattgggttaac	W55061
11365	atcctacatgtgaattgggttaacg	W55061
11366	aggattcactccgagatcgtgaagc	W55096
11367	attcactccgagatcgtgaagcagt	W55096
11368	ggtttcctgactgatctgagccaac	W55096
11369	ttcctgactgatctgagccaactga	W55096
11370	ctgactgatctgagccaactgaaga	W55096
11371	actgatctgagccaactgaagaagc	W55096
11372	gatctgagccaactgaagaagctgc	W55096
11373	ctgctgtcactggttgatgatgagg	W55096
11374	ctgtcactggttgatgatgaggcct	W55096
11375	gatgaggccttcatcagggatgtag	W55096
11376	gaggccttcatcagggatgtagcca	W55096
11377	gccttcatcagggatgtagccaagg	W55096
11378	aagcagtctgtcttcaaggacttttt	W55096
11379	cagtctgtcttcaaggacttttatg	W55096
11380	tctgtcttcaaggacttttatgagc	W55096
11381	gtcttcaaggacttttatgagctgg	W55096
11382	ccagagaacttccagaacaagacca	W55096
11383	gagaacttccagaacaagaccaatg	W55096
11384	ttccagaacaagaccaatggtatca	W55096
11385	gaaggtttcctgactgatctgagcc	W55096
11386	aagaccatatccatgctctaggtcc	L34260
11387	atatccatgctctaggtccccaaat	L34260
11388	tctttagaagctctttggctttata	L34260
11389	gaagctctttggctttataaggaca	L34260
11390	agtattcctgatctcaccagtatcc	L34260
11391	agtatcctttcaaactaatggcagt	L34260
11392	ctttcaaactaatggcagttattct	L34260
11393	gactaatccagtagttcttaagatc	L34260
11394	cagtgaaacatcaatcctagaggaa	L34260
11395	aacatcaatcctagaggaagacact	L34260
11396	agaggaagacactcctccaacatca	L34260
11397	tcctccaacatcaggttgatgatca	L34260
11398	atgctctaggtccccaaatgaacca	L34260
11399	taggtccccaaatgaaccagatagg	L34260
11400	tcagcaatctcaaggactagctctg	L34260
11401	atctcaaggactagctctggttcaa	L34260
11402	gcacccaggtacaatgctttcctta	L34260
11403	aggtacaatgctttccttataatgg	L34260
11404	aatgtttctgggaccagaggagtgc	L34260
11405	tctatttctttagaagctctttggc	L34260
11406	tactcatacacagccctatctgatg	W55114
11407	catacacagccctatctgatgagca	W55114
11408	acacgcgatagttgtcggatattgc	W55114
11409	gtggcaccaggcaatggcatactag	W55114
11410	aatggcatactagctgcagatcagt	W55114
11411	atggcatactagctgcagatcagtc	W55114
11412	atactagctgcagatcagtccgtcg	W55114
11413	tactagctgcagatcagtccgtcgg	W55114
11414	ctagctgcagatcagtccgtcggga	W55114
11415	atcagtccgtcgggagcatggacaa	W55114
11416	gtccgtcgggagcatggacaacagg	W55114
11417	gcatggacaacaggctcgagcaaat	W55114
11418	tacacagccctatctgatgagcaca	W55114
11419	acacagccctatctgatgagcacac	W55114
11420	acagccctatctgatgagcacacgc	W55114
11421	cagccctatctgatgagcacacgcg	W55114
11422	gatgagcacacgcgatagttgtcgg	W55114
11423	atgagcacacgcgatagttgtcgga	W55114
11424	agcacacgcgatagttgtcggatat	W55114

SEQ ID NO	sequence	DBAxnID
53961	tggcccagtgcctttggtttgcatt	X94616
53962	agtgcctttggtttgcatttgggag	X94616
53963	atgctcacggtcctccatttcaacc	X94616
53964	ttcaacccacgactgcgatgctggg	X94616
53965	tgctgggacatgctgcaaggttggc	X94616
53966	ctgcaaggttggcctccctgggtgt	X94616
53967	ttggaccagacaccttctgccttt	X94616
53968	tcccctctagggaatgcctccattg	X94616
53969	aatgcctccattgagggcagaatgt	X94616
53970	tctgtcaaccccacaagtgctcagc	X94616
53971	tgcaccactcagccctgtttatttg	X67056
53972	actcagccctgtttatttgtgtaat	X67056
53973	cccattcaatgtgccaaatggcctc	X67056
53974	caatgtgccaaatggcctcagtcca	X67056
53975	gccaaatggcctcagtccatgtgcc	X67056
53976	cagtccgtttgtccgtcctctgtgc	X67056
53977	gcagtgacagccctggccaagccac	X67056
53978	acagccctggccaagccacttctaa	X67056
53979	aagccacttctaatcctctgtagca	X67056
53980	cttctaatcctctgtagcaataacg	X67056
53981	atcctctgtagcaataacggtgtgc	X67056
53982	taatgaaatttctattcctgtctct	X67056
53983	agccttgggtccagtgtgtcttcca	X67056
53984	agtgtgtcttccaggcctgcctgca	X67056
53985	tgctccagggtctctatcctttgtt	X67056
53986	tccaaccctggttgtcaggcccagc	X67056
53987	tgtcaggcccagccagcaaaggccc	X67056
53988	cggaggcccagtcttcccagacgtg	X67056
53989	agacgtgctaaccccattcaatgtg	X67056
53990	gctaaccccattcaatgtgccaaat	X67056
53991	aacatagcatgacttccgcagacta	AA047989
53992	atagcatgacttccgcagactagtt	AA047989
53993	cttctagcatccttgtatcatgcgt	AA047989
53994	ctagcatccttgtatcatgcgtcga	AA047989
53995	tccttgtatcatgcgtcgacaggat	AA047989
53996	ttgtatcatgcgtcgacaggatcag	AA047989
53997	tatcatgcgtcgacaggatcagctc	AA047989
53998	tcagctccttgaggacatcgtgacg	AA047989
53999	gctccttgaggacatcgtgacgcca	AA047989
54000	ggacatcgtgacgccagtgagcagc	AA047989
54001	catcgtgacgccagtgagcagcgtg	AA047989
54002	cgtgacgccagtgagcagcgtgtcc	AA047989
54003	gcatgacttccgcagactagttgat	AA047989
54004	cagcgtgtccagcctgaatgatgag	AA047989
54005	cttccgcagactagttgatattgag	AA047989
54006	tattgagcacggtgacctgctgaag	AA047989
54007	cggtgacctgctgaagcctgataga	AA047989
54008	tgacctgctgaagcctgatagagat	AA047989
54009	agattacaacgacttctagcatcct	AA047989
54010	ttacaacgacttctagcatccttgt	AA047989
54011	cgacttctagcatccttgtatcatg	AA047989
54012	gtcgctgacaacctggagcaacaca	AA048035
54013	gctgacaacctggagcaacacaagc	AA048035
54014	ttatggtcactctctatgcctactg	AA048035
54015	tggtcactctctatgcctactggac	AA048035
54016	acctcttggatgtgaatcgtgagct	AA048035
54017	tgaatcgtgagctcgccctgtacta	AA048035
54018	gtgagctcgccctgtactaatgaga	AA048035
54019	agctcgccctgtactaatgagactg	AA048035
54020	tcgccctgtactaatgagactgtga	AA048035
54021	atgctgttgttatcacagggacctc	AA048035
54022	ttgttatcacagggacctctcttct	AA048035
54023	ttatcacagggacctctcttctcgc	AA048035
54024	gacaacctggagcaacacaagctgc	AA048035
54025	tcgctgagcctgtggttgaggctga	AA048035
54026	gagcaacacaagctgctggcacaag	AA048035
54027	caacacaagctgctggcacaagaac	AA048035
54028	tctctacctgaatagggaagcagtt	AA048035

SEQ ID NO	sequence	DBAxnID
96565	gatgtctcatcagctcgttgctcag	AA153021
96566	tgtctcatcagctcgttgctcagac	AA153021
96567	tgctcagacttgctggaggatattt	AA153021
96568	ctcagacttgctggaggatattttt	AA153021
96569	tactacctcttccttcaaatgagac	AA153021
96570	ctacctcttccttcaaatgagacaa	AA153021
96571	acctcttccttcaaatgagacaaga	AA153021
96572	tatggtcatcatccccaacatccaa	M15008
96573	catccaaggcgccaacctggatgag	M15008
96574	agatggaaccctgccttccctgcag	M15008
96575	gccttatgctggcatcaatctcccg	M15008
96576	cagaaacctggcgccccaagaccag	M15008
96577	gccccaagaccagggtgagcgtcct	M15008
96578	gcgtccttgacaggataggacgagt	M15008
96579	cggtggctcttctctactggggtgt	M15008
96580	aggtaggcagcaggctcaggtgccc	M15008
96581	tggaagtttctgggacggagcttca	M15008
96582	agcttcatttccgtgaagggcacag	M15008
96583	tcgaagcccttccagtggtaccagc	M15008
96584	aggcgccaacctggatgagatggtt	M15008
96585	cgaagcccttccagtggtaccagct	M15008
96586	ttgggaactgcccagcaagttctgg	M15008
96587	cagcaagttctggccagatcgcttc	M15008
96588	gttctggccagatcgcttcctggaa	M15008
96589	tcgcttcctggaacctgggaagaat	M15008
96590	gaagaatcccagaacaccatccttt	M15008
96591	tcccagaacaccatcctttggctgt	M15008
96592	aacaccatcctttggctgtggggca	M15008
96593	gattttcggcgggtaggctctcgca	AA023099
96594	gtaggctctcgcacgctcattgctt	AA023099
96595	tgctcggaagatgccgcggccgtct	AA023099
96596	gcggccgtctctgcctccaagaggg	AA023099
96597	gccgtctctgcctccaagagggctc	AA023099
96598	cgtctctgcctccaagagggctcga	AA023099
96599	gtctctgcctccaagagggctcgag	AA023099
96600	ctctgcctccaagagggctcgagcg	AA023099
96601	tctgcctccaagagggctcgagcgg	AA023099
96602	tgcctccaagagggctcgagcggag	AA023099
96603	tggcgcttctctgcgcttcgtgcgg	AA023099
96604	ggcgcttctctgcgcttcgtgcggc	AA023099
96605	taggctctcgcacgctcattgcttt	AA023099
96606	ggctctcgcacgctcattgctttct	AA023099
96607	gctctcgcacgctcattgctttctt	AA023099
96608	tctcgcacgctcattgctttcttct	AA023099
96609	cgcacgctcattgctttcttctttt	AA023099
96610	gccgccatgccctgctcggaagatg	AA023099
96611	cgccatgccctgctcggaagatgcc	AA023099
96612	catgccctgctcggaagatgccgcg	AA023099
96613	tgttgccaaaatgtcgcgtttccaa	AA139469
96614	gccaaaatgtcgcgtttccaacaag	AA139469
96615	tgtgccgagcgtcgaattctgcgtg	AA139469
96616	ccgagcgtcgaattctgcgtggata	AA139469
96617	gagcgtcgaattctgcgtggataat	AA139469
96618	gcgtcgaattctgcgtggataatgg	AA139469
96619	gccagttgctgctgaacttcaaatc	AA139469
96620	cagttgctgctgaacttcaaatctc	AA139469
96621	tgctgctgaacttcaaatctctgct	AA139469
96622	ctgctgaacttcaaatctctgctgg	AA139469
96623	gctgaacttcaaatctctgctgggc	AA139469
96624	tgaacttcaaatctctgctgggcaa	AA139469
96625	cgcgtttccaacaagctgacttttg	AA139469
96626	agagcaactgcataacatacgacca	AA139469
96627	caactgcataacatacgaccaaagg	AA139469
96628	actgcataacatacgaccaaaggat	AA139469
96629	tgcataacatacgaccaaaggatga	AA139469
96630	cataacatacgaccaaaggatgaag	AA139469
96631	ctgctgtgccgagcgtcgaattctg	AA139469
96632	gctgtgccgagcgtcgaattctgcg	AA139469

TABLE 1

SEQ ID NO	sequence	DBAxnID
11425	cacacgcgatagttgtcggatattg	W55114
11426	ttcgagacattcccacacacggtag	W55119
11427	acattcccacacacggtagccatcg	W55119
11428	tgttcctacgaccaaccacactgtg	W55119
11429	cactgtgctgcccgatgccttagga	W55119
11430	gctgcccgatgccttaggagctctg	W55119
11431	cgatgccttaggagctctgtgccgc	W55119
11432	agctctgtgccgctgtctatctatg	W55119
11433	ccgcgacacctggacatcatctatg	W55119
11434	cacctggacatcatctatgccctca	W55119
11435	gacatcatctatgccctcatccaga	W55119
11436	atccagactgagctggatcacgtgg	W55119
11437	ctggatcacgtggctgcgctgtttc	W55119
11438	ccacacacggtagccatcgaactgt	W55119
11439	acggtagccatcgaactgtatgaca	W55119
11440	atcgccgagctcatgcggatcctga	W55119
11441	gagctcatgcggatcctgatgtacg	W55119
11442	atgcggatcctgatgtacgtggaga	W55119
11443	atcctgatgtacgtggagacggtcg	W55119
11444	tatacggcctgagagatctacaaga	W55119
11445	tacaagatgacctgttcctacgacc	W55119
11446	aagcagcatccttttgtattcccac	M22740
11447	catccttttgtattcccactgagta	M22740
11448	tcgccgtaagctgcaagtgtggcaa	M22740
11449	taagctgcaagtgtggcaagtgtaa	M22740
11450	atactgacaacagtgactgcataca	M22740
11451	gtgactgcatacacgaggctgtcag	M22740
11452	gcatacacgaggctgtcagaaccaa	M22740
11453	ctgtcagaaccaactactgcaccaa	M22740
11454	gaaccaactactgcaccaagccgca	M22740
11455	actactgcaccaagccgcagtcttt	M22740
11456	ctgtttaacttcaatagcagtgcaa	M22740
11457	aacttcaatagcagtgcaatctggt	M22740
11458	tttgtattcccactgagtatacaat	M22740
11459	ttcccactgagtatacaatgtacgt	M22740
11460	acaccaccatctgtgctgggtattg	M22740
11461	aactgtttcttcccaaatatgcact	M22740
11462	ttcttcccaaatatgcactctctca	M22740
11463	ccaaatatgcactctctcaggatgt	M22740
11464	catacagagacttcatctacagaac	M22740
11465	tcatctacagaacggtggaaatacc	M22740
11466	ggccaaacatacctaacagatggtt	L15436
11467	acatacctaacagatggttctcaga	L15436
11468	tgctggcctgactggttgtcagaac	L15436
11469	tcttcccagccatgttccaggggga	L15436
11470	aacctcgctcaaaaactgtgactcg	L15436
11471	aaactgtgactcgagccctcgatga	L15436
11472	tgactcgagccctcgatgaactgtt	L15436
11473	tcgatgaactgttcacaccacaaag	L15436
11474	tcacaccacaaagacttaacggtgg	L15436
11475	acccggagagatcctgcaggcgatc	L15436
11476	cctgcaggcgatctgggcattaaga	L15436
11477	attaagacagtggctctctgcgtat	L15436
11478	gatggttctcagacccgacattaac	L15436
11479	ggtatcagaacccatccgcaagact	L15436
11480	caagactcacagctctacgtatcaa	L15436
11481	tcacagctctacgtatcaaaaagac	L15436
11482	aaactgactgttgaccttgtcaccg	L15436
11483	gaccttgtcaccggtgtcaagaagg	L15436
11484	gagagtcaatgctgtccttgtccag	L15436
11485	acctaatgctggcctgactggttgt	L15436
11486	ctcttccagagatggctaacaggggg	AA118297
11487	cttccagagatggctaacaggggtc	AA118297
11488	gactggatcatcctgcagtgtgctg	AA118297
11489	ggatcatcctgcagtgtgctgagga	AA118297
11490	catcctgcagtgtgctgaggatata	AA118297
11491	tcctgcagtgtgctgaggatataga	AA118297
11492	gacggtcctgtgcaagctgataaac	AA118297
54029	ggcaacccggaggtgacgtgatcct	AA048035
54030	accacggtgacctgtgctaccttat	AA048035
54031	acctgtgctaccttatggtcactct	AA048035
54032	tgtgctaccttatggtcactctcta	AA048035
54033	tcggatcatggtcgtggagaagccc	AA162918
54034	ggacagagaatcccttcgagtacga	AA162918
54035	gcctcctcatcattctcagcaaaag	AA162918
54036	cctcctcatcattctcagcaaaagg	AA162918
54037	catcattctcagcaaaaggttccgc	AA162918
54038	atcattctcagcaaaaggttccgct	AA162918
54039	tcattctcagcaaaaggttccgctg	AA162918
54040	cattctcagcaaaaggttccgctgt	AA162918
54041	attctcagcaaaaggttccgctgtg	AA162918
54042	ttctcagcaaaaggttccgctgtgg	AA162918
54043	tctcagcaaaaggttccgctgtggg	AA162918
54044	ctcagcaaaaggttccgctgtgggg	AA162918
54045	gacagagaatcccttcgagtacgac	AA162918
54046	cagagaatcccttcgagtacgacta	AA162918
54047	agagaatcccttcgagtacgactat	AA162918
54048	agaatcccttcgagtacgactatga	AA162918
54049	tcccttcgagtacgactatgaaaca	AA162918
54050	cccttcgagtacgactatgaaacag	AA162918
54051	tcgtgggcctcctcatcattctcag	AA162918
54052	ggcctcctcatcattctcagcaaaa	AA162918
54053	ctggtcaacttgaacactgttactg	X16314
54054	tttctaactttacagaattgcctgt	X16314
54055	cagactgttacttggcttctgaaaa	X16314
54056	cagcctgtgccccttacgttttctg	X16314
54057	ggtttctctcttgccatgatgactt	X16314
54058	tctcttgccatgatgacttctaatt	X16314
54059	tctaattgccatcgtatagtatgtt	X16314
54060	agataactcactgtaaacagactgt	X16314
54061	ctcactgtaaacagactgtaactgc	X16314
54062	agcgcttataaatcaacctaacatt	X16314
54063	tataaatcaacctaacatttataag	X16314
54064	catttataagatttcctctgacttg	X16314
54065	ctaactttacagaattgcctgtttg	X16314
54066	ttacagaattgcctgtttgtttcaa	X16314
54067	cagaattgcctgtttgtttcaatgt	X16314
54068	aattgcctgtttgtttcaatgtctc	X16314
54069	cacttgtctcctatgagactcatag	X16314
54070	atgagactcatagccagacagactg	X16314
54071	ctcatagccagacagactgttactt	X16314
54072	atagccagacagactgttacttggc	X16314
54073	cagctacattcctcaaataccaggc	Z11911
54074	cattcctcaaataccaggcatttaa	Z11911
54075	atggccacactagcctcagtgctac	Z11911
54076	acactagcctcagtgctactagaca	Z11911
54077	gcctcagtgctactagacattcctc	Z11911
54078	attcctcctcaccagatggaagaga	Z11911
54079	acctcatgctgcctagcaatatttt	Z11911
54080	tgctgcctagcaatattttgggggc	Z11911
54081	atgtcccctgaccaattccatactc	Z11911
54082	cctgaccaattccatactccatggt	Z11911
54083	caattccatactccatggtcaacct	Z11911
54084	cacctatgggcagcctccttaccaa	Z11911
54085	cagggccaccactggccctatctga	Z11911
54086	tgccattaaatcctcaaaacagtta	Z11911
54087	tggccctatctgagccacccatctt	Z11911
54088	tatctgagccacccatctttccaca	Z11911
54089	agaatgcctatcagtctgcccctgg	Z11911
54090	aaaccagacttcccagaggctatgg	Z11911
54091	gctatgggcaagctcctcaaaactt	Z11911
54092	ggcaagctcctcaaaacttgaagga	Z11911
54093	tcaaggacacctatgtgagaggacc	Z11911
54094	gatccgattgtcatgatgagcccga	AA048152
54095	attgtcatgatgagcccgaggctcg	AA048152
54096	atctgccgaggtatctctgatgata	AA048152
96633	gtcttcccctcttcttgaaatccatgc	AA139594
96634	ttcccctcttcttgaaatccatgccga	AA139594
96635	ggaatctccggttccattccaggct	AA139594
96636	tccggttccattccaggcttggaag	AA139594
96637	ggttccattccaggcttggaagagg	AA139594
96638	tccattccaggcttggaagagggag	AA139594
96639	ggtacagatccctggaccttctctc	AA139594
96640	gatccctggaccttctctccgctga	AA139594
96641	ccctggaccttctctccgctgaaga	AA139594
96642	accttctctccgctgaagaacgctg	AA139594
96643	ttctctccgctgaagaacgctgacc	AA139594
96644	aacgctgaccaactgaaagaggttg	AA139594
96645	cccttcttgaaatccatgccgaatt	AA139594
96646	ttcttgaaatccatgccgaattccc	AA139594
96647	ttgaaatccatgccgaattccctcg	AA139594
96648	cctactctggatgcctttgacctgg	AA139594
96649	gatgcctttgacctggtggaccgga	AA139594
96650	tttgacctggtggaccggagtctga	AA139594
96651	gacctggtggaccggagtctgagaa	AA139594
96652	ctggtggaccggagtctgagaaatg	AA139594
96653	gaatggtaccagattccaagagtac	AA139631
96654	atggtaccagattccaagagtactc	AA139631
96655	gcacaatcagccactggtggcgctg	AA139631
96656	acaatcagccactggtggcgctgag	AA139631
96657	agccactggtggcgctgagctgaca	AA139631
96658	ctgagctgacagccaaaccctgtga	AA139631
96659	gagctgacagccaaaccctgtgaca	AA139631
96660	gctgacagccaaaccctgtgacacg	AA139631
96661	acagccaaaccctgtgacacggctc	AA139631
96662	agccaaaccctgtgacacggctcgg	AA139631
96663	ccaaaccctgtgacacggctcggcg	AA139631
96664	tgtgacacggctcggcggcgaacga	AA139631
96665	caagagtactcacatcgtcatcaag	AA139631
96666	agagtactcacatcgtcatcaagtc	AA139631
96667	tactcacatcgtcatcaagtcgaag	AA139631
96668	ctcacatcgtcatcaagtcgaagac	AA139631
96669	cacatcgtcatcaagtcgaagactg	AA139631
96670	catcgtcatcaagtcgaagactgca	AA139631
96671	tcgtcatcaagtcgaagactgcaca	AA139631
96672	aagactgcacaatcagccactggtg	AA139631
96673	tgcccgtcatggtgtgtgaactctg	X58077
96674	tgtcttcacggttcaactagatgca	X58077
96675	acacatacacacaagagaggaccct	X58077
96676	tcttctgcccatgacccaagacaga	X58077
96677	ccctatgacacagaaactattccct	X58077
96678	gacacagaaactattccctgccaca	X58077
96679	tgccacacatggacatgaacactga	X58077
96680	gtagcaacgatcagctttatcacat	X58077
96681	agctttatcacatttagttaaatca	X58077
96682	attgtggtttcctttctgagacatg	X58077
96683	gtttcctttctgagacatgaatttg	X58077
96684	cacacgctgtcgtggaactcacagg	X58077
96685	tgagcacttactacatatgctacat	X58077
96686	cttactacatatgctacatgattca	X58077
96687	acatatgctacatgattcagatgtt	X58077
96688	agatgttcagcagtggttagagcaa	X58077
96689	aagcctaactgctaggcttttgat	X58077
96690	aactgctaggcttttgatgcaagt	X58077
96691	ccttccaggtctcttcttacacata	X58077
96692	aggtctcttcttacacatacacaca	X58077
96693	gctcttcgggcgcagcttgttgacc	AA139694
96694	ctgggactcggcgatgtgcgccctc	AA139694
96695	agcctggcgcttgtagtccttcacc	AA139694
96696	gcgcttgtagtccttcaccatcagc	AA139694
96697	gtagtccttcaccatcagctgcatc	AA139694
96698	catcagctgcatcctgtccatcagg	AA139694
96699	ctgcatcctgtccatcaggtcctgc	AA139694
96700	catcaggtcctgcagccgcagtagg	AA139694

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11493	cggtcctgtgcaagctgataaacag	AA118297	54097	aagatccggatctttgcatttgaga	AA048152	96701	ttcctctgtctggtaggtgagctcc	AA139694
11494	taaacagtttatatccaccagggca	AA118297	54098	atccggatctttgcatttgagacgg	AA048152	96702	gagctccttgatgcgccgatcactc	AA139694
11495	aacagtttatatccaccagggcaag	AA118297	54099	tgtgttcgtactttgagtgcatata	AA048152	96703	catgcccttcacagactctgcactg	AA139694
11496	cagtttatatccaccagggcaagaa	AA118297	54100	gttcgtactttgagtgcatataatg	AA048152	96704	cttcacagactctgcactgcgcttt	AA139694
11497	atatccaccagggcaagaacccatc	AA118297	54101	tgagcaactcatttattgagcagta	AA048152	96705	atccagctcgtgctgcaccttgctg	AA139694
11498	tggctaacaggggtccgagctatgg	AA118297	54102	agcagtagacgctacgcgtatttgt	AA048152	96706	agactctgcactgcgcttttgctca	AA139694
11499	gctatggcttaagccgagaggtgca	AA118297	54103	agtagacgctacgcgtatttgtgca	AA048152	96707	ctcgtgctgcaccttgctgaacttg	AA139694
11500	tatggcttaagccgagaggtgcagg	AA118297	54104	agacgctacgcgtatttgtgcatgt	AA048152	96708	ctgcaccttgctgaacttggacagg	AA139694
11501	gaagtatgacgcggatctggagaac	AA118297	54105	cgctacgcgtatttgtgcatgtaga	AA048152	96709	cttgctgaacttggacaggttggtg	AA139694
11502	agtatgacgcggatctggagaacaa	AA118297	54106	gcttggtgctaccggtattgttgga	AA048152	96710	gttgacctgctcctgagactcctca	AA139694
11503	tatgacgcggatctggagaacaagc	AA118297	54107	tggtgctaccggtattgttggacta	AA048152	96711	ctgctcctgagactcctcagcctgg	AA139694
11504	agaacaagctggtggactggatcat	AA118297	54108	tgctaccggtattgttggactatgc	AA048152	96712	ctgagactcctcagcctggcgcttg	AA139694
11505	tggactggatcatcctgcagtgtgc	AA118297	54109	atgccatatgcatagtcgcgtatct	AA048152	96713	ctcctcagcctggcgcttgtagtcc	AA139694
11506	cgtcctgcgtagggagcaggactct	W55077	54110	ccatatgcatagtcgcgtatctgcc	AA048152	96714	ggagattttcctcggcgaggttgat	AA139697
11507	tcctgcgtagggagcaggactctga	W55077	54111	tatgcatagtcgcgtatctgccgag	AA048152	96715	gagattttcctcggcgaggttgatc	AA139697
11508	ttccgcatgatcaacgagcagcaag	W55077	54112	gcatagtcgcgtatctgccgaggta	AA048152	96716	tgtttcagatgccctgaacaaggat	AA139697
11509	tccgcatgatcaacgagcagcaagt	W55077	54113	cgtatctgccgaggtatctctgatg	AA048152	96717	gtttcagatgccctgaacaaggatt	AA139697
11510	gaggacatcaccatagacttcttct	W55077	54114	gtatgctacactcaactactattca	X59300	96718	tttcagatgccctgaacaaggattc	AA139697
11511	aggacatcaccatagacttcttcta	W55077	54115	caactactattcaagctgtcgaaag	X59300	96719	ttcagatgccctgaacaaggattcg	AA139697
11512	gacatcaccatagacttcttctacc	W55077	54116	ctgccagagcttcttctgctgctat	X59300	96720	cagatgccctgaacaaggattcgat	AA139697
11513	acatcaccatagacttcttctaccg	W55077	54117	cttctgctgctatgaggagtgcaag	X59300	96721	agatgccctgaacaaggattcgata	AA139697
11514	atcaccatagacttcttctaccggc	W55077	54118	ctcctggaggagaggccgcatccac	X59300	96722	atgccctgaacaaggattcgatatg	AA139697
11515	tcaccatagacttcttctaccggcc	W55077	54119	aggccgcatccacattgatgtctct	X59300	96723	tgccctgaacaaggattcgatatga	AA139697
11516	ccatagacttcttctaccggccgca	W55077	54120	tgtctctgagctggactcctactct	X59300	96724	cgatatgagacgcttgacggaccct	AA139697
11517	atagacttcttctaccggccgcaca	W55077	54121	tgagctggactcctactctcgggtc	X59300	96725	atatgagacgcttgacggaccctcc	AA139697
11518	aactacaggatgcatttccgcatga	W55077	54122	atacctgtatctttaagtgctgctc	X59300	96726	agattttcctcggcgaggttgatct	AA139697
11519	actacaggatgcatttccgcatgat	W55077	54123	ttaagtgctgctctgagggatgact	X59300	96727	gattttcctcggcgaggttgatctc	AA139697
11520	acaggatgcatttccgcatgatcaa	W55077	54124	gctgctctgagggatgactgaagag	X59300	96728	attttcctcggcgaggttgatctct	AA139697
11521	aggatgcatttccgcatgatcaacg	W55077	54125	aggacacgactccagtttgttgtgc	X59300	96729	ttttcctcggcgaggttgatctcta	AA139697
11522	ggatgcatttccgcatgatcaacga	W55077	54126	ctattcaagctgtcgaaagccaacc	X59300	96730	tttcctcggcgaggttgatctctaa	AA139697
11523	atgcatttccgcatgatcaacgagc	W55077	54127	ttcgttattacatccagattccaca	X59300	96731	ttcctcggcgaggttgatctctaat	AA139697
11524	catttccgcatgatcaacgagcagc	W55077	54128	tccagattccacaagatggattcct	X59300	96732	tcctcggcgaggttgatctctaatg	AA139697
11525	atttccgcatgatcaacgagcagca	W55077	54129	ttccacaagatggattcctgatcga	X59300	96733	atgtttcagatgccctgaacaagga	AA139697
11526	ttgacagagaccccaagctgcccat	M13445	54130	agcaccctctaattactctctactg	X59300	96734	cattcttgctagcgaaactgggaga	AA139741
11527	tgacagagaccccaagctgcccatt	M13445	54131	ctctaattactctctactggacatg	X59300	96735	gagattgccacacattactgaagtc	AA139741
11528	ccccaagctgcccatttcacttatg	M13445	54132	ttccatgtactggcaggaatttgag	X59300	96736	acttgatctgttgtctgctcgttac	AA139741
11529	cccaagctgcccatttcacttatgg	M13445	54133	atttgaggacacctgtgtctatgag	X59300	96737	gttgtctgctcgttacatgaggcag	AA139741
11530	ccaagctgcccatttcacttatggg	M13445	54134	agtcacctgtgagtcagccgcagag	X83506	96738	aattactgtgcgtttaatcaaatct	AA139741
11531	caagctgcccatttcacttatgggt	M13445	54135	ctgtgagtcagccgcagagtccagc	X83506	96739	atctgtggacaactaggcagctcga	AA139741
11532	aagctgcccatttcacttatgggtt	M13445	54136	cttccccacagcattctgcattgag	X83506	96740	ggacaactaggcagctcgaacttga	AA139741
11533	agctgcccatttcacttatgggttt	M13445	54137	cacagcattctgcattgagctactc	X83506	96741	ctaggcagctcgaacttgaaaagtc	AA139741
11534	gctgcccatttcacttatgggtttt	M13445	54138	attctgcattgagctactcacttga	X83506	96742	caccaagtcatactagaaagctcac	AA139741
11535	gacagagaccccaagctgcccattt	M13445	54139	gctactcacttgacactgacccagg	X83506	96743	ctagaaagctcactacgctagtatg	AA139741
11536	acagagaccccaagctgcccatttc	M13445	54140	accaggcagcatctgaggacctgct	X83506	96744	gaaagctcactacgctagtatggat	AA139741
11537	cagagaccccaagctgcccatttca	M13445	54141	acgacactagcacggacctcacgga	X83506	96745	agctcactacgctagtatggatatc	AA139741
11538	agagaccccaagctgcccatttcac	M13445	54142	ctagcacggacctcacggacgtgat	X83506	96746	attgccacacattactgaagtcttg	AA139741
11539	gagaccccaagctgcccatttcact	M13445	54143	cggacctcacggacgtgatggagca	X83506	96747	acacattactgaagtcttggtaagg	AA139741
11540	agaccccaagctgcccatttcactt	M13445	54144	agatcaacagcacgtttccctcttg	X83506	96748	tactgaagtcttggtaagggctatt	AA139741
11541	gaccccaagctgcccatttcactta	M13445	54145	cctcttgcagctcaaatgtccccag	X83506	96749	tatgatcgctgcaaaaccgatgtct	AA139741
11542	accccaagctgcccatttcacttat	M13445	54146	gtcagccgcagagtccagctcagat	X83506	96750	gatcgctgcaaaaccgatgtctgtt	AA139741
11543	catctcagctgagaaggcataccat	M13442	54147	ccccagcaggccacaggcaatgtga	X83506	96751	cgctgcaaaaccgatgtctgttgag	AA139741
11544	gatgtcaacgcggctattgcaacca	M13442	54148	aagctaaactcctgcggcagcacaa	X83506	96752	tgactagtctccacttgatctgttg	AA139741
11545	gcctggaccacaaatttgacctcat	M13442	54149	aactcctgcggcagcacaaagggcg	X83506	96753	ctagtctccacttgatctgttgtct	AA139741
11546	ggaccacaaatttgacctcatgtac	M13442	54150	agtctcagctgcaccgcctcagaca	X83506	96754	ctatgaccaaggacaacaaccgtgc	AA139789
11547	accacaaatttgacctcatgtacgc	M13442	54151	accgcctcagacagctcctggagca	X83506	96755	accgtgcctgtttagtacgagctca	AA139789
11548	caaatttgacctcatgtacgccaag	M13442	54152	agctcctggagcagcctgactctga	X83506	96756	gacatcgatgccaaaggattctaaa	AA139789
11549	aatttgacctcatgtacgccaagcg	M13442	54153	tggagcagcctgactctgactcccg	X83506	96757	taaatgagtctgctttacagaagca	AA139789
11550	tttgacctcatgtacgccaagcgag	M13442	54154	actctgactcccgcatcaatggtgt	X83506	96758	ctttacagaagcagacacggtagga	AA139789
11551	tgacctcatgtacgccaagcgagcc	M13442	54155	gacccgaacagcctgccctggtatc	AA048301	96759	agatcaggatcacgatcacgagtgg	AA139789
11552	acctcatgtacgccaagcgagcctt	M13442	54156	agcctgccctggtatcctggtgctc	AA048301	96760	tcaggatcacgatcacgagtggcat	AA139789
11553	ctcatgtacgccaagcgagcctttg	M13442	54157	actccagctgttactgctgctactg	AA048301	96761	ggatcacgatcacgagtggcatggg	AA139789
11554	ctggcagcgctggagaaggactatg	M13442	54158	cctggtgcagcccctgaatcgtgca	AA048301	96762	cgatcacgagtggcatgggacgctt	AA139789
11555	tgtcaacgcggctattgcaaccata	M13442	54159	gcagcccctgaatcgtgcacggaat	AA048301	96763	gcatgggacgcttgagtcaggtaga	AA139789
11556	tcaacgcggctattgcaaccataaa	M13442	54160	gcccctgaatcgtgcacggaatctg	AA048301	96764	atactgaactcatggtcccagaagc	AA139789
11557	aacgcggctattgcaaccataaaga	M13442	54161	tgcacggaatctgctgccattggag	AA048301	96765	ctgaactcatggtcccagaagctga	AA139789
11558	gctattgcaaccataaagacaaagc	M13442	54162	tctgctgccattggagacacgctcc	AA048301	96766	tagtacgagctcactggcatctgtt	AA139789
11559	tattgcaaccataaagacaaagcgt	M13442	54163	acgctccacatacactacacgggca	AA048301	96767	tacgagctcactggcatctgtttag	AA139789
11560	tagattggtgtccgactggatttaa	M13442	54164	cacatacactacacgggcagtttgg	AA048301	96768	gagctcactggcatctgtttagcac	AA139789

TABLE 1

SEQ ID NO	sequence	DBAxnID
11561	gctgagcaataccacggccatcgca	M13442
11562	tgagcaataccacggccatcgcaga	M13442
11563	gaccctgagctggaacgcatcagtg	W55176
11564	ctggaacgcatcagtgtctactaca	W55176
11565	agtatgtgcccagagccattctggt	W55176
11566	atgtgcccagagccattctggtgga	W55176
11567	tgcccagagccattctggtggacct	W55176
11568	agcctggaaccatggacagcgttcg	W55176
11569	ctggaaccatggacagcgttcggtc	W55176
11570	gaaccatggacagcgttcggtctgg	W55176
11571	ccatggacagcgttcggtctggggc	W55176
11572	cctttggacacctattcaggcctga	W55176
11573	ttggacacctattcaggcctgacaa	W55176
11574	gacacctattcaggcctgacaactt	W55176
11575	agtgtctactacaatgaggctcctc	W55176
11576	gtctactacaatgaggctcctctca	W55176
11577	tactacaatgaggctcctctcacaa	W55176
11578	tacaatgaggctcctctcacaagta	W55176
11579	aatgaggctcctctcacaagtatgt	W55176
11580	gaggctcctctcacaagtatgtgcc	W55176
11581	gctcctctcacaagtatgtgcccag	W55176
11582	ctcacaagtatgtgcccagagccat	W55176
11583	tgcactccggccagggaaggcatga	W55187
11584	ctcaagccttctggaaggcggtcac	W55187
11585	cctggccatgctcatctttgttctg	W55187
11586	tggccatgctcatctttgttctgct	W55187
11587	gccatgctcatctttgttctgctca	W55187
11588	tgctcatctttgttctgctcagcgt	W55187
11589	ctcatctttgttctgctcagcgtgg	W55187
11590	tttgttctgctcagcgtgggatcca	W55187
11591	tgttctgctcagcgtgggatccacc	W55187
11592	ttctgctcagcgtgggatccaccat	W55187
11593	ctgctcagcgtgggatccaccatta	W55187
11594	tcagcgtgggatccaccattaactg	W55187
11595	aaggcggtcacagcagagttcctgg	W55187
11596	cggtcacagcagagttcctggccat	W55187
11597	gtcacagcagagttcctggccatgc	W55187
11598	cacagcagagttcctggccatgctc	W55187
11599	cagcagagttcctggccatgctcat	W55187
11600	agagttcctggccatgctcatcttt	W55187
11601	agttcctggccatgctcatctttgt	W55187
11602	ttcctggccatgctcatctttgttc	W55187
11603	atgcaccagtcatttctgcagagaa	M13444
11604	caccagtcatttctgcagagaaggc	M13444
11605	tcgactcctatgaggacgaggatga	M13444
11606	actcctatgaggacgaggatgaggg	M13444
11607	aagagtagaccgctacttggagcct	M13444
11608	agtagaccgctacttggagcctgtt	M13444
11609	ctacttggagcctgttcactgtgtt	M13444
11610	cttggagcctgttcactgtgtttat	M13444
11611	ggagcctgttcactgtgtttattgc	M13444
11612	gcctgttcactgtgtttattgcaaa	M13444
11613	tgttcactgtgtttattgcaaaatc	M13444
11614	tgcaaaatcctttcgaaataaacag	M13444
11615	cagtcatttctgcagagaaggccta	M13444
11616	ctgccatagctgccatcaagacgaa	M13444
11617	tagctgccatcaagacgaagcgcag	M13444
11618	ctgccatcaagacgaagcgcagcat	M13444
11619	gtctggaccacaagtttgacttgat	M13444
11620	aagtaggcatcgactcctatgagga	M13444
11621	taggcatcgactcctatgaggacga	M13444
11622	gcatcgactcctatgaggacgagga	M13444
11623	gctctgctacactccggcctgagag	W55192
11624	ctccggcctgagagacgggtcttca	W55192
11625	gtcactcgagttgtgagctcggaac	W55192
11626	tcactcgagttgtgagctcggaacc	W55192
11627	cactcgagttgtgagctcggaaccc	W55192
11628	actcgagttgtgagctcggaacccg	W55192
54165	attattgacacttctctgaccagag	AA048301
54166	attgacacttctctgaccagagatc	AA048301
54167	ctgccctggtatcctggtgctctga	AA048301
54168	tatcctggtgctctgacccggtcca	AA048301
54169	ggtgctctgacccggtccaatcatg	AA048301
54170	acccggtccaatcatgaccctgagc	AA048301
54171	cggtccaatcatgaccctgagccct	AA048301
54172	aatcatgaccctgagccctttgctc	AA048301
54173	cctaccactccagctgttactgctg	AA048301
54174	accactccagctgttactgctgcta	AA048301
54175	ttttatactacagccctgattcctc	X75129
54176	actacagccctgattcctcggagca	X75129
54177	cttgcgttatgtccctactcgccac	X75129
54178	aactaagattctcacacacctcctg	X75129
54179	gacgctgaaaccaacgtttctctag	X75129
54180	gatctgcatgctttcttcagagagc	X75129
54181	catgctttcttcagagagcttatat	X75129
54182	tctgccaagccaccaagggccgtgt	X75129
54183	ccgcagctgcacactcatagtcttc	X75129
54184	actcatagtcttcagtggaatagtg	X75129
54185	cctccaactgcctttacatcataga	X75129
54186	actgcctttacatcatagaagacaa	X75129
54187	gccctgattcctcggagcatcaagt	X75129
54188	atcaagtgcataccgtagtatccag	X75129
54189	tgcataccgtagtatccagatttcc	X75129
54190	tatccagatttccacacatcccatg	X75129
54191	tcccatggggactcagcaggatggc	X75129
54192	caattgtgatccaaatcatgagttg	X75129
54193	attctgagtccatttttgatcacat	X75129
54194	tttttgatcacatatttgaaatgag	X75129
54195	agcttattttcctgcaatgaaagca	X61453
54196	tgtgaatttacccacagaaaatgaa	X61453
54197	atcacaagtagctgaacttaagaaa	X61453
54198	tgacaaaccagaccagatggctgca	X61453
54199	caaaccagaccagatggctgcactc	X61453
54200	ccagatggctgcactctttaaaaga	X61453
54201	gatggctgcactctttaaaagatta	X61453
54202	ggctgcactctttaaaagattatca	X61453
54203	atcatctgttgacagtgtcttgaaa	X61453
54204	atctgttgacagtgtcttgaaaagg	X61453
54205	tcctcctcgtgagctccattgaag	X61453
54206	ctgtcctcggctgctgggttaccat	X61453
54207	attaacattcaatgcagaggaatat	X61453
54208	atcattatcagagctcctaggccca	X61453
54209	attatcagagctcctaggcccatat	X61453
54210	agagctcctaggcccatatgggatg	X61453
54211	cctaggcccatatgggatgaagttc	X61453
54212	gagccttatgtggcacatttcatca	X61453
54213	gcacatttcatcacaagtagctgaa	X61453
54214	catttcatcacaagtagctgaactt	X61453
54215	cccaggattgacccaccagacaggg	Z19543
54216	gacccaccagacaggggacatgggt	Z19543
54217	ccagatgtgaccccaacgcctgcag	Z19543
54218	cactcctctggtgtttgaaggcttc	Z19543
54219	tcctctggtgtttgaaggcttccct	Z19543
54220	tgcccctgtgcaggccctgattagg	Z19543
54221	ccctgtgcaggccctgattaggtgt	Z19543
54222	gcaggccctgattaggtgtgctaga	Z19543
54223	aggggccacacatgacccacacggg	Z19543
54224	gcccctgcactgccaggaaatgtga	Z19543
54225	cctgcactgccaggaaatgtgaaat	Z19543
54226	aatgtgaaattccctgtgtggacca	Z19543
54227	ccaccagacaggggacatgggtgtc	Z19543
54228	ttcatctctttcacatcagtttgtg	Z19543
54229	atctctttcacatcagtttgtggtt	Z19543
54230	aattacaggcagtttcaatgaaaga	Z19543
54231	atactgcaggcattctgagggacta	Z19543
54232	aagtttgctttcccacgactctcag	Z19543
96769	actggcatctgtttagcacaacgag	AA139789
96770	ggcatctgtttagcacaacgagggt	AA139789
96771	atctgtttagcacaacgagggtctt	AA139789
96772	ttagcacaacgagggtcttctcaga	AA139789
96773	catgacatcgatgccaaaggattct	AA139789
96774	tgagcccatggggaagccaggtcag	AA139680
96775	cacatgtccccaggtcaccttgcta	AA139680
96776	cactctgacacctaggctctgacag	AA139680
96777	tctgacacctaggctctgacaggca	AA139680
96778	acctaggctctgacaggcaggcgtg	AA139680
96779	acaggcaggcgtgtgtcactttctc	AA139680
96780	gtgtcactttctcacacttccttcc	AA139680
96781	tccttccaccaagggactgactatt	AA139680
96782	ctgacctcagcaatcagctctgtgc	AA139680
96783	acctcagcaatcagctctgtgctgg	AA139680
96784	gcaatcagctctgtgctggccctga	AA139680
96785	agctctgtgctggccctgagaggat	AA139680
96786	atgtccccaggtcaccttgctatgg	AA139680
96787	gtgctggccctgagaggatattgtc	AA139680
96788	tccccaggtcaccttgctatggcct	AA139680
96789	ggtcaccttgctatggcctatagcc	AA139680
96790	caccttgctatggcctatagccctc	AA139680
96791	cttgctatggcctatagccctcact	AA139680
96792	atggcctatagccctcactctgaca	AA139680
96793	tatagccctcactctgacacctagg	AA139680
96794	cctcactctgacacctaggctctga	AA139680
96795	gatccatgcagaaaactcatagagg	AA139828
96796	atccatgcagaaaactcatagaggt	AA139828
96797	caaccctcactgaacatcagcgaat	AA139828
96798	aaccctcactgaacatcagcgaatt	AA139828
96799	accctcactgaacatcagcgaattc	AA139828
96800	ccctcactgaacatcagcgaattca	AA139828
96801	cactgaacatcagcgaattcatacc	AA139828
96802	actgaacatcagcgaattcataccg	AA139828
96803	ctgaacatcagcgaattcataccgg	AA139828
96804	tgaacatcagcgaattcataccggc	AA139828
96805	attataagtcaaccctcactgaaca	AA139828
96806	ttataagtcaaccctcactgaacat	AA139828
96807	tataagtcaaccctcactgaacatc	AA139828
96808	ataagtcaaccctcactgaacatca	AA139828
96809	taagtcaaccctcactgaacatcag	AA139828
96810	agtcaaccctcactgaacatcagcg	AA139828
96811	gtcaaccctcactgaacatcagcga	AA139828
96812	tcaaccctcactgaacatcagcgaa	AA139828
96813	tctcaatcttcctcgtcactacaag	AA139854
96814	tcctcgtcactacaagtccatcagt	AA139854
96815	agccatttgtactgggaccactgtt	AA139854
96816	catttgtactgggaccactgtttgc	AA139854
96817	tgggaccactgtttgccatggaaag	AA139854
96818	gaccactgtttgccatggaaagcag	AA139854
96819	catctgcaaatggacccctgtaaat	AA139854
96820	ctgcaaatggacccctgtaaatact	AA139854
96821	tgtaaatactggcaactccagtacc	AA139854
96822	tggcaactccagtaccacggccact	AA139854
96823	caccctgaatcatgaaatcctttat	AA139854
96824	tgaaatcctttatgaccctgtgaaa	AA139854
96825	tcgtcactacaagtccatcagtgat	AA139854
96826	ttatgaccctgtgaaaggtgctctc	AA139854
96827	caagtccatcagtgattttcccaaa	AA139854
96828	gtccatcagtgattttcccaaacac	AA139854
96829	catccagccaatcacacttagaaca	AA139854
96830	gccaatcacacttagaacacgtgat	AA139854
96831	aatcacacttagaacacgtgataaa	AA139854
96832	cacacttagaacacgtgataaagaa	AA139854
96833	actggcagccatttgtactgggacc	AA139854
96834	cgacattcctgggaacgagtctcag	AA139896
96835	tcctgggaacgagtctcaggaggcg	AA139896
96836	cctgatggccacattttcttggaag	AA139896

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11629	agttgtgagctcggaacccgtgaag	W55192	54233	tttgctttcccacgactctcagact	Z19543	96837	cacattttcttggaagccttctctc	AA139896
11630	gttgtgagctcggaacccgtgaagg	W55192	54234	aagccagatgtgaccccaacgcctg	Z19543	96838	attttcttggaagccttctctccag	AA139896
11631	ttgtgagctcggaacccgtgaaggc	W55192	54235	agttgttcacgcaaggagctggacc	AA048435	96839	ttcttggaagccttctctccagttt	AA139896
11632	tgtgagctcggaacccgtgaaggcc	W55192	54236	gttgttcacgcaaggagctggacca	AA048435	96840	ttggaagccttctctccagtttaca	AA139896
11633	gaccagaccctctcttttgaccat	W55192	54237	caggtcaagatcctgctgcgagaag	AA048435	96841	gaagccttctctccagtttacaaat	AA139896
11634	accctctcttttgaccatcaagtg	W55192	54238	aggtcaagatcctgctgcgagaagg	AA048435	96842	gccttctctccagtttacaaatatg	AA139896
11635	tttctcttccgcgtcactcgagttg	W55192	54239	ggtcaagatcctgctgcgagaaggc	AA048435	96843	ttctctccagtttacaaatatgccc	AA139896
11636	ttctcttccgcgtcactcgagttgt	W55192	54240	gtcaagatcctgctgcgagaaggct	AA048435	96844	tacaaatatgcccaagacttcctgg	AA139896
11637	tctcttccgcgtcactcgagttgtg	W55192	54241	caagatcctgctgcgagaaggctac	AA048435	96845	tatgcccaagacttcctggtggcaa	AA139896
11638	ctcttccgcgtcactcgagttgtga	W55192	54242	aagatcctgctgcgagaaggctaca	AA048435	96846	tccgccgctgggaaacaggtggacg	AA139896
11639	tcttccgcgtcactcgagttgtgag	W55192	54243	agatcctgctgcgagaaggctacag	AA048435	96847	gcccaagacttcctggtggcaattg	AA139896
11640	cttccgcgtcactcgagttgtgagc	W55192	54244	gatcctgctgcgagaaggctacaga	AA048435	96848	gacgagtccagcaccaaagtggatg	AA139896
11641	ccgcgtcactcgagttgtgagctcg	W55192	54245	atcctgctgcgagaaggctacagag	AA048435	96849	gagtccagcaccaaagtggatgagt	AA139896
11642	cgtcactcgagttgtgagctcggaa	W55192	54246	tcctgctgcgagaaggctacagaga	AA048435	96850	tccagcaccaaagtggatgagtatg	AA139896
11643	cagctctgaacagatcatgaagaca	L22472	54247	ttgttcacgcaaggagctggaccag	AA048435	96851	tacagacagcagatgccactaaagg	AA139896
11644	ctttttgctacagggtttcatccag	L22472	54248	gttcacgcaaggagctggaccagtg	AA048435	96852	agacagcagatgccactaaagggtg	AA139896
11645	caaactggtgctcaaggccctgtgc	L22472	54249	ttcacgcaaggagctggaccagtgg	AA048435	96853	cagcagatgccactaaagggtgacc	AA139896
11646	ggtgctcaaggccctgtgcactaaa	L22472	54250	ccgagtcccaggtcaagatcctgct	AA048435	96854	ctctgggtggctcctgatggccaca	AA139896
11647	cactaaagtgcccgagctgatcaga	L22472	54251	cgagtcccaggtcaagatcctgctg	AA048435	96855	ctttaagtctacagatgcagagtga	D00812
11648	agtgcccgagctgatcagaaccatc	L22472	54252	agtcccaggtcaagatcctgctgcg	AA048435	96856	gtttcctgggtgcctggaatctgtc	D00812
11649	aaccatcatgggctggacactggac	L22472	54253	cccaggtcaagatcctgctgcgaga	AA048435	96857	gcttcagcttgcttgagagcgactg	D00812
11650	ctggacactggacttcctccgtgag	L22472	54254	ccaggtcaagatcctgctgcgagaa	AA048435	96858	gcttgcttgagagcgactgttctcc	D00812
11651	actggacttcctccgtgagcggctg	L22472	54255	gctgcaaaggctgctcctgctgctg	X52914	96859	agagcgactgttctccaaggcttcg	D00812
11652	ctggatccaagaccagggtggctgg	L22472	54256	gggccttcaggagccctggttcatc	X52914	96860	gttctccaaggcttcgtgttgagga	D00812
11653	catctttgtggctggagtcctcacc	L22472	54257	cacgttccagtggatgtctggctgt	X52914	96861	ctccaaggcttcgtgttgaggacaa	D00812
11654	gctcaccatctggaagaagatgggc	L22472	54258	ccagtggatgtctggctgtgacctc	X52914	96862	cctctgccagtttgcgctgcctctg	D00812
11655	gggtttcatccaggatcgagcaggg	L22472	54259	aacacgtgaactgtggcggacatgg	X52914	96863	ccagtttgcgctgcctctgggtctg	D00812
11656	catccaggatcgagcagggaggatg	L22472	54260	atcacccgacacaactgccaggagg	X52914	96864	tcggaattgcactttccttcccttg	D00812
11657	gccccaggatgcgtccaccaagaag	L22472	54261	acccgacacaactgccaggaggctg	X52914	96865	gaattgcactttccttcccttgtct	D00812
11658	cgagtgtctccggcgaattggagat	L22472	54262	cgacacaactgccaggaggctggtg	X52914	96866	gcctcgtgcggctgagagaaagaaa	D00812
11659	ggtcttcttccgggtggcagctgac	L22472	54263	cacaactgccaggaggctggtgctg	X52914	96867	cctggaatctgtccagctgggcctg	D00812
11660	ggttgccctcttctactttgctagc	L22472	54264	caactgccaggaggctggtgctgca	X52914	96868	ctctgcggctttggccagaggttct	D00812
11661	ctactttgctagcaaactggtgctc	L22472	54265	aactgccaggaggctggtgctgcag	X52914	96869	tcactcagctgaagtccttttggaa	D00812
11662	tgctagcaaactggtgctcaaggcc	L22472	54266	actgccaggaggctggtgctgcaga	X52914	96870	tgttgcttgttgtttagaggttcag	D00812
11663	atgtgattcttgtcatggtaaatac	M19413	54267	ccttcaggagccctggttcatctct	X52914	96871	aattccaataagctagtcaggactc	D00812
11664	catggcttgctgcctattgtaccac	M19413	54268	tccgagatacgagcctcgtgtgtcg	X52914	96872	aagctagtcaggactccaggatggg	D00812
11665	tggtccctggagcaacctggccaag	M19413	54269	gagatacgagcctcgtgtgtcgtgg	X52914	96873	ctagtcaggactccaggatgggtgg	D00812
11666	ggctcctgtagaccacaagtttgat	M19413	54270	gatacagatcgccaagagcaatgag	X52914	96874	agaggaacactgccaagatgtcagg	D00812
11667	tcctgtagaccacaagtttgatctg	M19413	54271	acagatcgccaagagcaatgagcag	X52914	96875	ggtccctagctcatggcagtctaga	X12592
11668	tactagttgctgcatcatgttcagt	M19413	54272	gaacgcgctgcgctactacaaccag	X52914	96876	tagctcatggcagtctagacccagc	X12592
11669	ttgctgcatcatgttcagttccagc	M19413	54273	cgcgctgcgctactacaaccagagc	X52914	96877	tttaggctttgcttcttagatcatg	X12592
11670	ctgcatcatgttcagttccagcatt	M19413	54274	ctctcacacgttccagtggatgtct	X52914	96878	ctttgcttcttagatcatgtagtat	X12592
11671	catcatgttcagttccagcattggt	M19413	54275	aaaccttgcataagtcctcattcta	X13605	96879	ccttttgcctcagacttactgcta	X12592
11672	gttcagttccagcattggtaacagg	M19413	54276	ataagtcctcattctaccacatgtt	X13605	96880	tgcctcagacttactgctacagtta	X12592
11673	cagttccagcattggtaacaggcat	M19413	54277	tctattactaatctagttagtgcag	X13605	96881	agacttactgctacagttataggca	X12592
11674	ttccagcattggtaacaggcatcca	M19413	54278	tgtgtttggtcttaggcctagattg	X13605	96882	ataggcatgtgccttcatgcctagc	X12592
11675	ggcttgctgcctattgtaccacagt	M19413	54279	agaacacagcttcaacttcttggac	X13605	96883	cttcatgcctagctggcgtatatca	X12592
11676	ctgcctattgtaccacagtggtatg	M19413	54280	acacagcttcaacttcttggacctc	X13605	96884	tatatcaatctacataatgttctca	X12592
11677	gattcccaaagatatccatgctgct	M19413	54281	ggacctctgccaatgaagatgggtt	X13605	96885	aatctacataatgttctcaaggtgg	X12592
11678	caccaccaagaccaggtgcagcatc	M19413	54282	cctctgccaatgaagatgggttagg	X13605	96886	cataatgttctcaaggtggaactgt	X12592
11679	taattaccagcctcactgtggtccc	M19413	54283	taggttacacctggttactatactg	X13605	96887	ccaccataccttgctctttctactg	X12592
11680	ttaccagcctcactgtggtccctgg	M19413	54284	gttacacctggttactatactggca	X13605	96888	aagacatctaattatcctttggcct	X12592
11681	ccagcctcactgtggtccctggagc	M19413	54285	tatactggcaaaatccctttttatag	X13605	96889	agtataaacttcactagcactgaaa	X12592
11682	tcactgtggtccctggagcaacctg	M19413	54286	ggcaaaatccctttttatagagatgg	X13605	96890	tttggatctgaccaatacaatccct	X12592
11683	acgggacccctagtcagctctcgag	W55000	54287	agtcctcattctaccacatgttcac	X13605	96891	caatacaatcccttactctgagttc	X12592
11684	agctctcgagttctcgagtgtcggg	W55000	54288	cctcattctaccacatgttcactaa	X13605	96892	ttactctgagttctaagtctttggt	X12592
11685	aaactccaatgccacttcactctga	W55000	54289	tctaccacatgttcactaacccctg	X13605	96893	ctttggtagccattccattctctgc	X12592
11686	tgccacttcactctgatcctcctga	W55000	54290	gaccctctggctggtaacacaacac	X13605	96894	tagccattccattctctgcttggag	X12592
11687	atcctcctgacagctctaaggggag	W55000	54291	aagctattcacaccagcatcatcta	X13605	96895	ttccattctctgcttggagttcagc	X12592
11688	gagagccgctacctagaggtgcaag	W55000	54292	ttcacaccagcatcatctattacta	X13605	96896	aaattcttcagctgcaagaggagct	AA139958
11689	caagaagccgcagtctacgaccctt	W55000	54293	acaccagcatcatctattactaatc	X13605	96897	attcttcagctgcaagaggagctgg	AA139958
11690	gcagtctacgacccttttcctgcttt	W55000	54294	tcatctattactaatctagttagtg	X13605	96898	cgccaacagcgcctctggaaagtct	AA139958
11691	tacgacccttttcctgcttttcagcg	W55000	54295	tatgaatgggggcaccgtggaacag	AA048413	96899	aacagcgcctctggaaagtctgcgc	AA139958
11692	ccttttcctgcttttcagcggcaatt	W55000	54296	caccgtggaacagctgctcagctcc	AA048413	96900	gcctctggaaagtctgcgctgttgg	AA139958
11693	ttcctgcttttcagcggcaatttga	W55000	54297	agacctcacatccaagaactgtctg	AA048413	96901	ctctggaaagtctgcgctgttggat	AA139958
11694	ctgcttttcagcggcaatttgaaac	W55000	54298	cctcacatccaagaactgtctggtc	AA048413	96902	ctggaaagtctgcgctgttggatga	AA139958
11695	cgcagccgagcttaacaagctgcag	W55000	54299	cacatccaagaactgtctggtccga	AA048413	96903	ggaaagtctgcgctgttggatgaga	AA139958
11696	taacaagctgcagacacaaggccag	W55000	54300	caagaactgtctggtccgaaggaag	AA048413	96904	aaagtctgcgctgttggatgagaag	AA139958

TABLE 1

SEQ ID NO	sequence	DBAxnID
11697	caagctgcagacacaaggccagcca	W55000
11698	gctgcagacacaaggccagccatgt	W55000
11699	gacacaaggccagccatgtcaccga	W55000
11700	acaaggccagccatgtcaccgaact	W55000
11701	aggccagccatgtcaccgaacttca	W55000
11702	aacttcaaactccaatgccacttca	W55000
11703	caggatgccactgctgaagagggcg	M28730
11704	gtggcttaagtctcctgccatcact	M28730
11705	atgagcatcttcaccatgaggccaa	M28730
11706	agcatcttcaccatgaggccaagcc	M28730
11707	atcttcaccatgaggccaagcccag	M28730
11708	ttcaccatgaggccaagcccaggtt	M28730
11709	accatgaggccaagcccaggttgct	M28730
11710	aggccaagcccaggttgcttctatt	M28730
11711	ccaagcccaggttgcttctatttgc	M28730
11712	agcccaggttgcttctatttgcttc	M28730
11713	tgcttctatttgcttcacctttaac	M28730
11714	caacacatgtacacacgcacacaca	M28730
11715	gcttaagtctcctgccatcactctg	M28730
11716	taagtctcctgccatcactctgtcc	M28730
11717	tctgtccctggggcccaccagcaaa	M28730
11718	gcccaccagcaaagctttgacccta	M28730
11719	caccagcaaagctttgaccctaagc	M28730
11720	cagcaaagctttgaccctaagcatc	M28730
11721	caaagctttgaccctaagcatcaca	M28730
11722	agctttgaccctaagcatcacaccc	M28730
11723	gactcaacccttggcggcctgcac	W55211
11724	actcaacccttggcggcctgcaca	W55211
11725	cagtcgtctgcggccccgaaagcag	W55211
11726	agtcgtctgcggccccgaaagcagg	W55211
11727	tctgcggccccgaaagcaggcaccg	W55211
11728	ccgaaagcaggcaccgcaccgggca	W55211
11729	cgaaagcaggcaccgcaccgggcaa	W55211
11730	gaaagcaggcaccgcaccgggcaaa	W55211
11731	gcaggcaccgcaccgggcaaattgt	W55211
11732	caggcaccgcaccgggcaaattgtg	W55211
11733	aggcaccgcaccgggcaaattgtgg	W55211
11734	cgcaccgggcaaattgtggcagtca	W55211
11735	cctgcacagcgcatcttctactacg	W55211
11736	ctgcacagcgcatcttctactacga	W55211
11737	tgcacagcgcatcttctactacgaa	W55211
11738	gcacagcgcatcttctactacgaac	W55211
11739	acagcgcatcttctactacgaaccg	W55211
11740	cagcgcatcttctactacgaaccgc	W55211
11741	agcgcatcttctactacgaaccgct	W55211
11742	gcgcatcttctactacgaaccgctc	W55211
11743	acagtgatcctagctggcccaggcg	W55242
11744	agtgatcctagctggcccaggcggc	W55242
11745	gacttcggctccttgaggagttggc	W55242
11746	ctccttgaggagttggcggcgcacg	W55242
11747	gcattgatgtccagatctcgccgct	W55242
11748	attgatgtccagatctcgccgctgt	W55242
11749	gtccagatctcgccgctgtccaaga	W55242
11750	ccagatctcgccgctgtccaagaaa	W55242
11751	gtcttcagtgccaaccaacgggaat	W55242
11752	cttcagtgccaaccaacgggaatgg	W55242
11753	tcagtgccaaccaacgggaatggcg	W55242
11754	tgccaaccaacgggaatggcgaaga	W55242
11755	tgatcctagctggcccaggcggcag	W55242
11756	atcctagctggcccaggcggcaggg	W55242
11757	cggcacgagcttgacttcggctcct	W55242
11758	gcacgagcttgacttcggctccttg	W55242
11759	acgagcttgacttcggctccttgag	W55242
11760	gagcttgacttcggctccttgagga	W55242
11761	gcttgacttcggctccttgaggagt	W55242
11762	ttgacttcggctccttgaggagttg	W55242
11763	gccggtacctcacagttgccgccgt	X04663
11764	ccaccgcgtggcctcaagatggcag	X04663

SEQ ID NO	sequence	DBAxnID
54301	gaccgaggcttcacagctgttgtgg	AA048413
54302	cgaggcttcacagctgttgtgggtg	AA048413
54303	ggcttcacagctgttgtgggtgact	AA048413
54304	ttcacagctgttgtgggtgacttcg	AA048413
54305	ggtgacttcggactggctgagaaga	AA048413
54306	gacttcggactggctgagaagattc	AA048413
54307	ggaacagctgctcagctccccagaa	AA048413
54308	ccacctagccctggacattgcacaa	AA048413
54309	cctagccctggacattgcacaaggc	AA048413
54310	agccctggacattgcacaaggccta	AA048413
54311	ggacattgcacaaggcctacggtac	AA048413
54312	cattgcacaaggcctacggtaccta	AA048413
54313	tgcacaaggcctacggtacctacac	AA048413
54314	ccgagacctcacatccaagaactgt	AA048413
54315	gaaagcatcccatttgcggtgattg	X61452
54316	atcccatttgcggtgattggcagca	X61452
54317	agtggtactgacttccctatccctg	X61452
54318	ccaccagggacagatccagaaactg	X61452
54319	gagactcactaactggcttttggac	X61452
54320	cactaactggcttttggacctgaat	X61452
54321	ttcttcctgcctatgccagcctcta	X61452
54322	gcctctattccctgcatcagctctg	X61452
54323	attccctgcatcagctctgctcagg	X61452
54324	ccagttcgccttatatccctgctga	X61452
54325	cgccttatatccctgctgacttctc	X61452
54326	acttctcaagagactcagaggaaat	X61452
54327	ctctacccttggggcatcgtggaag	X61452
54328	ggtcactgcgactttgtcaagttga	X61452
54329	tgcgactttgtcaagttgaggacga	X61452
54330	atgctggtgcgtacccacatgcagg	X61452
54331	gtgacccgagagacacactacgaga	X61452
54332	aactacagggcacagtgtatccaga	X61452
54333	atccagagcatgacccggctagtag	X61452
54334	agcatgacccggctagtagtgaagg	X61452
54335	ggcgcgacaccattgcctacctggc	AA048650
54336	gcgagcctcgtactcgctcttcagg	AA048650
54337	agttgttacagggcactgatggaat	AA048650
54338	tgttacagggcactgatggaattgg	AA048650
54339	ttacagggcactgatggaattggaa	AA048650
54340	agattgtcctgatcagcaggtccca	AA048650
54341	attgtcctgatcagcaggtcccaag	AA048650
54342	ttgtcctgatcagcaggtcccaaga	AA048650
54343	gtcctgatcagcaggtcccaagata	AA048650
54344	tcagcaggtcccaagataaactgaa	AA048650
54345	gcaggtcccaagataaactgaatca	AA048650
54346	aatcaggtttccaacaacatcaaag	AA048650
54347	gagcctcgtactcgctcttcagggc	AA048650
54348	atcaggtttccaacaacatcaaaga	AA048650
54349	agcctcgtactcgctcttcagggcc	AA048650
54350	ctcgtactcgctcttcagggccttc	AA048650
54351	cgtactcgctcttcagggccttcca	AA048650
54352	cggtccgcgactcggagaatgggca	AA048650
54353	gtccgcgactcggagaatgggcagt	AA048650
54354	tccgcgactcggagaatgggcagtt	AA048650
54355	cagttgttacagggcactgatggaa	AA048650
54356	tgactttgaaaacctcgatgcacct	U29875
54357	aacagctgggcttacgggcatgcta	U29875
54358	attggacatgctgaaactggaggat	U29875
54359	tgtagcccttgtgtggttcctcttgt	U29875
54360	cctgtgtggttcctcttgtcacctc	U29875
54361	aaagcaactgctgggtatggtgctg	U29875
54362	gcgtgcctggaacctcagtattcag	U29875
54363	tgcctggaacctcagtattcaggag	U29875
54364	cctcagtattcaggaggctgaggca	U29875
54365	cagtattcaggaggctgaggcagag	U29875
54366	acttcaaggccagcctgggcaactt	U29875
54367	ccagcctgggcaacttcaggaaatg	U29875
54368	agctgggcttacgggcatgctatat	U29875

SEQ ID NO	sequence	DBAxnID
96905	aagtctgcgctgttggatgagaagc	AA139958
96906	agtctgcgctgttggatgagaagcg	AA139958
96907	gcgcggatccacagctggaagagga	AA139958
96908	tcttcagctgcaagaggagctggcc	AA139958
96909	aggagctggcctcatccgagcgagc	AA139958
96910	cgccgacacgcagagcaggagcgag	AA139958
96911	ccgacacgcagagcaggagcgagac	AA139958
96912	gacacgcagagcaggagcgagacga	AA139958
96913	tgagatcgccaacagcgcctctgga	AA139958
96914	agatcgccaacagcgcctctggaaa	AA139958
96915	atcgccaacagcgcctctggaaagt	AA139958
96916	ctcgcaccttcacgcggacgagtca	AA139804
96917	cgcaccttcacgcggacgagtcata	AA139804
96918	ctgctgttttcggcgattttctagg	AA139804
96919	ggaacgcctgggctccttcggcagc	AA139804
96920	ttcggcagcatcacccggcagcagg	AA139804
96921	gcagcatcacccggcagcaggaagg	AA139804
96922	agcatcacccggcagcaggaaggtg	AA139804
96923	catcacccggcagcaggaaggtgag	AA139804
96924	tcacccggcagcaggaaggtgaggc	AA139804
96925	acccggcagcaggaaggtgaggcca	AA139804
96926	gaggccagctctcaggacatgacag	AA139804
96927	ggccagctctcaggacatgacagcc	AA139804
96928	caccttcacgcggacgagtcatacg	AA139804
96929	ccttcacgcggacgagtcatacgta	AA139804
96930	ttcacgcggacgagtcatacgtaca	AA139804
96931	cgagtcatacgtacacccgcacaga	AA139804
96932	agtcatacgtacacccgcacagagc	AA139804
96933	tcatacgtacacccgcacagagcgg	AA139804
96934	atacgtacacccgcacagagcggac	AA139804
96935	gtacacccgcacagagcggacagag	AA139804
96936	gtttgctggaggctccctcatcagc	AA140029
96937	cagccaccgatgggtgttgactgcg	AA140029
96938	cctggtcccagtccaggacatcatt	AA140029
96939	ggtcccagtccaggacatcattttc	AA140029
96940	cccagtccaggacatcattttccct	AA140029
96941	ttccaactttgacattcaaaccatg	AA140029
96942	ctttgacattcaaaccatgaggaat	AA140029
96943	cattgcccttgctctgctgtacttc	AA140029
96944	tctgctgtacttccccgtgaattac	AA140029
96945	cgtgaattactcctcgctcatccag	AA140029
96946	ccagcccgtgtgcattcccgaagag	AA140029
96947	gtgcattcccgaagagcccttccga	AA140029
96948	ccaccgatgggtgttgactgcggcc	AA140029
96949	gttgactgcggcccactgcatatat	AA140029
96950	tgcggcccactgcatatatgagcag	AA140029
96951	ggcccactgcatatatgagcaggag	AA140029
96952	tgacgacatgctgcattctgaatct	AA140029
96953	catgctgcattctgaatctgaaagt	AA140029
96954	aagtgtgaccctggtcccagtccag	AA140029
96955	tgtgaccctggtcccagtccaggac	AA140029
96956	gtgagtttccatggcaggtgagcat	AA140046
96957	agtttccatggcaggtgagcattca	AA140046
96958	tggcccactgcttctatgctcagca	AA140046
96959	cccactgcttctatgctcagcagct	AA140046
96960	actgcttctatgctcagcagctttc	AA140046
96961	gcttctatgctcagcagctttcccc	AA140046
96962	tctatgctcagcagctttccccaac	AA140046
96963	atgctcagcagctttccccaacaga	AA140046
96964	ctcagcagctttccccaacagatct	AA140046
96965	agcagctttccccaacagatctcag	AA140046
96966	agctttccccaacagatctcagatt	AA140046
96967	tttccccaacagatctcagattcgg	AA140046
96968	aaagtgaccaccatttctgcggcgg	AA140046
96969	ttccccaacagatctcagattcgga	AA140046
96970	accatttctgcggcggctccattct	AA140046
96971	atttctgcggcggctccattctcag	AA140046
96972	ccattctcagtaagtgttggatcct	AA140046

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
11765	cctaacggcagagagccctgcatca	X04663	54369	tgggcttacgggcatgctatataca	U29875	96973	gttggatcctaaccgtggcccactg	AA140046
11766	gctgcttagatccctcagcctttct	X04663	54370	ctaggcaagtgctgtgctgagttac	U29875	96974	ggatcctaaccgtggcccactgctt	AA140046
11767	ctgcttagatccctcagcctttctc	X04663	54371	cccagaggacacactgtctgggtat	U29875	96975	tcctaaccgtggcccactgcttcta	AA140046
11768	tgcttagatccctcagcctttctcc	X04663	54372	agaggacacactgtctgggtatggc	U29875	96976	ccgtggcccactgcttctatgctca	AA140046
11769	gcttagatccctcagcctttctcca	X04663	54373	taattccagtgcttctggattggac	U29875	96977	gatgacactcatgccgacctgcata	AA140011
11770	ttagatccctcagcctttctccaac	X04663	54374	cagtgcttctggattggacatgctg	U29875	96978	tgacactcatgccgacctgcatacg	AA140011
11771	tagatccctcagcctttctccaact	X04663	54375	tgcttctggattggacatgctgaaa	U29875	96979	gatgacctgtctctggaaataatcc	AA140011
11772	tccaactgccctttgtcctccagtt	X04663	54376	tatactagctgcccactctggggca	X85124	96980	tgacctgtctctggaaataatcctg	AA140011
11773	tgcttctgttttctcattgggggta	X04663	54377	ttggtcctcaagttattcagcaccc	X85124	96981	acctgtctctggaaataatcctgca	AA140011
11774	caccgcgtggcctcaagatggcagt	X04663	54378	tcagacatcattagttccgacactt	X85124	96982	ggaaataatcctgcatcgttgctcc	AA140011
11775	accgcgtggcctcaagatggcagtc	X04663	54379	atcattagttccgacacttgtgaaa	X85124	96983	ataatcctgcatcgttgctccttga	AA140011
11776	ccgcgtggcctcaagatggcagtca	X04663	54380	gacacttgtgaaactccgagacgtg	X85124	96984	aatcctgcatcgttgctccttgagc	AA140011
11777	catctctgagcagtttacggctatg	X04663	54381	actccgagacgtgccgtggtctcag	X85124	96985	tcctgcatcgttgctccttgagcct	AA140011
11778	atctctgagcagtttacggctatgt	X04663	54382	agacgtgccgtggtctcagcaatgc	X85124	96986	gacacaaatcagagcattcagtgag	AA140011
11779	tctctgagcagtttacggctatgtt	X04663	54383	gtctcagcaatgcacctgttttata	X85124	96987	cacaaatcagagcattcagtgaggg	AA140011
11780	ctctgagcagtttacggctatgttc	X04663	54384	atctatatctatcagttgtgaccgt	X85124	96988	aatcagagcattcagtgagggagag	AA140011
11781	aggcctaacggcagagagccctgca	X04663	54385	atctatcagttgtgaccgtatggct	X85124	96989	acactcatgccgacctgcatacgta	AA140011
11782	ggcaaacactgaacgcagtctcgca	W55260	54386	cagttgtgaccgtatggctgtcgat	X85124	96990	atgccgacctgcatacgtagtacac	AA140011
11783	gcaaacactgaacgcagtctcgcag	W55260	54387	tgaccgtatggctgtcgataaaacc	X85124	96991	gccgacctgcatacgtagtacacta	AA140011
11784	tcgcagacgtgctacattgcagtgg	W55260	54388	tgattcctggtgttagggcacctca	X85124	96992	cgacctgcatacgtagtacactagt	AA140011
11785	cgcagacgtgctacattgcagtggc	W55260	54389	ttagggcacctcaaaccttgggctg	X85124	96993	acctgcatacgtagtacactagtgg	AA140011
11786	cagacgtgctacattgcagtggcac	W55260	54390	ttgatgctgcacgggaccctgcagg	X85124	96994	atacgtagtacactagtggacgcag	AA140011
11787	agacgtgctacattgcagtggcacg	W55260	54391	ggctcggtcagtgatgtgttttgtc	X85124	96995	tacactagtggacgcagatgacctg	AA140011
11788	gacgtgctacattgcagtggcacgg	W55260	54392	cagcgacctggttccaggaggagct	X85124	96996	cagatgacctgtctctggaaataat	AA140011
11789	acgtgctacattgcagtggcacggg	W55260	54393	cactgcgtctgccgccctaggcttt	X85124	96997	acaacaatgaccatggcatagtcac	AA140156
11790	cgtgctacattgcagtggcacgggc	W55260	54394	gtctgccgccctaggctttcagaca	X85124	96998	atgaccatggcatagtcaccgacat	AA140156
11791	ccgtcagtccatatcatttgggacc	W55260	54395	cgccctaggctttcagacatcatta	X85124	96999	gaacccagagagacaccaaacaatg	AA140156
11792	gtcagtccatatcatttgggaccaa	W55260	54396	gagtaccattggggctgcctttcta	W89699	97000	cccagagagacaccaaacaatgcat	AA140156
11793	tcagtccatatcatttgggaccaaa	W55260	54397	ggctgcctttctaacccaaactgtg	W89699	97001	gagacaccaaacaatgcatcatgaa	AA140156
11794	caaacactgaacgcagtctcgcagg	W55260	54398	tagcaccaatgtactaccgaggagc	W89699	97002	gcatcatgaaacacagctaaaccca	AA140156
11795	aacactgaacgcagtctcgcagggt	W55260	54399	accaatgtactaccgaggagcacaa	W89699	97003	gaaacatacgatatgcctgactgta	AA140156
11796	cagtctcgcagggtaagcccgaggc	W55260	54400	gtactaccgaggagcacaagcagcc	W89699	97004	tacgatatgcctgactgtatgtggc	AA140156
11797	agtctcgcagggtaagcccgaggca	W55260	54401	actaccgaggagcacaagcagccat	W89699	97005	gatatgcctgactgtatgtggccta	AA140156
11798	gctagacgtgggctcgcagacgtgc	W55260	54402	agcacaagcagccatagttgtgtat	W89699	97006	gactgtatgtggcctacagacaatc	AA140156
11799	ggctcgcagacgtgctacattgcag	W55260	54403	cacaagcagccatagttgtgtatga	W89699	97007	tgtatgtggcctacagacaatctgt	AA140156
11800	gctcgcagacgtgctacattgcagt	W55260	54404	agcagccatagttgtgtatgatatc	W89699	97008	atgtggcctacagacaatctgtata	AA140156
11801	ctcgcagacgtgctacattgcagtg	W55260	54405	tgaggaatcctttgcgagagcaaaa	W89699	97009	accatggcatagtcaccgacatgag	AA140156
11802	ctgcaccacggatcgcctctcggat	W55265	54406	atcctttgcgagagcaaaaaactgg	W89699	97010	tggcctacagacaatctgtataata	AA140156
11803	tcgcctctcggatgccgctagcctg	W55265	54407	gcaagcaagtcctaatattgtgata	W89699	97011	atggcatagtcaccgacatgagttg	AA140156
11804	tgctatgaccggcaaactcgccgag	W55265	54408	ctgcctttctaacccaaactgtgtg	W89699	97012	gcatagtcaccgacatgagttgacg	AA140156
11805	ctatgaccggcaaactcgccgagaa	W55265	54409	ttctaacccaaactgtgtgtcttga	W89699	97013	tcaccgacatgagttgacgtgggga	AA140156
11806	gaccggcaaactcgccgagaagctg	W55265	54410	aacccaaactgtgtgtcttgatgac	W89699	97014	agagatcttagccccatacatacat	AA140156
11807	ccggcaaactcgccgagaagctgcc	W55265	54411	cccaaactgtgtgtcttgatgacac	W89699	97015	agccccatacatacatccaatagag	AA140156
11808	ggcaaactcgccgagaagctgccgg	W55265	54412	atacagctggtcaagaacggtatca	W89699	97016	atacatacatccaatagagaacagt	AA140156
11809	caaactcgccgagaagctgccggtg	W55265	54413	tcatagcttagcaccaatgtactac	W89699	97017	acatccaatagagaacagtgtgaac	AA140156
11810	cgccgagaagctgccggtgaccatg	W55265	54414	atagcttagcaccaatgtactaccg	W89699	97018	acagccagtggtggatggtgccttc	AA140159
11811	gagaagctgccggtgaccatgagca	W55265	54415	cttagcaccaatgtactaccgagga	W89699	97019	ggatatctagctttcgtactatcga	AA140159
11812	gaagctgccggtgaccatgagcagt	W55265	54416	gcctccctggtatcgagcacagaaa	Z32675	97020	acacatgagtgtcccacggagatta	AA140159
11813	agctgccggtgaccatgagcagttt	W55265	54417	acagaaagatttcctctcaggcctg	Z32675	97021	tgtcccacggagattatcgcgataa	AA140159
11814	gcctctcggatgccgctagcctgga	W55265	54418	gcactttctgtctcctgagacctct	Z32675	97022	attatcgcgataagcgactatgctt	AA140159
11815	cggatgccgctagcctggaagctgc	W55265	54419	ctctgctcagctctaccaccaggga	Z32675	97023	ataagcgactatgcttgagacttcc	AA140159
11816	tgccgctagcctggaagctgcgtta	W55265	54420	tcagctctaccaccagggagccagc	Z32675	97024	gactatgcttgagacttccgaaatg	AA140159
11817	gctagcctggaagctgcgttaggaa	W55265	54421	ccctgaccaccgtatgctttatgcc	Z32675	97025	tatgcttgagacttccgaaatgcta	AA140159
11818	tagcctggaagctgcgttaggaaca	W55265	54422	tatgctttatgcccagatggaccgg	Z32675	97026	tgagacttccgaaatgctacgctgc	AA140159
11819	gcctggaagctgcgttaggaacagg	W55265	54423	ttatgcccagatggaccgggctgtg	Z32675	97027	gacttccgaaatgctacgctgcgat	AA140159
11820	ctgtagctcgggagtgctatgaccg	W55265	54424	ccagatggaccgggctgtgttccaa	Z32675	97028	ttccgaaatgctacgctgcgatgag	AA140159
11821	agtgctatgaccggcaaactcgccg	W55265	54425	ggaccgggctgtgttccaagcagta	Z32675	97029	cgaaatgctacgctgcgatgagctg	AA140159
11822	agataaaactcccataagtgaagat	L08394	54426	gttccaagcagtaaaggcggctgtg	Z32675	97030	gctttcgtactatcgagcggcgtaa	AA140159
11823	tattcaagagaccaatattgcttaa	L08394	54427	tgtccagtctgcataatatcaacag	Z32675	97031	ttcgtactatcgagcggcgtaagtg	AA140159
11824	gactcattcccagatggacaggaca	L08394	54428	gtctccagggagccagaccagcact	Z32675	97032	gtactatcgagcggcgtaagtggtg	AA140159
11825	cattcccagatggacaggacatgtc	L08394	54429	tcgctttctccagatggtgtgccca	Z32675	97033	agtggtgctctctatgacctcactg	AA140159
11826	tgttacagcctagtagttgagaaaa	L08394	54430	agcaggaaccttggagcctggtgcc	Z32675	97034	ggtgctctctatgacctcactgaat	AA140159
11827	atataaactttgttgccaggattat	L08394	54431	cccaggcagctgctacttggatgca	Z32675	97035	gctctctatgacctcactgaattca	AA140159
11828	caaacaagcaagcaaaaccctgtca	L08394	54432	cagctgctacttggatgcagggttg	Z32675	97036	tatgacctcactgaattcacacatg	AA140159
11829	caagcaagcaaaaccctgtcaataa	L08394	54433	cctgctgcaggctcctggggaagcg	Z32675	97037	gacctcactgaattcacacatgagt	AA140159
11830	agcaagcaaaaccctgtcaataata	L08394	54434	cagtgtcactcagcactttctgtct	Z32675	97038	atcaacttgtctctttgccccttg	M36516
11831	caagcaaaaccctgtcaataatagg	L08394	54435	cactcagcactttctgtctcctgag	Z32675	97039	tgccccttgttcattcttgtccct	M36516
11832	agcaaaaccctgtcaataataggcg	L08394	54436	atcctgctctttgacctcatctacc	AA048539	97040	aaacctcatgaatctaagaaatgtt	M36516

TABLE 1

SEQ ID NO	sequence	DBAxnID
11833	accctgtcaataataggcggccgcg	L08394
11834	agttatcacaagctggtggcaagct	L08394
11835	gtcaataataggcggccgcgaattc	L08394
11836	ttatcacaagctggtggcaagctac	L08394
11837	atcacaagctggtggcaagctacaa	L08394
11838	gctacaaaagacctgactcattccc	L08394
11839	tacaaaagacctgactcattcccag	L08394
11840	agacctgactcattcccagatggac	L08394
11841	acctgactcattcccagatggacag	L08394
11842	ctgactcattcccagatggacagga	L08394
11843	aggcgtctcaggtgcaaactgtatc	W55270
11844	cgtctcaggtgcaaactgtatcagc	W55270
11845	cacatagatgctgtctcaattagat	W55270
11846	atagatgctgtctcaattagatgct	W55270
11847	gatgctgtctcaattagatgctgtc	W55270
11848	gtctcaattagatgctgtcgagaga	W55270
11849	gtgtcagcttttacaagccattcta	W55270
11850	tcagcttttacaagccattctagaa	W55270
11851	gcttttacaagccattctagaagcc	W55270
11852	tttacaagccattctagaagccctt	W55270
11853	ccttctctgcagatcaccaagattc	W55270
11854	tctctgcagatcaccaagattccac	W55270
11855	ctgtatcagccaaacggtattacct	W55270
11856	ggtattacctttagaccatatgtgt	W55270
11857	attacctttagaccatatgtgtgcc	W55270
11858	agaccatatgtgtgccaacagtaag	W55270
11859	ccatatgtgtgccaacagtaagaag	W55270
11860	gatcacttaaagccattgtgatggg	W55270
11861	cacttaaagccattgtgatgggatt	W55270
11862	ttaaagccattgtgatgggattttc	W55270
11863	gaccaaattcacaagaatcagggcg	M63649
11864	acaggcccgtggacagagattccca	M63649
11865	acaggaaaggcatccctgtggactg	M63649
11866	aaggcatccctgtggactggctcca	M63649
11867	gcatccctgtggactggctccattt	M63649
11868	tccctgtggactggctccattttaa	M63649
11869	aaacgctgggatcaaactggcctgc	M63649
11870	caaactggcctgcaaatcatagtca	M63649
11871	actggcctgcaaatcatagtcagtg	M63649
11872	catcacttcctctgaaggaaaagaa	M63649
11873	atttattgatgacccatggtaaaat	M63649
11874	tattgatgacccatggtaaaatgca	M63649
11875	attcccagaggggcagcagcagacc	M63649
11876	cacctctgcattctgatagaagtct	M63649
11877	ctctgcattctgatagaagtctgaa	M63649
11878	ttcatgcatgcattctcaagaggtc	M63649
11879	atgcatgcattctcaagaggtcttg	M63649
11880	catgcattctcaagaggtcttgcca	M63649
11881	ttctcaagaggtcttgccaatcagc	M63649
11882	agaggtcttgccaatcagccactga	M63649
11883	ctttgcaccagacaggtgctagcat	W55300
11884	tgcaccagacaggtgctagcatgac	W55300
11885	tgaccaagccgaccacaatcattga	W55300
11886	gaccaagccgaccacaatcattgag	W55300
11887	accaagccgaccacaatcattgaga	W55300
11888	caagccgaccacaatcattgagaag	W55300
11889	aagccgaccacaatcattgagaaga	W55300
11890	agccgaccacaatcattgagaagaa	W55300
11891	gccgaccacaatcattgagaagaat	W55300
11892	ccgaccacaatcattgagaagaatg	W55300
11893	cgaccacaatcattgagaagaatgg	W55300
11894	ggtcgtgacactggacggaggcaaa	W55300
11895	gcaccagacaggtgctagcatgacc	W55300
11896	caccagacaggtgctagcatgacca	W55300
11897	gtgctagcatgaccaagccgaccac	W55300
11898	tgctagcatgaccaagccgaccaca	W55300
11899	gctagcatgaccaagccgaccacaa	W55300
11900	ctagcatgaccaagccgaccacaat	W55300

SEQ ID NO	sequence	DBAxnID
54437	ctgctctttgacctcatctaccgag	AA048539
54438	tcctcttcctcaaggacgacttcat	AA048539
54439	tcttcctcaaggacgacttcatcct	AA048539
54440	tgcccgggaaccactccagagccag	AA048539
54441	gccccctggggatgccacacggagc	AA048539
54442	ggatgccacacggagctgccacatt	AA048539
54443	tgccacacggagctgccacatttat	AA048539
54444	cacacggagctgccacatttatggg	AA048539
54445	gagctgccacatttatgggcacatg	AA048539
54446	ctgccacatttatgggcacatgtag	AA048539
54447	ccacatttatgggcacatgtagtgg	AA048539
54448	ctctttgacctcatctaccgagaga	AA048539
54449	gacctcatctaccgagagagacgct	AA048539
54450	tcatccttgtgtacctcttctccat	AA048539
54451	tccttgtgtacctcttctccatcgt	AA048539
54452	ttgtgtacctcttctccatcgtggg	AA048539
54453	tgtacctcttctccatcgtgggctt	AA048539
54454	tcttctccatcgtgggcttcctctt	AA048539
54455	gcttcctcttcctcaaggacgactt	AA048539
54456	caacaacaggttcgagctattgaga	X66285
54457	attgagagcctcaagcagagcatgt	X66285
54458	tatctctctcaatctcaggtttttg	X66285
54459	tctcaatctcaggtttttgagacaa	X66285
54460	agatctctcaccaaaaactgagatca	X66285
54461	ctcaccaaaactgagatcatcaatt	X66285
54462	gactggtcttacagcagtggcctgc	X66285
54463	ggcctgccatgcatagcttttata	X66285
54464	aattggggtcctcatgtttacacag	X66285
54465	ggtcctcatgtttacacagaaattt	X66285
54466	gaaatttctttgctgtctcagcctg	X66285
54467	tctttgctgtctcagcctgactcca	X66285
54468	agcctcaagcagagcatgtactcat	X66285
54469	tgtctcagcctgactccagctccag	X66285
54470	agcatgtactcattccatcataata	X66285
54471	ttccatcataataacaatccatgag	X66285
54472	cataataacaatccatgaggtagac	X66285
54473	atgttgtcactggatgcccatgaac	X66285
54474	tcactggatgcccatgaactgtgag	X66285
54475	ttgacatcaggtctcttctatctct	X66285
54476	tcaggtctcttctatctctctcaat	X66285
54477	cagtactgccagcacagctgtcgca	X68061
54478	tgccagcacagctgtcgcagatgcc	X68061
54479	gaccaccgtcatctctactgtgggc	X68061
54480	cgtcatctctactgtgggcaccatc	X68061
54481	agaggatgccccaggactggcagtg	X68061
54482	tgccccaggactggcagtgaccaga	X68061
54483	ccccaggcctggcaggactacagtc	X68061
54484	caggactacagtccagtagcttcca	X68061
54485	gccttccaagaggagcctctgtgat	X68061
54486	gagcctctgtgatattccagccgga	X68061
54487	ctgtgatattccagccggaaggaca	X68061
54488	ttgtccagacacctcttgggtttca	X68061
54489	cacagctgtcgcagatgcccagaag	X68061
54490	tgtcgcagatgcccagaagaggaag	X68061
54491	catccccgtgacgacaatagcacag	X68061
54492	agtggtcactgtcaccactagtgcc	X68061
54493	cactgtcaccactagtgccagtggc	X68061
54494	caccactagtgccagtggctccaag	X68061
54495	tagtgccagtggctccaagaccacc	X68061
54496	cagtggctccaagaccaccgtcatc	X68061
54497	tgtatctgctggcatacagaccagt	X65627
54498	catacagaccagttttaggactggt	X65627
54499	ctatcccatgccaacagggtattct	X65627
54500	catgccaacagggtattctcaataa	X65627
54501	tgactgcagtgcagcagtaattatg	X65627
54502	atttctctacattcctgaaacaatt	X65627
54503	tctctacattcctgaaacaatttttt	X65627
54504	tgttttcacaaaagcaactgtacag	X65627

SEQ ID NO	sequence	DBAxnID
97041	tgttccatatcttgctctgggtagt	M36516
97042	tcttgctctgggtagtatatctgta	M36516
97043	tagcaagccctgtatgtagtatttt	M36516
97044	ttccagaacaaaatctgcaggaata	M36516
97045	agcaacgaaaccaggtcatccacca	M36516
97046	aggtcatccaccaacattttgcctt	M36516
97047	tcatccaccaacattttgccttaga	M36516
97048	tccaccaacattttgccttagattt	M36516
97049	ttctaatatttcagcatatgagtag	M36516
97050	gttcattcttgtcccttatgagtcc	M36516
97051	tgtcccttatgagtccttcatatta	M36516
97052	cccttatgagtccttcatattacaa	M36516
97053	gtccttcatattacaaccaggttgg	M36516
97054	cttcatattacaaccaggttggatt	M36516
97055	catattacaaccaggttggattatt	M36516
97056	attaatttgctcatttaaagcttat	M36516
97057	aatttgctcatttaaagcttatatt	M36516
97058	tgaagacagtctaccgccatgagaa	AA166533
97059	agacagtctaccgccatgagaagcg	AA166533
97060	aggagtccttcaatgctgtccagga	AA166533
97061	ggagtccttcaatgctgtccaggac	AA166533
97062	gtccttcaatgctgtccaggactgg	AA166533
97063	ccttcaatgctgtccaggactgggc	AA166533
97064	cttcaatgctgtccaggactgggct	AA166533
97065	tcaatgctgtccaggactgggctac	AA166533
97066	caatgctgtccaggactgggctact	AA166533
97067	atgctgtccaggactgggctactca	AA166533
97068	tgctgtccaggactgggctactcag	AA166533
97069	tgtccaggactgggctactcagatt	AA166533
97070	agtctaccgccatgagaagcgtgtg	AA166533
97071	tctaccgccatgagaagcgtgtgaa	AA166533
97072	ctaccgccatgagaagcgtgtgaag	AA166533
97073	accgccatgagaagcgtgtgaagct	AA166533
97074	catcaccaacgaggagtccttcaat	AA166533
97075	tcaccaacgaggagtccttcaatgc	AA166533
97076	caccaacgaggagtccttcaatgct	AA166533
97077	ccaacgaggagtccttcaatgctgt	AA166533
97078	tggggcttctgaccattctgaagaa	W64156
97079	ggcttctgaccattctgaagaagat	W64156
97080	gacactgggcttcaacatcaagacc	W64156
97081	actgggcttcaacatcaagaccctg	W64156
97082	gggcttcaacatcaagaccctggag	W64156
97083	caacatcaagaccctggagcaccgc	W64156
97084	gaccctggagcaccgcggattcaag	W64156
97085	caagctgaacatctgggatgtaggt	W64156
97086	ccagaagtctctgcgctcctactgg	W64156
97087	gcgctcctactggaggaactacttt	W64156
97088	gaactactttgagagcacggatggc	W64156
97089	ctactttgagagcacggatggcctc	W64156
97090	ttctgaccattctgaagaagatata	W64156
97091	gctgctcatgcttggcttggacaac	W64156
97092	catgcttggcttggacaacgctggc	W64156
97093	gcttggcttggacaacgctggcaaa	W64156
97094	tggcttggacaacgctggcaaaaca	W64156
97095	cgctggcaaaacaaccatcctcaag	W64156
97096	tggcaaaacaaccatcctcaagaag	W64156
97097	cccgacactgggcttcaacatcaag	W64156
97098	ccagacctgctaagcaagagacttc	AA125310
97099	agcaagagacttcaccatggagcaa	AA125310
97100	catttcttctgccttggccatggtc	AA125310
97101	ttcttctgccttggccatggtcatt	AA125310
97102	gcagctcagctttctaagacttttc	AA125310
97103	gctcagctttctaagacttttcatt	AA125310
97104	tctaagacttttcattttgactctg	AA125310
97105	cattttgactctgttgaggacatcc	AA125310
97106	gacatccattcacgcttccaaagcc	AA125310
97107	cgcttccaaagcctgaatgctgaag	AA125310
97108	cgtggagcatctcacactctgaaac	AA125310

TABLE 1

SEQ ID NO	sequence	DBAxnID
11901	catgaccaagccgaccacaatcatt	W55300
11902	atgaccaagccgaccacaatcattg	W55300
11903	ttcatcctagtgggagtcaggttac	J04761
11904	ttcacagtgcctcttgttggcctct	J04761
11905	ggccagttcatctatagcatcttgt	J04761
11906	ttcatctatagcatcttgtttcctg	J04761
11907	gttccctgagccctctggatcaagt	J04761
11908	tgagccctctggatcaagttttata	J04761
11909	accaaaggcctttagttctcatgca	J04761
11910	tagttctcatgcactatgcactcaa	J04761
11911	tcatgcactatgcactcaagacaaa	J04761
11912	actatgcactcaagacaaatccagg	J04761
11913	cactcaagacaaatccaggcttatt	J04761
11914	tgccaaagaggccatgctgagttag	J04761
11915	ggcctcttggtgggctacagcctgg	J04761
11916	ccagtggctcagcgacgaacagtca	J04761
11917	gctcagcgacgaacagtcagcattg	J04761
11918	cgccgccttcaagcagactatgcct	J04761
11919	gcagactatgcctctcaggcccctt	J04761
11920	tctcaggccccttttcattgtggcac	J04761
11921	ttcattgtggcactgagtggtacct	J04761
11922	ggtacctccgagatgttggctttgg	J04761
11923	ccacgcgtccgggagagacctagat	W55306
11924	cgcgtccgggagagacctagatcca	W55306
11925	cattcagaccttggcgtcaggagat	W55306
11926	attcagaccttggcgtcaggagata	W55306
11927	ttcagaccttggcgtcaggagatac	W55306
11928	tcagaccttggcgtcaggagatacg	W55306
11929	cagaccttggcgtcaggagatacga	W55306
11930	agaccttggcgtcaggagatacgag	W55306
11931	gaccttggcgtcaggagatacgagg	W55306
11932	accttggcgtcaggagatacgaggt	W55306
11933	ccttggcgtcaggagatacgaggtc	W55306
11934	gagacctagatccaaagacggagaa	W55306
11935	gacctagatccaaagacggagaacg	W55306
11936	aaattggcgactgaagcggcctggg	W55306
11937	tttagcattcagaccttggcgtcag	W55306
11938	ttagcattcagaccttggcgtcagg	W55306
11939	tagcattcagaccttggcgtcagga	W55306
11940	agcattcagaccttggcgtcaggag	W55306
11941	gcattcagaccttggcgtcaggaga	W55306
11942	gacaggtccttgagccgcctaacac	J04761
11943	tccttgagccgcctaacactggatg	J04761
11944	atgtatccagctcttgctaggtgct	J04761
11945	ccagctcttgctaggtgctaggtac	J04761
11946	ctcaaagtacatggcctgagttctc	J04761
11947	aagttgaggctgcactgtagagaca	J04761
11948	acctagcaatggcttgggacagaca	J04761
11949	caagtctagccagcctatagaagtg	J04761
11950	agaagtgcctctgtaggagaaagag	J04761
11951	ttagtattcccatttagcccactca	J04761
11952	ccactcagcatacaccctcaaaaga	J04761
11953	tcaggaaaccactagttcctgtcac	J04761
11954	agccgcctaacactggatgacatcg	J04761
11955	gacatcgaacgtttggccagccgct	J04761
11956	ttggccagccgctttctacaccctg	J04761
11957	tttctacaccctgaagtgactgagg	J04761
11958	aatcccaggtcaggccacagctgca	J04761
11959	aggtcaggccacagctgcatgttgc	J04761
11960	atgtgttctcatgtcgcagtttggc	J04761
11961	gtcgcagtttggctcatagtgataa	J04761
11962	ggaaagtcacccgcaaagatggcag	AA071685
11963	aaagtcacccgcaaagatggcagtg	AA071685
11964	acacgctgctggaactttggactgc	AA071685
11965	acgctgctggaactttggactgcat	AA071685
11966	gaactttggactgcattctgccgcc	AA071685
11967	aactttggactgcattctgccgcca	AA071685
11968	ctttggactgcattctgccgccaac	AA071685

SEQ ID NO	sequence	DBAxnID
54505	tttcacaaaagcaactgtacagtga	X65627
54506	ggcaatgcatggccttccaataaaa	X65627
54507	aatgcatggccttccaataaaagat	X65627
54508	gcatggccttccaataaaagatatt	X65627
54509	gacttaccagaacggttatgatagc	X65627
54510	tagcactcagcaatatggaagtaat	X65627
54511	gaaccaacaggcatatgcatatcct	X65627
54512	atatgcatatcctgtaccgcagcct	X65627
54513	accgcagcctgcgcctatgattggc	X65627
54514	gcctgcgcctatgattggctatccc	X65627
54515	gattggctatcccatgccaacaggg	X65627
54516	tggctatcccatgccaacagggtat	X65627
54517	tggcttcggaggccctctgtacccg	Z21524
54518	ccagcgacctctgcacaaaaggaaa	Z21524
54519	cttgcccagtgaacagaataaaggt	Z21524
54520	taaaggtgcctctttggatcgttcg	Z21524
54521	tgcctctttggatcgttcgcagtgt	Z21524
54522	ctctttggatcgttcgcagtgttca	Z21524
54523	tttggatcgttcgcagtgttcaccc	Z21524
54524	ctctcaggaagaccccgactcggag	Z21524
54525	agaccccgactcggagatctcagag	Z21524
54526	ccccgactcggagatctcagaggat	Z21524
54527	ctcagaggattccgaccaggaggtg	Z21524
54528	atgacagtcatcggccatgttagag	Z21524
54529	ctccaacgaccagaccgtcgagctg	Z21524
54530	tcatcggccatgttagagaccgact	Z21524
54531	caacgaccagaccgtcgagctggag	Z21524
54532	gtttcagaatcgccgagctaaatgg	Z21524
54533	tcagaatcgccgagctaaatggaga	Z21524
54534	gaatcgccgagctaaatggagaaga	Z21524
54535	cagtttggacacttcctgtgagcag	Z21524
54536	tttggacacttcctgtgagcagggt	Z21524
54537	ttcctgtgagcagggtcaagacttg	Z21524
54538	tggtctatggtcctgaaggctcaga	X72307
54539	atggtcctgaaggctcagacttggt	X72307
54540	ctcatctgtatattatggggaatga	X72307
54541	gcagtcagcaccatcaaggcaaggt	X72307
54542	agcaccatcaaggcaaggtgacttt	X72307
54543	attatggtggcccactcatttgtga	X72307
54544	gtggcccactcatttgtgaacaaca	X72307
54545	tcattgttcctggtcgtggatgtgc	X72307
54546	ttcctggtcgtggatgtgccatccc	X72307
54547	gatgtgccatcccaaatcgtcctgg	X72307
54548	agcatccatggatacatgaggattt	X72307
54549	aggatttccaagacttcaggatcaa	X72307
54550	gctcagacttggttttactgaagct	X72307
54551	ggatttccaagacttcaggatcaaa	X72307
54552	ttttactgaagcttgctcgacctgc	X72307
54553	tgaagcttgctcgacctgcaatcct	X72307
54554	ttgctcgacctgcaatcctggataa	X72307
54555	gacctgcaatcctggataactttgt	X72307
54556	gtacaatccctgaaaagaccacttg	X72307
54557	tccctgaaaagaccacttgcagtat	X72307
54558	tgatcaacgcggatggtttattacg	X72307
54559	ttttgctctgaaaatcgcccaaaga	Z46757
54560	ttgctctgaaaatcgcccaaagatc	Z46757
54561	gcataccgtgccaagggcaaaagtg	Z46757
54562	gtaggccaacaggctcaaagaagaa	Z46757
54563	agtggctgtcctaaagtgtggagta	Z46757
54564	tggctgtcctaaagtgtggagtata	Z46757
54565	aattcaagtgcagctcaacattagc	Z46757
54566	ttcaagtgcagctcaacattagctt	Z46757
54567	caagtgcagctcaacattagcttca	Z46757
54568	tgcagctcaacattagcttcagtat	Z46757
54569	cagctcaacattagcttcagtataa	Z46757
54570	gctcaacattagcttcagtataaaa	Z46757
54571	gctctgaaaatcgcccaaagatcaa	Z46757
54572	tgaaaatcgcccaaagatcaaaatt	Z46757

SEQ ID NO	sequence	DBAxnID
97109	ggagcatctcacactctgaaacttg	AA125310
97110	aagagacttcaccatggagcaactg	AA125310
97111	tctcacactctgaaacttgctaaca	AA125310
97112	cttcaccatggagcaactgagttca	AA125310
97113	actgagttcagccaacaccctcttc	AA125310
97114	caccctcttcgccttggagctgttc	AA125310
97115	cgccttggagctgttccaaaccctg	AA125310
97116	gctgttccaaaccctgaatgaaagc	AA125310
97117	gttccaaaccctgaatgaaagcagc	AA125310
97118	gaatgaaagcagccccacaggaaac	AA125310
97119	ccaccttaaaattcacatgcgaatc	AA140301
97120	ggaaagccttcagtcactccacttc	AA140301
97121	ttcatctgtcccagttccttcagga	AA140301
97122	ccagttccttcaggattcatgaaat	AA140301
97123	ttccttcaggattcatgaaataagt	AA140301
97124	atgaaataagtcacacccacactga	AA140301
97125	gaaataagtcacacccacactgaag	AA140301
97126	agtcacacccacactgaagagaaac	AA140301
97127	tcacacccacactgaagagaaaccc	AA140301
97128	aaagcctacagtcatcctcgttcac	AA140301
97129	agcctacagtcatcctcgttcactt	AA140301
97130	tacagtcatcctcgttcacttcgca	AA140301
97131	aaagccttcagtcactccacttcat	AA140301
97132	cagtcatcctcgttcacttcgcaga	AA140301
97133	ttcagtcactccacttcatttcaga	AA140301
97134	cagtcactccacttcatttcagatc	AA140301
97135	gtcactccacttcatttcagatcca	AA140301
97136	ctccacttcatttcagatccatgaa	AA140301
97137	ccacttcatttcagatccatgaaag	AA140301
97138	aaagccttcatctgtcccagttcct	AA140301
97139	agccttcatctgtcccagttccttc	AA140301
97140	aacccgacgtcacagtcagtgatgt	AA140150
97141	cccctctgctcgatccagagaggtt	AA140150
97142	caactctgtgcctaggaagttgcca	AA140150
97143	gaagttgccaatcggactgatgctt	AA140150
97144	gccaatcggactgatgcttgcttca	AA140150
97145	aatcggactgatgcttgcttcaatc	AA140150
97146	cggactgatgcttgcttcaatcgag	AA140150
97147	actgatgcttgcttcaatcgagtta	AA140150
97148	gatgcttgcttcaatcgagttattg	AA140150
97149	gcttgcttcaatcgagttattgggt	AA140150
97150	tgcttcaatcgagttattgggtctg	AA140150
97151	gttattgggtctgagctcgtacaga	AA140150
97152	ctctgctcgatccagagaggttttg	AA140150
97153	atcgagcgtccaaaggggtgtactg	AA140150
97154	gggtgtactgctgtttgggccacca	AA140150
97155	tgtactgctgtttgggccaccaggc	AA140150
97156	tgggccaccaggcacaaggcaagac	AA140150
97157	gccaccaggcacaaggcaagacaac	AA140150
97158	gcaagacaactctgtgcctaggaag	AA140150
97159	agacaactctgtgcctaggaagttg	AA140150
97160	ttaatttcttcaggaacacttggca	AA140339
97161	tttcttcaggaacacttggcaacga	AA140339
97162	tcgattggttgccggtttacaactg	AA140339
97163	gcagcgttcagggaggcaaggtctc	AA140339
97164	aggtctctagtggtgaaccgattca	AA140339
97165	gtctctagtggtgaaccgattcaag	AA140339
97166	gaaccgattcaaggctgagcattat	AA140339
97167	attcaaggctgagcattatgcactc	AA140339
97168	ctgagcattatgcactctcagagag	AA140339
97169	gagcattatgcactctcagagagct	AA140339
97170	attatgcactctcagagagctctta	AA140339
97171	tgcactctcagagagctcttatgtc	AA140339
97172	aacacttggcaacgagctgtggtga	AA140339
97173	cttggcaacgagctgtggtgaagtt	AA140339
97174	tggcaacgagctgtggtgaagtttg	AA140339
97175	aagtttgctgctgcacaggagccaa	AA140339
97176	gtttgctgctgcacaggagccaatt	AA140339

TABLE 1

SEQ ID NO	sequence	DBAxnID
11969	tttggactgcattctgccgccaact	AA071685
11970	ttggactgcattctgccgccaactc	AA071685
11971	tggactgcattctgccgccaactcg	AA071685
11972	ggactgcattctgccgccaactcgt	AA071685
11973	gactgcattctgccgccaactcgtc	AA071685
11974	cagtgccagtggacacgctgctgga	AA071685
11975	tgccagtggacacgctgctggaact	AA071685
11976	gccagtggacacgctgctggaactt	AA071685
11977	cagtggacacgctgctggaactttg	AA071685
11978	agtggacacgctgctggaactttgg	AA071685
11979	gtggacacgctgctggaactttgga	AA071685
11980	ggacacgctgctggaactttggact	AA071685
11981	gacacgctgctggaactttggactg	AA071685
11982	tctctttgttgtccgagagttataa	W55283
11983	gttataaccctcatgtgcgctacgg	W55283
11984	agcctcagctctcatcatgatccaa	W55283
11985	catcatgatccaacagaccgaaatc	W55283
11986	gatccaacagaccgaaatcacgtgt	W55283
11987	acagaccgaaatcacgtgtccaaag	W55283
11988	ggtaaaccagttccggcagctgtat	W55283
11989	ccagttccggcagctgtattccaaa	W55283
11990	ccggcagctgtattccaaagtcatc	W55283
11991	gctgtattccaaagtcatcaatgac	W55283
11992	ttccaaagtcatcaatgacaagcat	W55283
11993	tgtcatggccaaatttggcgctatt	W55283
11994	atgtgcgctacggcgtgcaatggcc	W55283
11995	aatggccctgggagtctgctgtgct	W55283
11996	cctgggagtctgctgtgctggtaca	W55283
11997	taatttactggagccaatgaccaat	W55283
11998	gaccaatgaccctgtgaactacgtg	W55283
11999	tgaccctgtgaactacgtgcggcaa	W55283
12000	tgtgaactacgtgcggcaaggggct	W55283
12001	ctacgtgcggcaaggggctctgata	W55283
12002	agagccatctgcatgggatcaaacc	M21247
12003	gagttatagccaccacagaaagctt	M21247
12004	acccaagcgtaccaagctgtgcgat	M21247
12005	gcgtaccaagctgtgcgatgtccat	M21247
12006	caagctgtgcgatgtccatgtacac	M21247
12007	ggtttgtggcttcttttctgcgact	M21247
12008	tggcttcttttctgcgactcgggtc	M21247
12009	cctggaacgtcatcatgtttgtgtg	M21247
12010	acgtcatcatgtttgtgtgctttga	M21247
12011	tcatgtttgtgtgctttgaacagct	M21247
12012	attgtaccacataagcaacttggag	M21247
12013	gcttctatgctgggagaccacgaat	M21247
12014	tagccaccacagaaagcttgtcaac	M21247
12015	atgtcatcatcaattgtacagagct	M21247
12016	tggtaacatatgacctcatgaaggg	M21247
12017	ttgtaaacaacaaaatactggcaga	M21247
12018	gccatttactgtcagctcttgttgc	M21247
12019	ttgttgccgggttttgcaccacact	M21247
12020	caagattcatcaactctctgccagg	M21247
12021	tgccaggacagtacccaagcgtacc	M21247
12022	cttgtccgcaaaactctggacatga	W55140
12023	tataatgacactttctggaaagaat	W55140
12024	cactcaaatcgaacacggcttgcta	W55140
12025	tcaaatcgaacacggcttgctaaac	W55140
12026	aggttccagtcttctcaccattcaa	W55140
12027	ttccagtcttctcaccattcaactg	W55140
12028	cagtcttctcaccattcaactgaca	W55140
12029	tctcaccattcaactgacattacta	W55140
12030	caccattcaactgacattactagtt	W55140
12031	cattcaactgacattactagtttag	W55140
12032	gacaaaatctacttcatggctgggt	W55140
12033	ttcatggctgggtcaagcagaaaag	W55140
12034	aatgacactttctggaaagaatttg	W55140
12035	gaatttggcaccaatatcaagcttg	W55140
12036	tttggcaccaatatcaagcttggtg	W55140
54573	tcgcccaaagatcaaaattgaacac	Z46757
54574	tgaacacccaggcctgtctattgga	Z46757
54575	ggatattgctgcataccgtgccaag	Z46757
54576	atattgctgcataccgtgccaaggg	Z46757
54577	attgctgcataccgtgccaagggca	Z46757
54578	tgctgcataccgtgccaagggcaaa	Z46757
54579	tccagatgacatcatcactgacatt	X84797
54580	tgacatcatcactgacattgagatg	X84797
54581	ttcccgaattcgaagctgctctgcc	X84797
54582	actccatggtactgctgcaaggacc	X84797
54583	tggtactgctgcaaggacctggctg	X84797
54584	atgcctgaagttctggcagtctgtc	X84797
54585	actcttccctgaggtagctcatgaa	X84797
54586	tcatgaaatcatcttgcagacctgc	X84797
54587	aatcatcttgcagacctgcctcctt	X84797
54588	cagctctgccaaccttgctctagag	X84797
54589	tgccaaccttgctctagagtgctgg	X84797
54590	gctctcacagggctgcctgattcgc	X84797
54591	catcactgacattgagatggtggat	X84797
54592	ccaatgccgtggccactttggactt	X84797
54593	tggacttttccctgcaaactatgtc	X84797
54594	tttccctgcaaactatgtcaagctc	X84797
54595	ctatgtcaagctcctctaatgacca	X84797
54596	caagctcctctaatgaccagcccat	X84797
54597	cctctaatgaccagcccattgtctt	X84797
54598	atgaccagcccattgtcttccgact	X84797
54599	tggccagcacgtgctaacaagccgg	AA049118
54600	ggccagcacgtgctaacaagccgga	AA049118
54601	gctaacaagccggatgggattacta	AA049118
54602	taacaagccggatgggattactaag	AA049118
54603	agttcccaagctgttccaacaactg	AA049118
54604	gttcccaagctgttccaacaactgt	AA049118
54605	ttcccaagctgttccaacaactgtc	AA049118
54606	tcccaagctgttccaacaactgtca	AA049118
54607	cccaagctgttccaacaactgtcag	AA049118
54608	caagctgttccaacaactgtcaggg	AA049118
54609	aagctgttccaacaactgtcaggga	AA049118
54610	agctgttccaacaactgtcagggaa	AA049118
54611	gccagcacgtgctaacaagccggat	AA049118
54612	gctgttccaacaactgtcagggaag	AA049118
54613	ccagcacgtgctaacaagccggatg	AA049118
54614	cagcacgtgctaacaagccggatgg	AA049118
54615	agcacgtgctaacaagccggatggg	AA049118
54616	acgtgctaacaagccggatgggatt	AA049118
54617	cgtgctaacaagccggatgggatta	AA049118
54618	gtgctaacaagccggatgggattac	AA049118
54619	tgctaacaagccggatgggattact	AA049118
54620	taaggttctccgcgataacatccag	U62672
54621	cccacattccctgaaaaagcgctgt	U62672
54622	cttgagtgcctttggagaattgtaa	U62672
54623	tcaagtttgcaccattttcttggaa	U62672
54624	gaaatactgccttattaagtgtgcg	U62672
54625	atactgccttattaagtgtgcgcag	U62672
54626	tattaagtgtgcgcagctaaactct	U62672
54627	gtgtgcgcagctaaactctgttcct	U62672
54628	tgcgcagctaaactctgttccttga	U62672
54629	gcagctaaactctgttccttgagga	U62672
54630	gctaaactctgttccttgaggaaag	U62672
54631	tgttccttgaggaaagcctgagtga	U62672
54632	acattccctgaaaaagcgctgtaat	U62672
54633	taatactgaaccacttaacagcttg	U62672
54634	tactgaaccacttaacagcttgggc	U62672
54635	tgaaccacttaacagcttgggcatc	U62672
54636	accacttaacagcttgggcatctca	U62672
54637	taacagcttgggcatctcagagaat	U62672
54638	cagcttgggcatctcagagaatata	U62672
54639	aaccttgagtgcctttggagaattg	U62672
54640	ttcctctgagggacttggcctgagg	L12030
97177	ttgctgctgcacaggagccaattcg	AA140339
97178	gctgctgcacaggagccaattcgat	AA140339
97179	ctgcacaggagccaattcgattggt	AA140339
97180	tctactgagcaccaccaatgtccag	L14543
97181	gagcaccaccaatgtccaggtaaga	L14543
97182	tggctggagcctcaatttgaaagcc	L14543
97183	caatttgaaagccccaattagcaat	L14543
97184	gaaagccccaattagcaattattga	L14543
97185	tgtgagcagcccctagtccagcttg	L14543
97186	ggtcaagcttactctagagcaggtc	L14543
97187	ttcttacagatgacctggccagagt	L14543
97188	cagatgacctggccagagtgaagtg	L14543
97189	acagtggcatccacgtacccccaag	L14543
97190	ctgcacagccgtctagactggactt	L14543
97191	agccgtctagactggacttttctg	L14543
97192	caccaatgtccaggtaagagagcta	L14543
97193	actgagagcagccctaatgtgtggt	L14543
97194	agcagccctaatgtgtggtctttag	L14543
97195	tctttagtgttcagggcacaggctg	L14543
97196	gctgagtgacctcactggaagagat	L14543
97197	tgacctcactggaagagatagctaa	L14543
97198	ggatccacctggatctgtcaatctt	L14543
97199	acctggatctgtcaatcttggctgg	L14543
97200	cagttcctaaagaactctacctcag	AA140415
97201	tctacctcagttcttcactaaaaga	AA140415
97202	gacctgatttcaagcaacagcagga	AA140415
97203	ctgatttcaagcaacagcaggatta	AA140415
97204	atttcaagcaacagcaggattatta	AA140415
97205	attattatctgtcagtacttggacc	AA140415
97206	attatctgtcagtacttggacctgc	AA140415
97207	atctgtcagtacttggacctgcaag	AA140415
97208	tgtcagtacttggacctgcaagcat	AA140415
97209	cagtacttggacctgcaagcatcaa	AA140415
97210	ttggacctgcaagcatcaaagaagc	AA140415
97211	gacctgcaagcatcaaagaagctat	AA140415
97212	tcagttcttcactaaaagacctcaa	AA140415
97213	ctgagaaaaccagcaccaagaatta	AA140415
97214	attatatacacagcgcgcagaagat	AA140415
97215	atatacacagcgcgcagaagatctt	AA140415
97216	tacacagcgcgcagaagatcttcaa	AA140415
97217	agatcttcaagacagcagaagaatg	AA140415
97218	tttataatctgatcgcaaagagacc	AA140415
97219	ataatctgatcgcaaagagacctga	AA140415
97220	ttaatcatgccaatggctcacgttg	AA140433
97221	atcatgccaatggctcacgttggtg	AA140433
97222	ccagcacctcgtagagcgagcgaca	AA140433
97223	cagcacctcgtagagcgagcgacat	AA140433
97224	gcacctcgtagagcgagcgacatgt	AA140433
97225	cacctcgtagagcgagcgacatgtc	AA140433
97226	ctcgtagagcgagcgacatgtcact	AA140433
97227	ccccagactacttcctgtgatgaga	AA140433
97228	cccagactacttcctgtgatgagaa	AA140433
97229	agactacttcctgtgatgagaatgt	AA140433
97230	actacttcctgtgatgagaatgtca	AA140433
97231	acttcctgtgatgagaatgtcaact	AA140433
97232	ttaagtattcattcttgcagctgtg	AA140433
97233	agtattcattcttgcagctgtgacc	AA140433
97234	gtattcattcttgcagctgtgaccc	AA140433
97235	attcattcttgcagctgtgacccag	AA140433
97236	ttcattcttgcagctgtgacccagc	AA140433
97237	gcagctgtgacccagcacctcgtag	AA140433
97238	agctgtgacccagcacctcgtagag	AA140433
97239	gacccagcacctcgtagagcgagcg	AA140433
97240	ctgcagccatggtcaacccaccgtg	AA140350
97241	caccgtgttttcgacatcacgggcg	AA140350
97242	tccttttacagaattatccaggaat	AA140350
97243	cttttacagaattatccaggaatca	AA140350
97244	attatccaggaatcatgtgccagag	AA140350

TABLE 1

SEQ ID NO	sequence	DBAxnID
12037	ggcaccaatatcaagcttggtgtga	W55140
12038	aatatcaagcttggtgtgattgaag	W55140
12039	atcaagcttggtgtgattgaagatc	W55140
12040	attgaagatcactcaaatcgaacac	W55140
12041	gatcactcaaatcgaacacggcttg	W55140
12042	acagcacatgggggctttgcacttt	L31398
12043	caggaactgcatccttgggaccatc	L31398
12044	agctcctttggccatattaaccaca	L31398
12045	tttggccatattaaccacacaagct	L31398
12046	cgacccagaggtgcctttgtgcctt	L31398
12047	agaggtgcctttgtgccttcctcag	L31398
12048	gcctttgtgccttcctcagcctgga	L31398
12049	gtgccttcctcagcctggagggcct	L31398
12050	ttggctcccaaccagatgtcccaca	L31398
12051	cccaaccagatgtcccacagggtgg	L31398
12052	caccgcctggattgaccactgttaa	L31398
12053	agtgcctgcctctgtatatcctatt	L31398
12054	ctgcatccttgggaccatcaggaaa	L31398
12055	ttctggagctcctccagagcctttg	L31398
12056	agctcctccagagcctttgttcttt	L31398
12057	tccagagcctttgttctttctgggg	L31398
12058	tcctcaggagtgagccaggcccagc	L31398
12059	tgacccacctggctcaagttgtata	L31398
12060	acctggctcaagttgtatatataga	L31398
12061	atatagagctcctttggccatatta	L31398
12062	tgtcgaactgtccccctggctggac	W55145
12063	ctggctggacatgtggggtttgaca	W55145
12064	ggcttctgcttcaacatcctgtgcg	W55145
12065	ttctgcttcaacatcctgtgcgtgg	W55145
12066	ctcatggataccctgttcaacacca	W55145
12067	atggataccctgttcaacaccaagt	W55145
12068	gataccctgttcaacaccaagtttg	W55145
12069	gagccaacgactcacacacagccag	W55145
12070	ccaacgactcacacacagccaggtg	W55145
12071	actcacacacagccaggtgttcagc	W55145
12072	cacacacagccaggtgttcagctcc	W55145
12073	acacagccaggtgttcagctccggt	W55145
12074	tttgacagcttgcctgaccagctgg	W55145
12075	cagccaggtgttcagctccggtcca	W55145
12076	gacagcttgcctgaccagctggtga	W55145
12077	ttgcctgaccagctggtgaataagt	W55145
12078	cctgaccagctggtgaataagtcag	W55145
12079	tcagtcagccagggcttctgcttca	W55145
12080	gtcagccagggcttctgcttcaaca	W55145
12081	agccagggcttctgcttcaacatcc	W55145
12082	cagggcttctgcttcaacatcctgt	W55145
12083	accagtgcggcctgcgacgactaaa	W55350
12084	gcggcctgcgacgactaaagccacc	W55350
12085	cctctgacggctcgggcacacttgt	W55350
12086	ctgacggctcgggcacacttgtgga	W55350
12087	cgggcacacttgtggacactcgagg	W55350
12088	gcacacttgtggacactcgagggca	W55350
12089	cacttgtggacactcgagggcacac	W55350
12090	tggacactcgagggcacacacacac	W55350
12091	gagggcacacacacacccatgcaca	W55350
12092	acacactcacactgtatgtatgtct	W55350
12093	cactcacactgtatgtatgtctgta	W55350
12094	tcacactgtatgtatgtctgtagct	W55350
12095	gcctgcgacgactaaagccaccagc	W55350
12096	agcacatatggctacaggcctagat	W55350
12097	gacgactaaagccaccagcgtctca	W55350
12098	gactaaagccaccagcgtctcagtg	W55350
12099	taaagccaccagcgtctcagtgttg	W55350
12100	agccaccagcgtctcagtgttgacg	W55350
12101	ggatgtttccagtgtgtgcctctga	W55350
12102	tgtttccagtgtgtgcctctgacgg	W55350
12103	gtgcctctgacggctcgggcacact	W55350
12104	ctccttcctctttgcaataaactgc	L24372

SEQ ID NO	sequence	DBAxnID
54641	tctccagtgggttctgtttatcctc	L12030
54642	cagcaaagttgccaacctcgacggg	L12030
54643	agttgccaacctcgacgggctagca	L12030
54644	agtgtctaagcagcgatgggttcag	L12030
54645	taagcagcgatgggttcagtgttgt	L12030
54646	ttcagttctgtctcccagataatgt	L12030
54647	tctgtctcccagataatgtgaaaac	L12030
54648	atatgcagcgtgtgctttcttattc	L12030
54649	aagccatttctactttgaagtcatt	L12030
54650	tttctactttgaagtcattatcgat	L12030
54651	tgatgtatcttcacctaccattttc	L12030
54652	tctgtttatcctctcatgggtgatt	L12030
54653	tatctcagtggtgtcaccaggggct	L12030
54654	ccagaagtcagtcatccccaggccg	L12030
54655	caggccgtgcaccctttcagctgg	L12030
54656	ccttttcagctggatgagagccagg	L12030
54657	tccaaacagctaccctggcccattt	L12030
54658	taatctcattcttcaaaatgttcca	L12030
54659	tgttccatagaatcctccaaattcc	L12030
54660	ctaaggctaagacccgctcttcgcg	X16495
54661	taaggctaagacccgctcttcgcgg	X16495
54662	tgctccccaagaagactgagagtca	X16495
54663	gctccccaagaagactgagagtcac	X16495
54664	agactgagagtcaccacaaggccaa	X16495
54665	ctgagagtcaccacaaggccaaggg	X16495
54666	tgagagtcaccacaaggccaagggc	X16495
54667	gagtcaccacaaggccaagggcaag	X16495
54668	gtcaccacaaggccaagggcaagta	X16495
54669	gtcttaacaaaggctcttttcagag	X16495
54670	ggctcttttcagagccacccatgta	X16495
54671	gctcttttcagagccacccatgtat	X16495
54672	cttgctccgcaagggcaactactcc	X16495
54673	tcttttcagagccacccatgtattc	X16495
54674	gcaagggcaactactccgagcgagt	X16495
54675	agggcaactactccgagcgagtcgg	X16495
54676	gggcaactactccgagcgagtcggg	X16495
54677	aggctgtactgctccccaagaagac	X16495
54678	ggctgtactgctccccaagaagact	X16495
54679	tgtactgctccccaagaagactgag	X16495
54680	tactgctccccaagaagactgagag	X16495
54681	gattcgcaaactgccattccagcgt	X16496
54682	tcgcaaactgccattccagcgtcta	X16496
54683	tgatctgcgttttcagagctcggcg	X16496
54684	gcgttttcagagctcggcggtgatg	X16496
54685	ttttcagagctcggcggtgatggcg	X16496
54686	cctatgcgccattcacgccaagcga	X16496
54687	atgcgccattcacgccaagcgagtg	X16496
54688	cgccattcacgccaagcgagtgact	X16496
54689	cattcacgccaagcgagtgactatc	X16496
54690	tcacgccaagcgagtgactatcatg	X16496
54691	aattgtcttgtgaatgtgtgctaac	X16496
54692	tttcagagccaaccacctttttctat	X16496
54693	caaactgccattccagcgtctagtc	X16496
54694	actgccattccagcgtctagtccgt	X16496
54695	gccattccagcgtctagtccgtgag	X16496
54696	attccagcgtctagtccgtgagatc	X16496
54697	gcgtctagtccgtgagatcgcgcag	X16496
54698	tctagtccgtgagatcgcgcaggac	X16496
54699	cttcaagactgatctgcgttttcag	X16496
54700	gactgatctgcgttttcagagctcg	X16496
54701	gtgccctcatcactgccagcagcag	X58250
54702	tcagtttcagcagcaccagcagcct	X58250
54703	cactggctggactttgtgcctactt	X58250
54704	ttgcctagattggagccggacgcca	X58250
54705	agattggagccggacgccacgggca	X58250
54706	gacgccacgggcagcctcttcgggg	X58250
54707	gttttccctacctaagcagctcaca	X58250
54708	taagcagctcacactgtgaaatgtt	X58250

SEQ ID NO	sequence	DBAxnID
97245	tgacttttaacgccataattggact	AA140350
97246	ttttaacgccataattggacttgcg	AA140350
97247	ttaacgccataattggacttgcggc	AA140350
97248	cgccataattggacttgcggcaagg	AA140350
97249	ataattggacttgcggcaaggtcaa	AA140350
97250	ttggacttgcggcaaggtcaacttc	AA140350
97251	acttgcggcaaggtcaacttccgag	AA140350
97252	ccgtgttttcgacatcacgggcgat	AA140350
97253	gcgcggttccttcgagcttgttgca	AA140350
97254	gcggttccttcgagcttgttgcaga	AA140350
97255	aactttcgagctctgacacttgaga	AA140350
97256	ctttcgagctctgacacttgagaga	AA140350
97257	ttcgagctctgacacttgagagaaa	AA140350
97258	agctctgacacttgagagaaaggat	AA140350
97259	ctctgacacttgagagaaaggattt	AA140350
97260	catctgcactgagtgtggcaaaagc	W08741
97261	cagccactggtcgaagctgacacga	W08741
97262	accgactgcggcaagaccttctcgc	W08741
97263	aagaccttctcgcagagctcgcatt	W08741
97264	accttctcgcagagctcgcatttgg	W08741
97265	ttctcgcagagctcgcatttggtgc	W08741
97266	tcgcagagctcgcatttggtgcagc	W08741
97267	cagagctcgcatttggtgcagcacc	W08741
97268	aagcgatatgcctgctcagagtgcg	W08741
97269	cgatatgcctgctcagagtgcggca	W08741
97270	tatgcctgctcagagtgcggcaagc	W08741
97271	tgctcagagtgcggcaagcgcttta	W08741
97272	ccactggtcgaagctgacacgacac	W08741
97273	gaagctgacacgacaccagcgcacg	W08741
97274	gagcggcccaatgcctgtaccgact	W08741
97275	cggcccaatgcctgtaccgactgcg	W08741
97276	cccaatgcctgtaccgactgcggca	W08741
97277	aatgcctgtaccgactgcggcaaga	W08741
97278	gcctgtaccgactgcggcaagacct	W08741
97279	tgtaccgactgcggcaagaccttct	W08741
97280	ctaacttcctacaaacatctgcctg	L00919
97281	acttcctacaaacatctgcctgaag	L00919
97282	attcagcacctttgactggttttga	L00919
97283	cagcacctttgactggttttgagtg	L00919
97284	atactgttaccagtggcagtttgct	L00919
97285	ttaccagtggcagtttgctttacag	L00919
97286	gcagtttgctttacagaggggccca	L00919
97287	ggttccattctcagaagtgaattgc	L00919
97288	tccattctcagaagtgaattgcaga	L00919
97289	agcttcattagcatgggctcaagct	L00919
97290	gtacctgaactctgtccctctcgtg	L00919
97291	tctcgtgccgcctctgtctggaaat	L00919
97292	tacaaacatctgcctgaagattagt	L00919
97293	ccgcctctgtctggaaattggacca	L00919
97294	catctgcctgaagattagtagaatc	L00919
97295	tagaatcctaattctaggctggaat	L00919
97296	aatcctaattctaggctggaatgag	L00919
97297	tcccctgctgaatgctctatacaaa	L00919
97298	cctgctgaatgctctatacaaattc	L00919
97299	tgctctatacaaattcagcaccttt	L00919
97300	tctatacaaattcagcaccttttgac	L00919
97301	gcgctctgttgtctcgccttgccgt	AA000928
97302	ctctgttgtctcgccttgccgtgca	AA000928
97303	gcctgcatggaactgcgacgcgagc	AA000928
97304	tgcatggaactgcgacgcgagcttt	AA000928
97305	gcatggaactgcgacgcgagctttc	AA000928
97306	tggaactgcgacgcgagctttcccg	AA000928
97307	gaactgcgacgcgagctttcccgct	AA000928
97308	aactgcgacgcgagctttcccgctc	AA000928
97309	ctgcgacgcgagctttcccgctcat	AA000928
97310	tcatccccatagtggtggagcagac	AA000928
97311	catccccatagtggtggagcagacg	AA000928
97312	cgagcgcgcttatgacatatactcg	AA000928

TABLE 1

SEQ ID NO	sequence	DBAxnID
12105	ccttcctctttgcaataaactgcga	L24372
12106	tctcacctgcctgtgtgcaatggtc	L24372
12107	tcacctgcctgtgtgcaatggtctt	L24372
12108	acctgcctgtgtgcaatggtctttt	L24372
12109	ttctgtacctgctggagccagagca	L24372
12110	ctgtacctgctggagccagagcatt	L24372
12111	gtacctgctggagccagagcattgg	L24372
12112	acctgctggagccagagcattggag	L24372
12113	acagctgagtcctgccctggtgcca	L24372
12114	gtcctgccctggtgccacacaagat	L24372
12115	tgccctggtgccacacaagatccca	L24372
12116	ttcctctttgcaataaactgcgagc	L24372
12117	tctttgcaataaactgcgagcatct	L24372
12118	caataaactgcgagcatctcacctg	L24372
12119	aaactgcgagcatctcacctgcctg	L24372
12120	actgcgagcatctcacctgcctgtg	L24372
12121	tgcgagcatctcacctgcctgtgtg	L24372
12122	cgagcatctcacctgcctgtgtgca	L24372
12123	catctcacctgcctgtgtgcaatgg	L24372
12124	tagttcattatctgatcagttgaaa	U16818
12125	tacattatacattcagcacatttaa	U16818
12126	tttcagtgacagcccacagtttccc	U16818
12127	agctgacggctttctcccctggatt	U16818
12128	actgccgtggccttctccagtgtta	U16818
12129	ttctccagtgttagtcattcttcat	U16818
12130	agtcattcttcattgtgttcatgca	U16818
12131	tcttcattgtgttcatgcattatgg	U16818
12132	tcatgcattatgggtggcaagacct	U16818
12133	tgatggccctgtgtttgagataata	U16818
12134	tgcttgtgccggaatttgatgaaaa	U16818
12135	gcaagtacatcttctattgtgttcc	U16818
12136	ataacaatctaattgctggccacac	U16818
12137	gtgcttttccagtatcttcagtcta	U16818
12138	ttccagtatcttcagtctagacaac	U16818
12139	tatcttcagtctagacaactcttgc	U16818
12140	cagtctagacaactcttgccatctg	U16818
12141	ctcttgccatctgtggtaatttaca	U16818
12142	ctggcactctgctttcagtgacagc	U16818
12143	ctctgctttcagtgacagcccacag	U16818
12144	attcggcactagggcagcagcagcg	AA060905
12145	cagacggacgctggtaccaaggcct	AA060905
12146	gcatcatgtctgtgaatggaaagaa	AA060905
12147	aggtgctgcacatggaccgaaaccc	AA060905
12148	gtgctgcacatggaccgaaacccct	AA060905
12149	tgcacatggaccgaaaccctacta	AA060905
12150	cacatggaccgaaaccctactatg	AA060905
12151	caccctggaggagctatataagcg	AA060905
12152	agctatataagcgctttcagatact	AA060905
12153	ctatataagcgctttcagatactgg	AA060905
12154	tatataagcgctttcagatactgga	AA060905
12155	atataagcgctttcagatactggaa	AA060905
12156	gacgctggtaccaaggcctgatcat	AA060905
12157	ataagcgctttcagatactggaagg	AA060905
12158	cgctggtaccaaggcctgatcatgg	AA060905
12159	ctggtaccaaggcctgatcatggat	AA060905
12160	atacgatgtgattgtgctggggaca	AA060905
12161	gaatgcatcctgtctggcatcatgt	AA060905
12162	atgcatcctgtctggcatcatgtct	AA060905
12163	tctggcatcatgtctgtgaatggaa	AA060905
12164	tggcatcatgtctgtgaatggaaag	AA060905
12165	tttgaaggactccactgtcttgcag	J03298
12166	ggactccactgtcttgcagaatact	J03298
12167	gtctcggacagacaaggtggaagtc	J03298
12168	tgaccaacaggttcagtttgggaga	J03298
12169	tgacaacactgagtgtctggccaag	J03298
12170	cggcaaaaccacatcggagaagtat	J03298
12171	gtacgtcatagcgaccgagcgcctg	J03298
12172	catagcgaccgagcgcctgaagcag	J03298

SEQ ID NO	sequence	DBAxnID
54709	gaactgttcctctgagcaccagggg	X58250
54710	ttcctctgagcaccaggggtcttgg	X58250
54711	ggacttgctgcacttaggaggcctt	X58250
54712	gctgcacttaggaggcctttaacttt	X58250
54713	tcagcagcaccagcagcctgggtag	X58250
54714	actgctcggagctgccttcggctca	X58250
54715	tcaccagcagtcctcaaagcccgga	X58250
54716	gtttatagactggaccgagggcata	X58250
54717	agactggaccgagggcatagcgtgc	X58250
54718	agcgtgcagcttcctctacactggc	X58250
54719	cagcttcctctacactggctggact	X58250
54720	cctctacactggctggactttgtgc	X58250
54721	aagcttcttgagcttcaggctggaa	AA049237
54722	tctctggaagaccaggtagaaacac	AA049237
54723	gccagtgccttccaggaacttgacg	AA049237
54724	gccttccaggaacttgacgacaaca	AA049237
54725	cttgacgacaacatggatgggatgg	AA049237
54726	atggtctcgctggctgagttacaga	AA049237
54727	gtctcgctggctgagttacagactc	AA049237
54728	gagttacagactcacccggagctgg	AA049237
54729	ttacagactcacccggagctggaca	AA049237
54730	cagactcacccggagctggacacag	AA049237
54731	actcacccggagctggacacagatg	AA049237
54732	cacccggagctggacacagatggag	AA049237
54733	gtagaaacactgcgggcagcgaaag	AA049237
54734	acactgcgggcagcgaaagaagaag	AA049237
54735	gccaaggaccagcaccggaagctgt	AA049237
54736	aaggaccagcaccggaagctgtggg	AA049237
54737	gaccagcaccggaagctgtgggaag	AA049237
54738	cagcaccggaagctgtgggaagagc	AA049237
54739	gagcagcaagctgctgccaaggccc	AA049237
54740	gcagccagtgccttccaggaacttg	AA049237
54741	catcggagcccgaagactcgaagaa	AA049343
54742	actcgaagaacgccatggcccccat	AA049343
54743	gacagacatcatgaccgagggcatc	AA049343
54744	cagacatcatgaccgagggcatcac	AA049343
54745	agacatcatgaccgagggcatcaca	AA049343
54746	catcatgaccgagggcatcacaatt	AA049343
54747	tcatgaccgagggcatcacaattgt	AA049343
54748	tgaccgagggcatcacaattgtgga	AA049343
54749	aggatatcaacaagcgccgagagcc	AA049343
54750	ggatatcaacaagcgccgagagcca	AA049343
54751	atatcaacaagcgccgagagccact	AA049343
54752	tatcaacaagcgccgagagccactc	AA049343
54753	gaagaacgccatggcccccattggc	AA049343
54754	catggcccccattggcctcaaggcg	AA049343
54755	tggcccccattggcctcaaggcggt	AA049343
54756	ggcccccattggcctcaaggcggtg	AA049343
54757	gatgctgtcctcctgctgcaagatg	AA049343
54758	tgctgtcctcctgctgcaagatgac	AA049343
54759	ctcctgctgcaagatgacagacatc	AA049343
54760	tgacagacatcatgaccgagggcat	AA049343
54761	gggtcaccataacattccgtagatg	X53476
54762	gtcaccataacattccgtagatggg	X53476
54763	caatacgtagctcttcatttgtgta	X53476
54764	atacgtagctcttcatttgtgtaca	X53476
54765	acgtagctcttcatttgtgtacatg	X53476
54766	gtagctcttcatttgtgtacatgaa	X53476
54767	agctcttcatttgtgtacatgaaca	X53476
54768	ctcttcatttgtgtacatgaacaca	X53476
54769	tgtgacttcagagtttgggtacgtg	X53476
54770	tatatggctctttttgggtacatgt	X53476
54771	tatggctctttttgggtacatgtaa	X53476
54772	tggctctttttgggtacatgtaata	X53476
54773	ccataacattccgtagatggggcta	X53476
54774	aagtcctgagtctgttctgtgtgtg	X53476
54775	tgagtctgttctgtgtgtggcgtaa	X53476
54776	agtctgttctgtgtgtggcgtaaca	X53476

SEQ ID NO	sequence	DBAxnID
97313	tctgttgtctcgccttgccgtgcat	AA000928
97314	gccatggactgctgtgagctgctca	AA000928
97315	catggactgctgtgagctgctcacc	AA000928
97316	atggactgctgtgagctgctcaccc	AA000928
97317	ccctgcggaggagcctgcatggaac	AA000928
97318	cctgcggaggagcctgcatggaact	AA000928
97319	ggagcctgcatggaactgcgacgcg	AA000928
97320	gagcctgcatggaactgcgacgcga	AA000928
97321	tgtccacagctttgatgacaccaca	AA142759
97322	cagctttgatgacaccacagcaact	AA142759
97323	cattgcagcaatcgcaaacttcaag	AA142759
97324	tgcagcaatcgcaaacttcaagaac	AA142759
97325	agcaatcgcaaacttcaagaacttt	AA142759
97326	cagcctcctaacaagacggagattg	AA142759
97327	cttaagcttagccaacctggaatgc	AA142759
97328	aagcttagccaacctggaatgcaag	AA142759
97329	caacctggaatgcaagttggccgtt	AA142759
97330	gaccagaaccttacacacaattgat	AA142759
97331	cagaaccttacacacaattgatttg	AA142759
97332	cttacacacaattgatttggcctga	AA142759
97333	tgatgacaccacagcaactgtctgc	AA142759
97334	tgatttggcctgaatggttcaggat	AA142759
97335	aactgtctgcctcatgtcacaacaa	AA142759
97336	tgtctgcctcatgtcacaacaagca	AA142759
97337	cctcatgtcacaacaagcaaacgac	AA142759
97338	gtcacaacaagcaaacgaccaagtt	AA142759
97339	gagaagtcttcacacccaatggcct	AA142759
97340	cacccaatggccttcaaggaacata	AA142759
97341	cataaccaccattgcagcaatcgca	AA142759
97342	acaagtcctggttgatcgctagacc	AA142773
97343	gtcctggttgatcgctagaccactt	AA142773
97344	tccctcacgagcactaacgaagcga	AA142773
97345	cctcacgagcactaacgaagcgatg	AA142773
97346	tcacgagcactaacgaagcgatgat	AA142773
97347	gttgcggcactgaaaccggacctgt	AA142773
97348	cggcactgaaaccggacctgtgtgc	AA142773
97349	gcactgaaaccggacctgtgtgcct	AA142773
97350	tgaaaccggacctgtgtgccttagg	AA142773
97351	taatccttcttgtatgacatccatt	AA142773
97352	atccttcttgtatgacatccattta	AA142773
97353	ccttcttgtatgacatccatttaat	AA142773
97354	tggttgatcgctagaccacttcaat	AA142773
97355	ttcttgtatgacatccatttaatac	AA142773
97356	gttgatcgctagaccacttcaatgt	AA142773
97357	atcgctagaccacttcaatgttgcg	AA142773
97358	cgctagaccacttcaatgttgcggt	AA142773
97359	ctagaccacttcaatgttgcggtca	AA142773
97360	ggatgatatatccctcacgagcact	AA142773
97361	atgatatatccctcacgagcactaa	AA142773
97362	tatatccctcacgagcactaacgaa	AA142773
97363	atctgtaatcacgtgaaccacttat	AA142794
97364	ttatccgttctccgacgtgagctag	AA142794
97365	tgtactatgcagtctgaacaagtgc	AA142794
97366	ttaccatggaagcatcggctccact	AA142794
97367	aagcatcggctccacttcccatttg	AA142794
97368	ctccacttcccatttgactgctcaa	AA142794
97369	ttcccatttgactgctcaagtccgg	AA142794
97370	tttgactgctcaagtccgggtcgtc	AA142794
97371	ccgggtcgtcccaactgcaagcttg	AA142794
97372	ggtcgtcccaactgcaagcttgccc	AA142794
97373	cccaactgcaagcttgccctatggt	AA142794
97374	aactgcaagcttgccctatggtctt	AA142794
97375	tccgttctccgacgtgagctagcgg	AA142794
97376	ctccgacgtgagctagcggtagtcc	AA142794
97377	ttagcccagtcaaattctcgccctg	AA142794
97378	tctcgccctgggatttctagctacg	AA142794
97379	cgccctgggatttctagctacgtgg	AA142794
97380	gggatttctagctacgtggtgtatc	AA142794

TABLE 1

SEQ ID NO	sequence	DBAxnID
12173	agcctgcgctttttcttacccagtga	J03298
12174	tcttacccagtgaaaacactgagca	J03298
12175	cttcccaggaagtctcatcccggag	J03298
12176	aggaagtctcatcccggagccacgg	J03298
12177	cactgtcttgcagaatactgacggg	J03298
12178	ctttgagcttttgtgccttgatgac	J03298
12179	gcttttgtgccttgatgacacccgg	J03298
12180	gtgccttgatgacacccggaaacct	J03298
12181	taagaactgccacctagccatagcc	J03298
12182	cccaaaccatgctgtagtgtctcgg	J03298
12183	ccatgctgtagtgtctcggacagac	J03298
12184	tgtagtgtctcggacagacaaggtg	J03298
12185	ttaatgttgcaactcaggctatgaa	M38248
12186	atgttgcaactcaggctatgaacag	M38248
12187	aatgtggccttgttacacaaagtgc	M38248
12188	cacaaagtgcaacccagaaaactga	M38248
12189	gtgcaacccagaaaactgatccaaa	M38248
12190	caacccagaaaactgatccaaagag	M38248
12191	cccagaaaactgatccaaagagact	M38248
12192	atgaaacttgtctctcattttaaga	M38248
12193	gagttgtcagatcccatggagctgg	M38248
12194	ttgtcagatcccatggagctggcat	M38248
12195	tcagatcccatggagctggcattaa	M38248
12196	gatcccatggagctggcattaaagc	M38248
12197	caactcaggctatgaacagtgcata	M38248
12198	catacatctaatatcacacaggcta	M38248
12199	acatctaatatcacacaggctaaaa	M38248
12200	tctaatatcacacaggctaaaatgg	M38248
12201	aatatcacacaggctaaaatggaca	M38248
12202	atcacacaggctaaaatggacagga	M38248
12203	tagattctgtggtctgcatagtgag	M38248
12204	attctgtggtctgcatagtgagcaa	M38248
12205	cttccagccacatcagcaaggagag	W55405
12206	tccagccacatcagcaaggagagca	W55405
12207	agagaccacctcagctgcaacctca	W55405
12208	agaccacctcagctgcaacctcaga	W55405
12209	accacctcagctgcaacctcagagg	W55405
12210	cacctcagctgcaacctcagaggga	W55405
12211	cctcagctgcaacctcagagggaaa	W55405
12212	tcagctgcaacctcagagggaaaac	W55405
12213	agctgcaacctcagagggaaaactg	W55405
12214	ctgcaacctcagagggaaaactgac	W55405
12215	ggaaaactgaccatgctgagccagg	W55405
12216	gctgagccaggcagtgcagaaagaa	W55405
12217	cagccacatcagcaaggagagcact	W55405
12218	tccatcttcaacgaagagctggtgt	W55405
12219	catcttcaacgaagagctggtgtcc	W55405
12220	tcttcaacgaagagctggtgtccga	W55405
12221	ggacagaatctaccaaaccacagag	W55405
12222	acagaatctaccaaaccacagagtc	W55405
12223	aggaagagaccacctcagctgcaac	W55405
12224	gaagagaccacctcagctgcaacct	W55405
12225	caatcaaacactatcaaaagctgcc	W55410
12226	atcaaacactatcaaaagctgccca	W55410
12227	ctgcccagtctggccgatggaaata	W55410
12228	gaaatacggtcagcacacaagcttt	W55410
12229	aatacggtcagcacacaagcttttg	W55410
12230	atacggtcagcacacaagcttttgt	W55410
12231	acggtcagcacacaagcttttgtca	W55410
12232	cggtcagcacacaagcttttgtcag	W55410
12233	gtcagcacacaagcttttgtcagaa	W55410
12234	tcagcacacaagcttttgtcagaaa	W55410
12235	agcacacaagcttttgtcagaaaca	W55410
12236	gcacacaagcttttgtcagaaacaa	W55410
12237	tcaaacactatcaaaagctgcccag	W55410
12238	aacactatcaaaagctgcccagtct	W55410
12239	cactatcaaaagctgcccagtctgg	W55410
12240	actatcaaaagctgcccagtctggc	W55410

SEQ ID NO	sequence	DBAxnID
54777	tgttctgtgtgtggcgtaacattgt	X53476
54778	ggaacttgccgagtcactggaacaa	X53476
54779	aacttgccgagtcactggaacaagt	X53476
54780	tgccgagtcactggaacaagttcaa	X53476
54781	ttggtgcagtttctcttggtcaaag	AA049350
54782	gaccaagccaaggtgcctgtccagc	AA049350
54783	acttacatcatcgtcaacaagatgg	AA049350
54784	tacatcatcgtcaacaagatggcgt	AA049350
54785	aagatggcgtaccctcagtgtaatt	AA049350
54786	taccctcagtgtaatttgctggcat	AA049350
54787	aatttgctggcatcctatttagaga	AA049350
54788	aggccaaagttcagcctcctgatgg	AA049350
54789	ttcagcctcctgatggtggtcttga	AA049350
54790	ctcctgatggtggtcttgagcctca	AA049350
54791	gtggtcttgagcctcatctttatga	AA049350
54792	gtcttgagcctcatctttatgaaag	AA049350
54793	cctgtccagctctcggagatggtaa	AA049350
54794	agcctcatctttatgaaaggctact	AA049350
54795	ttagacatcatcaaccgtgccaaca	AA049350
54796	gacatcatcaaccgtgccaacacta	AA049350
54797	atcaaccgtgccaacactaagctgg	AA049350
54798	cgtgccaacactaagctggagtgca	AA049350
54799	gagtgcaccttggttgtcaactga	AA049350
54800	tgcacctttggttgtcaactgaagg	AA049350
54801	acccacacttacatcatcgtcaaca	AA049350
54802	ctgttggctcccaggagagagatcc	X12944
54803	gagatcctggtcttgacctaggtgg	X12944
54804	acttcattgagtgttctcaaaagag	X12944
54805	taattctgcctaaaagtcagggtcg	X12944
54806	tgaaatgtcaaccctcactctaagc	X12944
54807	tagtggctttctgattttggtagtc	X12944
54808	ctttctgattttggtagtcatatca	X12944
54809	atattgttgcattgtctgcccatgt	X12944
54810	ttgcattgtctgcccatgtcctgcc	X12944
54811	tgtctgcccatgtcctgcctgaata	X12944
54812	cccatgtcctgcctgaataccatga	X12944
54813	tcctgcctgaataccatgattgttt	X12944
54814	ctggtcttgacctaggtggccacca	X12944
54815	gccaccaaggcacaacaatgccttg	X12944
54816	caacaatgccttgtggtctgggaaa	X12944
54817	tgccttgtggtctgggaaaactata	X12944
54818	ccctgtactatcaacatagacttaa	X12944
54819	actatcaacatagacttaattccct	X12944
54820	aattggtttcccagtccattgagtg	X12944
54821	tttcccagtccattgagtgatgggg	X12944
54822	tgagatccggagatccaaggactgt	X07888
54823	atccggagatccaaggactgtgagg	X07888
54824	cacttacaatctgtatgatgtccat	X07888
54825	caatctgtatgatgtccatgaacat	X07888
54826	tccatgaacatgttcaccggcaaca	X07888
54827	catgaacatgttcaccggcaacaac	X07888
54828	tgaacatgttcaccggcaacaacaa	X07888
54829	aacatgttcaccggcaacaacaaga	X07888
54830	tgttcaccggcaacaacaagatctg	X07888
54831	caccggcaacaacaagatctgtggc	X07888
54832	ccggcaacaacaagatctgtggctg	X07888
54833	acaacaagatctgtggctggaatta	X07888
54834	agatccaaggactgtgaggctacaa	X07888
54835	ttatgagtgccctaaatttgaagag	X07888
54836	atccaaggactgtgaggctacaatg	X07888
54837	tcaagacttttccggatgcatggcc	X07888
54838	aagacttttccggatgcatggcctc	X07888
54839	cttttccggatgcatggcctcttcg	X07888
54840	aacagtgacacttacaatctgtatg	X07888
54841	cagtgacacttacaatctgtatgat	X07888
54842	gtgacacttacaatctgtatgatgt	X07888
54843	agctatgcagaccgacccgcgggta	AA049486
54844	agcgacacgttagcgtctggttggt	AA049486

SEQ ID NO	sequence	DBAxnID
97381	ctcggactgctgtgtactatgcagt	AA142794
97382	ctgtgtactatgcagtctgaacaag	AA142794
97383	ccttcatatttcgctgagagacttt	AA142796
97384	aaatccatgaagggcttaggcactg	AA142796
97385	tctttgtactctttcatcaagggtg	AA142796
97386	tactctttcatcaagggtgacactt	AA142796
97387	tctttcatcaagggtgacacttccg	AA142796
97388	ggtgacacttccggagactacagga	AA142796
97389	gacacttccggagactacaggaagg	AA142796
97390	aaggttctgctcgttctctgtggag	AA142796
97391	gttctgctcgttctctgtggaggag	AA142796
97392	ctcgttctctgtggaggagatgatt	AA142796
97393	gattaacacaagacgccgcagacag	AA142796
97394	taacacaagacgccgcagacagaag	AA142796
97395	gatgacaacaccctcatcagagtga	AA142796
97396	gacaacaccctcatcagagtgatgg	AA142796
97397	aacaccctcatcagagtgatggtct	AA142796
97398	accctcatcagagtgatggtctcaa	AA142796
97399	gacatgctggacatccgggcgagct	AA142796
97400	atgctggacatccgggcgagcttca	AA142796
97401	ctggacatccgggcgagcttcaaga	AA142796
97402	ttcaagaggctctacgggaagtctt	AA142796
97403	aggccagcatgaagccctatgtgga	AA142800
97404	gcatgaagccctatgtggatggcaa	AA142800
97405	tatctatctatcacctttgctgcat	AA142800
97406	tctatcacctttgctgcatgtcact	AA142800
97407	gctgcatgtcacttcctctgctttc	AA142800
97408	ttcctctgctttcaaggagaatatt	AA142800
97409	gaatattccagacagtgttactttc	AA142800
97410	cagtgttactttccagtgtaaccat	AA142800
97411	tactttccagtgtaaccataagcct	AA142800
97412	ccagtgtaaccataagcctgcttag	AA142800
97413	taaccataagcctgcttagcttggg	AA142800
97414	taagcctgcttagcttggggtaaga	AA142800
97415	gagaacttccaactgccttcgacta	AA142800
97416	ttccaactgccttcgactacgtcga	AA142800
97417	attgatcaatcctcttggcttgtag	AA142800
97418	caatcctcttggcttgtaggcaagc	AA142800
97419	cctgacctacactgcttgccctgtt	AA142800
97420	ctacactgcttgccctgttatctct	AA142800
97421	tgcttgccctgttatctctatctat	AA142800
97422	ccctgttatctctatctatctatca	AA142800
97423	ttctcctgttccgaatgtggcaaga	AA142806
97424	tctcctgttccgaatgtggcaagag	AA142806
97425	gaagccttcagctgcagcgatgtgt	AA142806
97426	aagccttcagctgcagcgatgtgtg	AA142806
97427	agccttcagctgcagcgatgtgtgg	AA142806
97428	gccttcagctgcagcgatgtgtggc	AA142806
97429	ccttcagctgcagcgatgtgtggca	AA142806
97430	cttcagctgcagcgatgtgtggcaa	AA142806
97431	ttcagctgcagcgatgtgtggcaag	AA142806
97432	tcagctgcagcgatgtgtggcaaga	AA142806
97433	cagctgcagcgatgtgtggcaagag	AA142806
97434	agctgcagcgatgtgtggcaagagc	AA142806
97435	tcctgttccgaatgtggcaagagct	AA142806
97436	ctgcagcgatgtgtggcaagagctt	AA142806
97437	cctgttccgaatgtggcaagagctt	AA142806
97438	ctgttccgaatgtggcaagagcttt	AA142806
97439	tgttccgaatgtggcaagagcttta	AA142806
97440	ctttaccggagcgcctacctggctg	AA142806
97441	cgagaagccttcagctgcagcgatg	AA142806
97442	gagaagccttcagctgcagcgatgt	AA142806
97443	agaagccttcagctgcagcgatgtg	AA142806
97444	atgcgcgttctcttcagaatctgga	AA142360
97445	gcgcgttctcttcagaatctggatt	AA142360
97446	atttcccttgatacagtgaatatca	AA142360
97447	agtgaatatcatgctccaagctgtg	AA142360
97448	aatatcatgctccaagctgtgactc	AA142360

TABLE 1

SEQ ID NO	sequence	DBAxnID
12241	tatcaaaagctgcccagtctggccg	W55410
12242	atcaaaagctgcccagtctggccga	W55410
12243	aagctgcccagtctggccgatggaa	W55410
12244	agctgcccagtctggccgatggaaa	W55410
12245	aagagaaaccctgctttctgagaag	L00681
12246	gtttggtgcacagtggcatgtgtct	L00681
12247	aaccaagcctccagcaaatttgatg	L00681
12248	gcctccagcaaatttgatgttgtcc	L00681
12249	ctctagttctttgctgttcattgag	L00681
12250	ttctttgctgttcattgagatgggc	L00681
12251	cttgttctctcagaattttccagcc	L00681
12252	ctctcagaattttccagccgccttc	L00681
12253	tttcagtttctcacagactcctaga	L00681
12254	acagactcctagaagttctgttttg	L00681
12255	ccccactgcccttgataaagtgatt	L00681
12256	cactgcccttgataaagtgattcta	L00681
12257	tgtgtctcatggattccaaagagtg	L00681
12258	gaagaccctgcaatgagcatggtgc	L00681
12259	atgagcatggtgcagccatgaagac	L00681
12260	cagccatgaagacccacctgcaggg	L00681
12261	cacccagtagtctggccacagtaa	L00681
12262	agtagtctggccacagtaaaccaag	L00681
12263	ctggccacagtaaaccaagcctcca	L00681
12264	acagtaaaccaagcctccagcaaat	L00681
12265	ggtcgggaccaggctctgagaattg	W71503
12266	tcgggaccaggctctgagaattgga	W71503
12267	gaggcctcgtgttgttttcagcaaa	W71503
12268	ggcctcgtgttgttttcagcaaatt	W71503
12269	ttttcagcaaattccaattcatcat	W71503
12270	ttcagcaaattccaattcatcatgt	W71503
12271	cagcaaattccaattcatcatgtat	W71503
12272	gcaaattccaattcatcatgtatgg	W71503
12273	aaattccaattcatcatgtatggag	W71503
12274	attccaattcatcatgtatggagct	W71503
12275	tccaattcatcatgtatggagcttt	W71503
12276	caattcatcatgtatggagctttca	W71503
12277	tgatgttttgtgtggcgcctcctga	W71503
12278	atgttttgtgtggcgcctcctgaat	W71503
12279	gttttgtgtggcgcctcctgaatta	W71503
12280	tttgtgtggcgcctcctgaattaga	W71503
12281	tggcgcctcctgaattagaaaccaa	W71503
12282	gcgcctcctgaattagaaaccaaga	W71503
12283	acataaccaatggaggcctcgtgtt	W71503
12284	aatggaggcctcgtgttgttttcag	W71503
12285	actggaacgcacttctgtgaggtgg	M27695
12286	acgcacttctgtgaggtggagcaga	M27695
12287	gtgcagaagaccctctatgatatac	M27695
12288	aagaccctctatgatatacaagtgc	M27695
12289	ctgtccctgagccagcttcctgaga	M27695
12290	gaaatcagccttccgaacattcact	M27695
12291	attcactactttaacatcgacatgt	M27695
12292	tactttaacatcgacatgtccaaaa	M27695
12293	aacatcgacatgtccaaaatgggac	M27695
12294	gttttgctgcctctcgacaatccct	M27695
12295	aagctgccttccaggctgtgacgtc	M27695
12296	ccttccaggctgtgacgtcatggct	M27695
12297	gtcattcactctggaatcaaagacc	M27695
12298	cttccaggctgtgacgtcatggctc	M27695
12299	gaccgatgctttgccactcaagtgt	M27695
12300	tgctttgccactcaagtgtactgca	M27695
12301	tactgcaagtggcgctaccagagac	M27695
12302	attgtcctgcagaaatttgctgggc	M27695
12303	aaatttgctgggccctatgacaaag	M27695
12304	ggtgaatactcaccttccgtgcaga	M27695
12305	tactcaccttccgtgcagaagaccc	M27695
12306	gcgatcacctcaagcagagaagaaa	W55393
12307	cgatcacctcaagcagagaagaaag	W55393
12308	tctgttttggtccttccatagcagt	W55393
54845	atggacccaagtgcgcggcgatttc	AA049486
54846	ggacccaagtgcgcggcgatttctt	AA049486
54847	ccaagtgcgcggcgatttctttgga	AA049486
54848	gtgcgcggcgatttctttggaacag	AA049486
54849	atttctttggaacagcttgctgtcc	AA049486
54850	ttggaacagcttgctgtccagtggt	AA049486
54851	ggaacagcttgctgtccagtggtgc	AA049486
54852	aacagcttgctgtccagtggtgcgc	AA049486
54853	ggccgctccgtagtgctcacgtcgc	AA049486
54854	cgtagtgctcacgtcgcacagcatg	AA049486
54855	cgacacgttagcgtctggttggtga	AA049486
54856	ttggtgacccagctgtggtctttct	AA049486
54857	tgacccagctgtggtctttctggac	AA049486
54858	agctgtggtctttctggacgagccc	AA049486
54859	ctgtggtctttctggacgagcccac	AA049486
54860	caccacaggcatggacccaagtgcg	AA049486
54861	ccacaggcatggacccaagtgcgcg	AA049486
54862	gcatggacccaagtgcgcggcgatt	AA049486
54863	tgcctgatggtcgtgatgttggatg	X74938
54864	tcttgattgacctgtgttggacatc	X74938
54865	ctttttgacattctggatgcatgg	X74938
54866	tgacattctggatgcatggaaggtc	X74938
54867	acatctcagcatgctgctatgcacc	X74938
54868	gctgctatgcaccaagatagatggt	X74938
54869	agatggttaccacaggcctgccatc	X74938
54870	caggcctgccatctccttggtggag	X74938
54871	cagacctatcgagtttttctctgaa	X74938
54872	agttcctactgaggtcaagttcttg	X74938
54873	ggtcaagttcttgtctggggcttgg	X74938
54874	ctgcctgtgtttggccattaaaaag	X74938
54875	ttgacctgtgttggacatcttgatt	X74938
54876	acagaacacatcttctttggctcat	X74938
54877	ttctttggctcattttatcctggga	X74938
54878	ggctcattttatcctgggatcgcct	X74938
54879	tggcagacttcttggttcagcagat	X74938
54880	acttcttggttcagcagatgccaaa	X74938
54881	tgccaaattggccaccatatcacat	X74938
54882	attggccaccatatcacatggtgtc	X74938
54883	ctgacggtctctacctcggctcaga	X86682
54884	acctcggctcagagtgggacctggg	X86682
54885	atgtgttgtgcactgcactttacag	X86682
54886	tgtgcactgcactttacagtttgca	X86682
54887	ctgcactttacagtttgcaaagttt	X86682
54888	tttccagaagcctctgtgaggcctt	X86682
54889	ggccttcatcgccttccttgtaggt	X86682
54890	catcgccttccttgtaggtgctgcc	X86682
54891	tcctcaaagttctccaggcaagtgc	X86682
54892	aagttctccaggcaagtgccctcgg	X86682
54893	ccctcggcacttgctactgtgtttt	X86682
54894	gctcctgctaccaattaaaactgtt	X86682
54895	gctcagagtgggacctgggaccagc	X86682
54896	acctgggaccagctccagagcgtca	X86682
54897	caggccctgacagggcatgaagtgt	X86682
54898	aaggacctctgagcctccaacaggg	X86682
54899	ctctgagcctccaacagggttttct	X86682
54900	tcgaagccaacacccctagaatcca	X86682
54901	cccctagaatccagatgggcctgtc	X86682
54902	agatgggcctgtctgacagaaaggc	X86682
54903	ataacataagccatgtgtcgaatac	AA049363
54904	taacataagccatgtgtcgaatacc	AA049363
54905	atagatatcattaccaaatgggtga	AA049363
54906	tagatatcattaccaaatgggtgac	AA049363
54907	agatatcattaccaaatgggtgacg	AA049363
54908	gatatcattaccaaatgggtgacgt	AA049363
54909	atatcattaccaaatgggtgacgtt	AA049363
54910	tatcattaccaaatgggtgacgtta	AA049363
54911	tcattaccaaatgggtgacgttagc	AA049363
54912	cattaccaaatgggtgacgttagca	AA049363
97449	tatcatgctccaagctgtgactctt	AA142360
97450	tcatgctccaagctgtgactcttat	AA142360
97451	gctccaagctgtgactcttatggac	AA142360
97452	tccaagctgtgactcttatggaccg	AA142360
97453	caagctgtgactcttatggaccgtg	AA142360
97454	agctgtgactcttatggaccgtgag	AA142360
97455	ctgtgactcttatggaccgtgaggc	AA142360
97456	gcgttctcttcagaatctggatttc	AA142360
97457	gttctcttcagaatctggatttccc	AA142360
97458	tctcttcagaatctggatttccctt	AA142360
97459	cagaatctggatttcccttgataca	AA142360
97460	gaatctggatttcccttgatacagt	AA142360
97461	atctggatttcccttgatacagtga	AA142360
97462	ctggatttcccttgatacagtgaat	AA142360
97463	ggatttcccttgatacagtgaatat	AA142360
97464	ctctggtccatttggcattattctt	Z22772
97465	tggcattattcttgagtgggcacag	Z22772
97466	tccctatcatggctttaaagcatga	Z22772
97467	cttacttatcagggcgtcaagtctg	Z22772
97468	tatcagggcgtcaagtctggtttcc	Z22772
97469	tggaactgctcatttccacattttt	Z22772
97470	aagcaaatcatcttgcatagatgcc	Z22772
97471	atcatcttgcatagatgcctgagac	Z22772
97472	agatgcctgagacttttctgccacc	Z22772
97473	acttccctaacactcagcttcatca	Z22772
97474	ctaacactcagcttcatcagccaat	Z22772
97475	ttcatcagccaatgggagcagggga	Z22772
97476	tattcttgagtgggcacagcctggc	Z22772
97477	atcctgtttccaacaccaattcatc	Z22772
97478	tttccaacaccaattcatctgagca	Z22772
97479	acaccaattcatctgagcaacccca	Z22772
97480	attcatctgagcaaccccagtctct	Z22772
97481	tgctgaagaccacgtctgtctctct	Z22772
97482	tctctctgactttcccctatcatgg	Z22772
97483	tcccctatcatggcttttaaagcat	Z22772
97484	gagtcgtgatcgaccgacatttggc	W08759
97485	tgatcgaccgacatttggctgcccg	W08759
97486	acatgccttcggactatatactgca	W08759
97487	actatatactgcatgagctgctcca	W08759
97488	atatactgcatgagctgctccagaa	W08759
97489	cgatactcgacagtcacatacacac	W08759
97490	tactcgacagtcacatacacactac	W08759
97491	acagtcacatacacactacctagag	W08759
97492	gtcacatacacactacctagagtcg	W08759
97493	acatacacactacctagagtcgatc	W08759
97494	tacacactacctagagtcgatcaga	W08759
97495	ctacctagagtcgatcagatgtgct	W08759
97496	tcgaccgacatttggctgcccggtc	W08759
97497	tacctagagtcgatcagatgtgctc	W08759
97498	accgacatttggctgcccggtcaag	W08759
97499	gacatttggctgcccggtcaagcta	W08759
97500	ctgcccggtcaagctacaatcacat	W08759
97501	cccggtcaagctacaatcacatgcc	W08759
97502	ggtcaagctacaatcacatgccttc	W08759
97503	gctacaatcacatgccttcggacta	W08759
97504	atcacatgccttcggactatatact	W08759
97505	ttcggcacgatgagagcctggaacc	W08763
97506	tcggcacgatgagagcctggaaccc	W08763
97507	tctaccttggggcagctcaggcacc	W08763
97508	ctaccttggggcagctcaggcacca	W08763
97509	tacgcagttgagttctcccacgctc	W08763
97510	cagttgagttctcccacgctctggc	W08763
97511	agttgagttctcccacgctctggcc	W08763
97512	ttgagttctcccacgctctggccgt	W08763
97513	tgagttctcccacgctctggccgtg	W08763
97514	aagctggcagcagctatccatgggc	W08763
97515	agctggcagcagctatccatgggcg	W08763
97516	gctggcagcagctatccatgggcgg	W08763

TABLE 1

SEQ ID NO	sequence	DBAxnID
12309	tgttttggtccttccatagcagtca	W55393
12310	gttttggtccttccatagcagtcaa	W55393
12311	tttggtccttccatagcagtcaaga	W55393
12312	ttggtccttccatagcagtcaagac	W55393
12313	ggtccttccatagcagtcaagactt	W55393
12314	gtccttccatagcagtcaagacttg	W55393
12315	ccttccatagcagtcaagacttgga	W55393
12316	cttccatagcagtcaagacttggat	W55393
12317	tccatagcagtcaagacttggatga	W55393
12318	atcacctcaagcagagaagaaagat	W55393
12319	tcacctcaagcagagaagaaagatg	W55393
12320	aggaggttccccatcacctatgctg	W55393
12321	ggaggttccccatcacctatgctgg	W55393
12322	atcacctatgctggactctgttttg	W55393
12323	tcacctatgctggactctgttttgg	W55393
12324	gactctgttttggtccttccatagc	W55393
12325	ctctgttttggtccttccatagcag	W55393
12326	ggagctcgcagcatctcttctagac	W57535
12327	gagctcgcagcatctcttctagaca	W57535
12328	ctccagggtctgtgggagtcaaaca	W57535
12329	tccagggtctgtgggagtcaaacaa	W57535
12330	tgcttacggactcccgggtcatggg	W57535
12331	gggaacacggcgatcgccaagaaag	W57535
12332	ggaacacggcgatcgccaagaaagg	W57535
12333	aacacggcgatcgccaagaaaggca	W57535
12334	tcccccgagtaatgctgggcttgag	W57535
12335	cccccgagtaatgctgggcttgagg	W57535
12336	ccccgagtaatgctgggcttgagga	W57535
12337	cccgagtaatgctgggcttgaggat	W57535
12338	agctcgcagcatctcttctagacac	W57535
12339	gctcgcagcatctcttctagacacc	W57535
12340	tcgcagcatctcttctagacaccca	W57535
12341	agcatctcttctagacacccagccg	W57535
12342	tcttctagacacccagccgctctgt	W57535
12343	ttctagacacccagccgctctgtgc	W57535
12344	cgctccagggtctgtgggagtcaaa	W57535
12345	gctccagggtctgtgggagtcaaac	W57535
12346	ccaccatggttcagtgcttcggcca	W55418
12347	cacatcaacccagcggtgacagtgg	W55418
12348	tcatcggagctgggatctctacctg	W55418
12349	gctgggatctctacctggtcacacc	W55418
12350	ctgggatctctacctggtcacaccc	W55418
12351	tgggagtcacacggttcatggaaac	W55418
12352	gagtcacacggttcatggaaacctc	W55418
12353	agtcacacggttcatggaaacctca	W55418
12354	tcatggaaacctcactgctggcatg	W55418
12355	catggaaacctcactgctggcatgg	W55418
12356	tggaaacctcactgctggcatgggt	W55418
12357	cctcactgctggcatgggtcctggt	W55418
12358	acatcaacccagcggtgacagtggc	W55418
12359	actgctggcatgggtcctggtggac	W55418
12360	atcaacccagcggtgacagtggcca	W55418
12361	tcaacccagcggtgacagtggccat	W55418
12362	aacccagcggtgacagtggccatgg	W55418
12363	acccagcggtgacagtggccatggt	W55418
12364	gccatcatcggagctgggatctcta	W55418
12365	ccatcatcggagctgggatctctac	W55418
12366	atcatcggagctgggatctctacct	W55418
12367	gctgtttcccttaatgggtcattca	M17922
12368	tcccttaatgggtcattcatgagat	M17922
12369	ctgtatctaactgcaagtctaggta	M17922
12370	atttccctaactccagactgtgatg	M17922
12371	ctaactccagactgtgatgcggggc	M17922
12372	tgtgatgcggggccatttggtcttc	M17922
12373	ccatttggtcttccatgtgatgctc	M17922
12374	gatgctccacgtgaatgtatcattc	M17922
12375	gaatgtatcattcccgggcgtgacc	M17922
12376	gtccacttcttggccagttatcttt	M17922

SEQ ID NO	sequence	DBAxnID
54913	attaccaaatgggtgacgttagcag	AA049363
54914	tgaagtatccagcagtttagatcta	AA049363
54915	gaagtatccagcagtttagatctag	AA049363
54916	aagtatccagcagtttagatctaga	AA049363
54917	agtatccagcagtttagatctagaa	AA049363
54918	gtatccagcagtttagatctagaac	AA049363
54919	tatccagcagtttagatctagaact	AA049363
54920	atccagcagtttagatctagaacta	AA049363
54921	tagatctagaactatctctgaatcg	AA049363
54922	gttgctcaagtcttatggccaggag	X52875
54923	ggcggccattgaacagcctgtggcc	X52875
54924	aggcagtagccttgtctgtctctgt	X52875
54925	tgtctgtctctgtcctcagacaaac	X52875
54926	tctctgtcctcagacaaactgggca	X52875
54927	gccttttctccatcacagcttcctg	X52875
54928	tcacagcttcctgagttccagaggc	X52875
54929	tcactgctatggtggctgagattgt	X52875
54930	agattgtgcctaaggcccctggagt	X52875
54931	tgcctaaggcccctggagtggcctg	X52875
54932	gagtccgccaaggaactcacttact	X52875
54933	gccaaggaactcacttacttatgta	X52875
54934	agattatctatcctggccagcatcc	X52875
54935	aggttcaagtcctgcaactcctgga	X52875
54936	tgcaactcctggagtcaacatggcc	X52875
54937	tcgcctcaaggccaaagagttcagc	X52875
54938	ccacagccaggtgcccacagtgaac	X52875
54939	gcccacagtgaactgactgtgcatt	X52875
54940	ctgactgtgcattgggtccagcttc	X52875
54941	tggcccaatggcagactgcagcaaa	X52875
54942	acaataacagccccgaaggcagctc	X62669
54943	gccccgaaggcagctccactgtcat	X62669
54944	ccagcaattggctcactgcaaagag	X62669
54945	attggctcactgcaaagagtggcag	X62669
54946	tcactgcaaagagtggcagagagaa	X62669
54947	agaggtgcccttacaccaagcacca	X62669
54948	agcgccgcctagagatcagtaagag	X62669
54949	agagcgttaacctcaccgacaggca	X62669
54950	gcgttaacctcaccgacaggcaggt	X62669
54951	agaatcgaatccgagaactgaccgc	X62669
54952	gaatccgagaactgaccgccaacct	X62669
54953	gagaactgaccgccaacctcacctt	X62669
54954	ccgaaggcagctccactgtcatgct	X62669
54955	aaggcagctccactgtcatgctcca	X62669
54956	cggctgcccagctgcagatggaaaa	X62669
54957	cgagcgcccaggagcccactaaagt	X62669
54958	ccactaaagtctcccaagtggagag	X62669
54959	tttccgtgtccagtcccgaagtgca	X62669
54960	aaatcaagtctgatactccaaccag	X62669
54961	atactccaaccagcaattggctcac	X62669
54962	gctcttcaagatgtagcccaaagaa	M33226
54963	ttccgtggtgccggaagtgccgagt	M33226
54964	gagatgaccatttgcttttggtcct	M33226
54965	tgaccatttgcttttggtcctcacg	M33226
54966	accatttgcttttggtcctcacgat	M33226
54967	tttgcttttggtcctcacgatcccg	M33226
54968	tgcttttggtcctcacgatcccgtt	M33226
54969	tcacgatcccgttgtgcttagcgtc	M33226
54970	acgatcccgttgtgcttagcgtcaa	M33226
54971	ccgttgtgcttagcgtcaattgcaa	M33226
54972	tgtgcttagcgtcaattgcaattcc	M33226
54973	gtcaattgcaattccttctctcata	M33226
54974	agaagtgccctgtgtgcccgacatg	M33226
54975	caattgcaattccttctctcataaa	M33226
54976	ccccagtgcccaaagcagccattgt	M33226
54977	tgcccaaagcagccattgtgcgaag	M33226
54978	cccaaagcagccattgtgcgaagaa	M33226
54979	caaagcagccattgtgcgaagaaag	M33226
54980	cacccaagctccaaatacacagcat	M33226

SEQ ID NO	sequence	DBAxnID
97517	ctggcagcagctatccatgggcggc	W08763
97518	ggtgctctaccttggggcagctcag	W08763
97519	tgctctaccttggggcagctcaggc	W08763
97520	gctctaccttggggcagctcaggca	W08763
97521	ctctaccttggggcagctcaggcac	W08763
97522	tctcaggactcagtcaagaggatct	AA142707
97523	ctcaggactcagtcaagaggatctg	AA142707
97524	tcatgacggcggaactctcgtggca	AA142707
97525	tgacggcggaactctcgtggcagct	AA142707
97526	cggcggaactctcgtggcagctcgc	AA142707
97527	ctctcgtggcagctcgcagagcagc	AA142707
97528	tctcgtggcagctcgcagagcagcg	AA142707
97529	cgtggcagctcgcagagcagcgcga	AA142707
97530	cagctcgcagagcagcgcgatcatg	AA142707
97531	agctcgcagagcagcgcgatcatga	AA142707
97532	ctcgcagagcagcgcgatcatgaga	AA142707
97533	cagagcagcgcgatcatgagataga	AA142707
97534	ttcagcgtccaaagaagaaggacct	AA142707
97535	gagacgcaagtctcatgacggcgga	AA142707
97536	gacgcaagtctcatgacggcggaac	AA142707
97537	acgcaagtctcatgacggcggaact	AA142707
97538	gcaagtctcatgacggcggaactct	AA142707
97539	caagtctcatgacggcggaactctc	AA142707
97540	agtctcatgacggcggaactctcgt	AA142707
97541	ctcatgacggcggaactctcgtggc	AA142707
97542	ttcttctggctcgaaaataaggatg	AA143956
97543	cttctggctcgaaaataaggatgtc	AA143956
97544	ctttacacactcatgactcgctgct	AA143956
97545	acacactcatgactcgctgctggga	AA143956
97546	acactcatgactcgctgctgggact	AA143956
97547	actcatgactcgctgctgggactac	AA143956
97548	tcatgactcgctgctgggactacga	AA143956
97549	gactcgctgctgggactacgacccc	AA143956
97550	ttcacggagcttgtgtgcagcctca	AA143956
97551	gtgtgcagcctcagtgacatttatc	AA143956
97552	gtgcagcctcagtgacatttatcag	AA143956
97553	gcagcctcagtgacatttatcagat	AA143956
97554	ggatgtcatcggagtgctggagaaa	AA143956
97555	atgtcatcggagtgctggagaaagg	AA143956
97556	gacaggctgcccaagcccgaactct	AA143956
97557	caggctgcccaagcccgaactctgt	AA143956
97558	actctgtccgcctgtcctttacaca	AA143956
97559	cctgtcctttacacactcatgactc	AA143956
97560	tgtcctttacacactcatgactcgc	AA143956
97561	tcctttacacactcatgactcgctg	AA143956
97562	gatgctccactaatgcagtacaaca	AA143979
97563	gctccactaatgcagtacaacatcg	AA143979
97564	tagccctaacaatggcaaaccaggc	AA143979
97565	ccctaacaatggcaaaccaggcaat	AA143979
97566	caatggcaaaccaggcaatgatcta	AA143979
97567	caaaccaggcaatgatctaaccaag	AA143979
97568	caatgatctaaccaagaaggggcgc	AA143979
97569	ctggttgcctaagcagtgggaaact	AA143979
97570	tctcctaatcatcctggtaggacat	AA143979
97571	cctaatcatcctggtaggacatcac	AA143979
97572	aatcatcctggtaggacatcacttt	AA143979
97573	catcctggtaggacatcactttact	AA143979
97574	ccactaatgcagtacaacatcggat	AA143979
97575	ctaatgcagtacaacatcggatgaa	AA143979
97576	atgcagtacaacatcggatgaaaat	AA143979
97577	tgaaaatctcccggaaattcagcaa	AA143979
97578	tctcccggaaattcagcaacctggg	AA143979
97579	aattcagcaacctgggaataagtgg	AA143979
97580	gtgcattagccctaacaatggcaaa	AA143979
97581	cattagccctaacaatggcaaacca	AA143979
97582	ctagctccaaaagacgtgaagatca	AA143937
97583	tcaggatatctgcaccccaggagag	AA143937
97584	tgcttccctggacacctttaagaag	AA143937

TABLE 1

SEQ ID NO	sequence	DBAxnID
12377	ctaattagcctagttcatccaatcc	M17922
12378	agcctagttcatccaatcctcactg	M17922
12379	tcattcatgagatctgctgttggga	M17922
12380	atgatttcccaattaggaagtgcaa	M17922
12381	acactaacggcttgagggaacagct	M17922
12382	tctagcatcccatgaatggatcagg	M17922
12383	atcccatgaatggatcaggaaatgt	M17922
12384	gtatgtttgttcactctgcacaggc	M17922
12385	actctgcacaggctgtgagtataag	M17922
12386	gtatttctgtatctaactgcaagtc	M17922
12387	tgggccatcaggtctcttgtggctg	L31783
12388	atcaggtctcttgtggctgaaacat	L31783
12389	cttcacaaacgctcccttctgtgtt	L31783
12390	aagtgccctctttggtcgccacaag	L31783
12391	tggtcgccacaagccatggcacggg	L31783
12392	ccacaagccatggcacgggacgtct	L31783
12393	tatgttcaatacaactgtggatcac	L31783
12394	caatacaactgtggatcacagcagc	L31783
12395	cagcagctgagctgtgatgagctcg	L31783
12396	tgtgatgagctcggggctgccttct	L31783
12397	gccttctgctagtgctgggctggtt	L31783
12398	tgctgggctggttttgttgaactga	L31783
12399	tctcttgtggctgaaacattgtctc	L31783
12400	ttgtctcccaattctgcaggcagcc	L31783
12401	cccaattctgcaggcagccttgaac	L31783
12402	agttcatggctagcatgccaggcag	L31783
12403	tggctagcatgccaggcaggctctc	L31783
12404	caggtgaccgtggctgcctaaagcc	L31783
12405	accgtggctgcctaaagccagctag	L31783
12406	tcaagctcctggcttcacaaacgct	L31783
12407	ggcacaagccgccatcaacgctcta	AA041634
12408	acaagccgccatcaacgctctacat	AA041634
12409	cacaatgcgacggatgcagcagatg	AA041634
12410	aatgcgacggatgcagcagatggct	AA041634
12411	gggcatgttcaaccccatggccatc	AA041634
12412	agcctatggcgcctatgctcaggca	AA041634
12413	tgctcaggcactgatgcagcagcaa	AA041634
12414	tcaggcactgatgcagcagcaagca	AA041634
12415	actgatgcagcagcaagcagccctc	AA041634
12416	gcagcagcaagcagccctcatggca	AA041634
12417	gcaagcagccctcatggcatcggtc	AA041634
12418	agcagccctcatggcatcggtcgcg	AA041634
12419	catcaacgctctacatggcagccag	AA041634
12420	caacgctctacatggcagccagacc	AA041634
12421	tctacatggcagccagaccatgcct	AA041634
12422	acatggcagccagaccatgcctgga	AA041634
12423	ctcctccagcctggtggtcaagttt	AA041634
12424	cagcctggtggtcaagtttgcagac	AA041634
12425	gtttgcagacactgacaaggagcgc	AA041634
12426	gcgcacaatgcgacggatgcagcag	AA041634
12427	aggtggcacctgattcacaggccta	L07803
12428	cacctgattcacaggcctaagacag	L07803
12429	caatgtgctgcaaacacccctttt	L07803
12430	cttgtggcttttctgtcatttggca	L07803
12431	tgtttcttgaccttaactgagtgga	L07803
12432	gagtggatctacacctccttcatca	L07803
12433	agcaccaagtccaagtgtcttcaaa	L07803
12434	aacatcaattgcactccaagagctt	L07803
12435	aattgcactccaagagcttccagcc	L07803
12436	actccaagagcttccagcctgctgc	L07803
12437	agagcttccagcctgctgctggaaa	L07803
12438	aagaccgagcattccgctgtgttgc	L07803
12439	gctgactcaggaccaatttatgacc	L07803
12440	tatgaccaaacctacgctggtggac	L07803
12441	caaacctacgctggtggacggctgg	L07803
12442	ggcctgtttgtcttctcccaagaga	L07803
12443	tttgtcttctcccaagagatggtct	L07803
12444	ttctcccaagagatggtctatttct	L07803
54981	ccaaatacacagcataaaggctgtt	M33226
54982	atacacagcataaaggctgttgagc	M33226
54983	aaggactgagtgctccgcggcccgc	X62669
54984	cggcccagaattcccgtgcaactcg	X62669
54985	cagcaacttgacccaaacaaccctg	X62669
54986	cttgacccaaacaaccctgcagcga	X62669
54987	acaaccctgcagcgaactggatcca	X62669
54988	aaccctgcagcgaactggatccacg	X62669
54989	ccctgcagcgaactggatccacgct	X62669
54990	ggaattcctcttcaacatgtacctc	X62669
54991	aattcctcttcaacatgtacctcac	X62669
54992	cggcgctacgaggtggctaggattc	X62669
54993	gcgctacgaggtggctaggattctg	X62669
54994	aggattctgaaccttacagagagac	X62669
54995	cgtgcaactcgttcctgcgggacaa	X62669
54996	tgcaactcgttcctgcgggacaagg	X62669
54997	caactcgttcctgcgggacaaggca	X62669
54998	actcgttcctgcgggacaaggcagc	X62669
54999	ctcagcttgcagcgatcacccgagc	X62669
55000	gcttgcagcgatcacccgagcccgg	X62669
55001	ccgcagcagcaacttgacccaaaca	X62669
55002	gcagcagcaacttgacccaaacaac	X62669
55003	cggcacgatgccatactctggccct	W99235
55004	ggcacgatgccatactctggccctc	W99235
55005	tctggccctcacggagagacaggta	W99235
55006	tggccctcacggagagacaggtaaa	W99235
55007	gctgaaggctgccccacaaattaaa	W99235
55008	ctctacctttacacttctaccacag	W99235
55009	tacctttacacttctaccacagact	W99235
55010	cctttacacttctaccacagactat	W99235
55011	ctttacacttctaccacagactatt	W99235
55012	ttctaccacagactattaagactga	W99235
55013	tctaccacagactattaagactgat	W99235
55014	accacagactattaagactgatgat	W99235
55015	acgatgccatactctggccctcacg	W99235
55016	gatgccatactctggccctcacgga	W99235
55017	atgccatactctggccctcacggag	W99235
55018	gccatactctggccctcacggagag	W99235
55019	ccatactctggccctcacggagaga	W99235
55020	atactctggccctcacggagagaca	W99235
55021	tactctggccctcacggagagacag	W99235
55022	ctctggccctcacggagagacaggt	W99235
55023	agttcgggtgacggcatgtcatgtg	AA049761
55024	gggacctcggcgttcacgagagtca	AA049761
55025	gtccatgagccaggacctcacatct	AA049761
55026	tccatgagccaggacctcacatctt	AA049761
55027	catgagccaggacctcacatcttac	AA049761
55028	atgagccaggacctcacatcttact	AA049761
55029	gagccaggacctcacatcttactgt	AA049761
55030	agccaggacctcacatcttactgtt	AA049761
55031	ccaggacctcacatcttactgttcc	AA049761
55032	caggacctcacatcttactgttccg	AA049761
55033	tgttccgacgggcactggccagaga	AA049761
55034	ttccgacgggcactggccagagaag	AA049761
55035	gacctcggcgttcacgagagtcatg	AA049761
55036	acctcggcgttcacgagagtcatgg	AA049761
55037	ctcggcgttcacgagagtcatggat	AA049761
55038	gcgttcacgagagtcatggatgggt	AA049761
55039	ttcacgagagtcatggatgggtcca	AA049761
55040	gtccactatatggtccatgagccag	AA049761
55041	tccactatatggtccatgagccagg	AA049761
55042	actatatggtccatgagccaggacc	AA049761
55043	tgagaatcagaccaccagaaatctg	AA049790
55044	gaatcagaccaccagaaatctggac	AA049790
55045	gcttcaaggacctgtctttgtaggt	AA049790
55046	tcaaggacctgtctttgtaggtgtg	AA049790
55047	acctgtctttgtaggtgtgcccctg	AA049790
55048	tgtctttgtaggtgtgcccctgctg	AA049790
97585	tccctggacacctttaagaagatgt	AA143937
97586	cctggacacctttaagaagatgtgg	AA143937
97587	acggtgcccgatccatccacaggaa	AA143937
97588	tgcccgatccatccacaggaaaacc	AA143937
97589	cgatccatccacaggaaaaccttct	AA143937
97590	accttctaacgttgcaacatcacca	AA143937
97591	cttctaacgttgcaacatcaccacc	AA143937
97592	tctaacgttgcaacatcaccacctc	AA143937
97593	gttgcaacatcaccacctctctctg	AA143937
97594	aggatatctgcaccccaggagagac	AA143937
97595	gatatctgcaccccaggagagactg	AA143937
97596	tctgcaccccaggagagactgtatt	AA143937
97597	tgcaccccaggagagactgtattcc	AA143937
97598	caccccaggagagactgtattccac	AA143937
97599	gagactgtattccacatggattgga	AA143937
97600	gtattccacatggattggaggttct	AA143937
97601	attccacatggattggaggttctat	AA143937
97602	gaattctggttttctctctcatgatt	AA143991
97603	tttacacaacagtggcttctgtcac	AA143991
97604	tgaggtcaccctgtagcttggcggt	AA143991
97605	tggggccttcaggttgcagatgtac	AA143991
97606	gctgtagtcacggaacccacaggta	AA143991
97607	ggtactcagaggcatcagctggcca	AA143991
97608	actcagaggcatcagctggccatcc	AA143991
97609	aggcatcagctggccatccggctga	AA143991
97610	catcagctggccatccggctgaagg	AA143991
97611	gccatccggctgaaggttgcagtgc	AA143991
97612	atccggctgaaggttgcagtgcacc	AA143991
97613	aaggttgcagtgcaccgtggactca	AA143991
97614	acacaacagtggcttctgtcacctc	AA143991
97615	tggcttctgtcacctcaacagcaat	AA143991
97616	cttctgtcacctcaacagcaatgcc	AA143991
97617	ctgtcacctcaacagcaatgccatc	AA143991
97618	cctcaacagcaatgccatcatcacg	AA143991
97619	cagcaatgccatcatcacgtcaaat	AA143991
97620	tgccatcatcacgtcaaatgaggtc	AA143991
97621	catcatcacgtcaaatgaggtcacc	AA143991
97622	cgaaggtcccggaccagtatgcaga	W14826
97623	aggtcccggaccagtatgcagatgg	W14826
97624	tgcgccacgacgggtgccacagggt	W14826
97625	gccacagggtgctggacgtagcctg	W14826
97626	tgctggacgtagcctgtgcacagga	W14826
97627	acgtagcctgtgcacaggagtggac	W14826
97628	cctgtgcacaggagtggactccatc	W14826
97629	agtggactccatcatgctggtggaa	W14826
97630	ggactccatcatgctggtggaagag	W14826
97631	ctccatcatgctggtggaagagggc	W14826
97632	cgtggacgccagcgacaagatgctg	W14826
97633	atatgcgcttaaggagcgctggaac	W14826
97634	aggccgcacgtgtgtggcagctgta	W14826
97635	tgcgcttaaggagcgctggaaccgg	W14826
97636	ccgcacgtgtgtggcagctgtacat	W14826
97637	agctgtacatcggggacacccgcag	W14826
97638	cccgcagccgtaccgcagagtacaa	W14826
97639	gccgtaccgcagagtacaaggcgtg	W14826
97640	gtaccgcagagtacaaggcgtggtt	W14826
97641	acaaggcgtggttgcttgggctgtt	W14826
97642	tgttgcgccacgacgggtgccacag	W14826
97643	tcacctgagttcccttcaagcttca	AA144057
97644	ttcccttcaagcttcagtctaggag	AA144057
97645	ccccaatctctgacagtctgggaag	AA144057
97646	caatctctgacagtctgggaaggag	AA144057
97647	tctctgacagtctgggaaggagaga	AA144057
97648	accgcaattctgaactgcagttatg	AA144057
97649	attctgaactgcagttatgaggaca	AA144057
97650	ttcccatggtaccagcagttccctg	AA144057
97651	cctgcactcctgatatccatacgtt	AA144057
97652	gcactcctgatatccatacgttcag	AA144057

TABLE 1

SEQ ID NO	sequence	DBAxnID
12445	tatttctcggacctcaagtatgagt	L07803
12446	ctccagctccagcaatgtgctgcaa	L07803
12447	agcctgagctgcacacagtgcccac	M88354
12448	agctgcacacagtgcccacctatgc	M88354
12449	aagagggccatctctgacatggagc	M88354
12450	ggcatctgctgcagcgacgagagct	M88354
12451	acccgcgctcgggagccaagcaacg	M88354
12452	gagccaagcaacgccacacagctgg	M88354
12453	agcaacgccacacagctggacggcc	M88354
12454	acacgggagtccgtggattctgcca	M88354
12455	gagtccgtggattctgccaagcccc	M88354
12456	gtggattctgccaagccccgggtct	M88354
12457	tctgccaagccccgggtctactgag	M88354
12458	aagccccgggtctactgagccatcg	M88354
12459	tgcccacctatgctcgccaggatgc	M88354
12460	cctatgctcgccaggatgctcaaca	M88354
12461	ctcgccaggatgctcaacactacgc	M88354
12462	aggatgctcaacactacgctctccg	M88354
12463	gcttgtttcctgagcctgctggcct	M88354
12464	tgctacttccagaactgcccaagag	M88354
12465	ttccagaactgcccaagaggcggca	M88354
12466	aactgcccaagaggcggcaagaggg	M88354
12467	ccatgcagatcatgcggatcaaacc	M95200
12468	agatcatgcggatcaaacctcacca	M95200
12469	ccggcagacgcattcccgggcaggt	M95200
12470	gacgcattcccgggcaggtgaccaa	M95200
12471	ttcccgggcaggtgaccaagcacgt	M95200
12472	tgcctcgtgggactggattcgccat	M95200
12473	tcgccatttttcttatatctgctgct	M95200
12474	ttttcttatatctgctgctaaatcg	M95200
12475	tatatctgctgctaaatcgccaagc	M95200
12476	tgctgctaaatcgccaagcccggaa	M95200
12477	taaatcgccaagcccggaagattag	M95200
12478	tttctgggattcctgtagagctcgt	M95200
12479	tgcggatcaaacctcaccaaagcca	M95200
12480	ttctgggattcctgtagagctcgtg	M95200
12481	aaagccagcacatagagagaatgag	M95200
12482	gaatgagcttcctacagcacagcag	M95200
12483	tacagcacagcagatgtgaatgcag	M95200
12484	ccgattaaccatgtcaccaccatgc	M95200
12485	accatgccatcatcgtcaccgttga	M95200
12486	cagtccttaatccagaaagcctgat	M95200
12487	gagactccggcagacgcattcccgg	M95200
12488	atcctgtctcctgctccagagtaga	D16580
12489	cgggcacctctctgagggagctgat	D16580
12490	agacactgcctgtcccatctcactt	D16580
12491	ctcacttactcacccagtgtgactc	D16580
12492	tttaacttaggcccagatgcttctg	D16580
12493	ccagatgcttctgggctacaccagt	D16580
12494	gcttctgggctacaccagttcctgt	D16580
12495	caccagttcctgtttcgatgtgagt	D16580
12496	ttcctgtttcgatgtgagttttgaa	D16580
12497	ttttgaaatgctccgtgaagggctg	D16580
12498	gcagtaccaacttcctggcgaagaa	D16580
12499	ccaacttcctggcgaagaagccaag	D16580
12500	cctctctgagggagctgatgtggag	D16580
12501	atggcagccgcgtggctttgtagac	D16580
12502	ctgctacaatactccctggtggcat	D16580
12503	caatactccctggtggcattggttg	D16580
12504	tccctggtggcattggttgtctcag	D16580
12505	tctggaactccaggactcagacact	D16580
12506	actccaggactcagacactgcctgt	D16580
12507	ggactcagacactgcctgtcccatc	D16580
12508	tctgccttaaaccacgaacaacagc	X80992
12509	ttaaaccacgaacaacagcacagcg	X80992
12510	ctttcaggttccattcccagcaagg	X80992
12511	ggcagctcacacaggacctgcagcc	X80992
12512	tcacacaggacctgcagcctggcca	X80992
55049	gcccctgctgggccatcctgatttg	AA049790
55050	gctgggccatcctgatttgtatgct	AA049790
55051	tttgtatgctcattcatcagccatc	AA049790
55052	gtatgctcattcatcagccatccag	AA049790
55053	tcattcatcagccatccagtcggtg	AA049790
55054	atcagccatccagtcggtgtgagga	AA049790
55055	gaccaccagaaatctggacacctgt	AA049790
55056	catccagtcggtgtgaggatgagag	AA049790
55057	cagaaatctggacacctgtgccttc	AA049790
55058	tctggacacctgtgccttcagacct	AA049790
55059	ggacacctgtgccttcagacctgac	AA049790
55060	tgccttcagacctgacctgtgggaa	AA049790
55061	cttcagacctgacctgtgggaatgg	AA049790
55062	cagacctgacctgtgggaatggggc	AA049790
55063	gcagcttcaaggacctgtctttgta	AA049790
55064	actctctcggatgctcaacctcact	X71422
55065	ctctcggatgctcaacctcactgac	X71422
55066	acttcacgatttcttctcgccttca	X71422
55067	cccagcgaccactacagcctgagga	X71422
55068	agcgaccactacagcctgaggaaga	X71422
55069	aagaggcccggaacttggctgtgcg	X71422
55070	cccggaacttggctgtgcggatcct	X71422
55071	ctgagtcctcaacgcggcgagatct	X71422
55072	agtcctcaacgcggcgagatctgta	X71422
55073	tttctttcccttcagtgaacacaga	X71422
55074	ctttcccttcagtgaacacagatta	X71422
55075	gtacctttgggcatgagtcactgtc	X71422
55076	gttccagaatcgcaggatgaaagaa	X71422
55077	cagggaccgtctgcaatatttcact	X71422
55078	ccgtctgcaatatttcactggaaac	X71422
55079	ctgctctcagcaggcccaatgtcct	X71422
55080	atgtccttgggttcaatgacgcctc	X71422
55081	tcaatgacgcctcttctctgtggaa	X71422
55082	atgacgcctcttctctgtggaactt	X71422
55083	ctctgtggaacttcacgatttcttc	X71422
55084	taggacccccctgtctgacagtctgc	AA049830
55085	tctgacagtctgcgggagaactatg	AA049830
55086	tgacttgctgtcgcagctgatcagt	AA049830
55087	acttgctgtcgcagctgatcagtgt	AA049830
55088	cttgctgtcgcagctgatcagtgtc	AA049830
55089	tgctgtcgcagctgatcagtgtcaa	AA049830
55090	gctgtcgcagctgatcagtgtcaac	AA049830
55091	tgtcgcagctgatcagtgtcaacgc	AA049830
55092	tcttctgggtcagcgagtgctgtgg	AA049830
55093	tctgggtcagcgagtgctgtggact	AA049830
55094	ctgggtcagcgagtgctgtggacta	AA049830
55095	gggtcagcgagtgctgtggactatt	AA049830
55096	tgacagtctgcgggagaactatgtg	AA049830
55097	gagaactatgtgccggtggactggt	AA049830
55098	ctatgtgccggtggactggtgagac	AA049830
55099	tatgtgccggtggactggtgagaca	AA049830
55100	gccgccttagtgacttgctgtcgca	AA049830
55101	ccgccttagtgacttgctgtcgcag	AA049830
55102	gccttagtgacttgctgtcgcagct	AA049830
55103	tagtgacttgctgtcgcagctgatc	AA049830
55104	catctgaggaacgcagccggactag	X58849
55105	ttcattcggctctcaaaggcaccaa	X58849
55106	agaggaaaccctacacaaagcagca	X58849
55107	aaccctacacaaagcagcagattgc	X58849
55108	acacaaagcagcagattgcggagct	X58849
55109	tcaatgaattcatcaaccggcagaa	X58849
55110	tcaaccggcagaagcgtaaggaatt	X58849
55111	tgtctaacaggctgaacctcagcga	X58849
55112	acaggctgaacctcagcgaccagca	X58849
55113	tgaacctcagcgaccagcaggtcaa	X58849
55114	tcagcgaccagcaggtcaaaatctg	X58849
55115	tgcagcgcgagcaagcactggccct	X58849
55116	cggctctcaaaggcaccaagtatga	X58849
97653	ctcctgatatccatacgttcagtgt	AA144057
97654	atatccatacgttcagtgtccgata	AA144057
97655	tcaagcttcagtctaggaggaatgg	AA144057
97656	gacaagatcctgacagcaacgtttt	AA144057
97657	ctaggccttcacctagctggggtga	AA144057
97658	ggccttcacctagctggggtgaatg	AA144057
97659	aaacgtgaccagcagcaggtgagac	AA144057
97660	gtgagacaaagtccccaatctctga	AA144057
97661	agacaaagtccccaatctctgacag	AA144057
97662	caaagtccccaatctctgacagtct	AA144057
97663	ccaatcaggtcaacctcatcaccaa	M20480
97664	atcaggtcaacctcatcaccaacca	M20480
97665	tccttacgcagagtatctgtttgct	M20480
97666	gtatctgtttgcttgcagagtggct	M20480
97667	gtttgcttgcagagtggctttctgg	M20480
97668	tgcttgcagagtggctttctggctt	M20480
97669	agtggctttctggcttgctgccagc	M20480
97670	tgccagcctgtgcatggtccatgct	M20480
97671	cctgtgcatggtccatgcttatgag	M20480
97672	gtgcatggtccatgcttatgagttc	M20480
97673	catggtccatgcttatgagttcagg	M20480
97674	ccatgcttatgagttcaggatctat	M20480
97675	cagttgagttccagatcctatacaa	M20480
97676	agttccagatcctatacaaattaag	M20480
97677	tccagatcctatacaaattaagaag	M20480
97678	agatcctatacaaattaagaagtca	M20480
97679	gactttcaatgtgtgctatgaattt	M20480
97680	gtgctatgaatttcctccttacgca	M20480
97681	ctatgaatttcctccttacgcagag	M20480
97682	atttcctccttacgcagagtatctg	M20480
97683	tcaccagctggggccacgtggtcac	AA168061
97684	gccacgtggtcactgggtgccaagg	AA168061
97685	atagacctgccaggccttgcatcct	AA168061
97686	gacctgccaggccttgcatcctttg	AA168061
97687	ctgccaggccttgcatcctttggct	AA168061
97688	ggccttgcatcctttggctggtttt	AA168061
97689	gcatcctttggctggttttaaagct	AA168061
97690	ttttaaagcttgtcctgtcacgcta	AA168061
97691	taaagcttgtcctgtcacgctatgt	AA168061
97692	agcttgtcctgtcacgctatgtccc	AA168061
97693	ttatcctcggcgttaagacaagagc	AA168061
97694	tcctcggcgttaagacaagagcatg	AA168061
97695	acgtggtcactgggtgccaaggagc	AA168061
97696	tggtcactgggtgccaaggagctgt	AA168061
97697	tcactgggtgccaaggagctgtgca	AA168061
97698	cctgaagaaggctcccttggtatag	AA168061
97699	ggctcccttggtatagacctgccag	AA168061
97700	tcccttggtatagacctgccaggcc	AA168061
97701	cttggtatagacctgccaggccttg	AA168061
97702	ggtatagacctgccaggccttgcat	AA168061
97703	ttacaacctgcctcttgagctcgag	AA144136
97704	acaacctgcctcttgagctcgagaa	AA144136
97705	aatatcttattgttggaaggccagg	AA144136
97706	gaaatcatttctgtgaatggatgta	AA144136
97707	aatcatttctgtgaatggatgtatg	AA144136
97708	gagaagtatcctttcttcagagcga	AA144136
97709	gaagtatcctttcttcagagcgaac	AA144136
97710	agtatcctttcttcagagcgaacat	AA144136
97711	tatcctttcttcagagcgaacattc	AA144136
97712	tcctttcttcagagcgaacattcag	AA144136
97713	ctttcttcagagcgaacattcagaa	AA144136
97714	tccttcccgaaaacaacagctccat	AA144136
97715	aacctgcctcttgagctcgagaacc	AA144136
97716	gaacctgaggtcattgctgcagtat	AA144136
97717	acctgaggtcattgctgcagtatac	AA144136
97718	gcagtatactagatctccagttgta	AA144136
97719	agtatactagatctccagttgtatt	AA144136
97720	tatactagatctccagttgtatttt	AA144136

TABLE 1

SEQ ID NO	sequence	DBAxnID
12513	aggacctgcagcctggccatcagca	X80992
12514	tgcagcctggccatcagcaggctct	X80992
12515	ggtgccttctgtctactgttgtagt	X80992
12516	ttctgtctactgttgtagttacgtg	X80992
12517	gttttgtgttgactctcggtggtgt	X80992
12518	tgttgactctcggtggtgtgagaat	X80992
12519	tgtactaatctctgtcaagacaaac	X80992
12520	cacgaacaacagcacagcgaagcgg	X80992
12521	caacagcacagcgaagcgggatggt	X80992
12522	gctttcccagttcctaactgagcag	X80992
12523	tgagcagttgctggtctgcaggaag	X80992
12524	ctgcagttacctaatgttcgcctcc	X80992
12525	ttagatctagctgcttgtggtgtaa	X80992
12526	ctagctgcttgtggtgtaagtaaac	X80992
12527	ggcactctttcaggttccattccca	X80992
12528	atttgcccattccttcagacgcatg	M98454
12529	ccattccttcagacgcatgccacag	M98454
12530	tccacactcaaaagggaggctaagg	M98454
12531	cttacagctctaacccagagccttt	M98454
12532	acccagagcctttgcaaagctccac	M98454
12533	agcctttgcaaagctccacagactc	M98454
12534	tgcaaagctccacagactcctcaaa	M98454
12535	gctccacagactcctcaaatgacaa	M98454
12536	cctcaaatgacaacaccaggaacat	M98454
12537	atgacaacaccaggaacatgggttt	M98454
12538	acaccaggaacatgggtttgctacg	M98454
12539	tccaatcagaagccaataggtgatt	M98454
12540	cttcagacgcatgccacagacccat	M98454
12541	gccacagacccatggaaatcttgta	M98454
12542	ttcttttcttagatggacagctaag	M98454
12543	cattagcgtctgggggtttctctgg	M98454
12544	gcaccgtcactcactcaggatctta	M98454
12545	tcactcactcaggatcttatcctga	M98454
12546	actcaggatcttatcctgatcttac	M98454
12547	gatcttatcctgatcttaccctcct	M98454
12548	aggatttctctgcctctgccaacct	M26251
12549	gagtcacttcctctggttgacaccc	M26251
12550	acacttggtgcaacagtgcagtacc	M26251
12551	acagctttcaagtgcctttactgca	M26251
12552	ttcaagtgcctttactgcagttttt	M26251
12553	aagtgcctttactgcagtttttcag	M26251
12554	tgcctttactgcagtttttcaggag	M26251
12555	tgcagtttttcaggagcgcaagata	M26251
12556	agtttttcaggagcgcaagatagat	M26251
12557	agaagctcagcacttaacaactgac	M26251
12558	tcagcacttaacaactgacacccca	M26251
12559	actgctttttttccagtaaatatctg	M26251
12560	tcacttcctctggttgacacccact	M26251
12561	tatctgaccaacttgttactgcttc	M26251
12562	cttcctctggttgacacccactcaa	M26251
12563	acactcctgattaagacggttgaga	M26251
12564	atcaatgagacttctcagcatcacg	M26251
12565	acttctcagcatcacgatgaccttg	M26251
12566	tctcagcatcacgatgaccttgaat	M26251
12567	ttgcacacacttggtgcaacagtgc	M26251
12568	cacacacttggtgcaacagtgcagt	M26251
12569	cgggtcaacaccaagcgcacgagtc	W55507
12570	gtcaacaccaagcgcacgagtcgag	W55507
12571	cctgaagacaccactcaaggatgct	W55507
12572	gaagacaccactcaaggatgctgcc	W55507
12573	aagacaccactcaaggatgctgccc	W55507
12574	gacaccactcaaggatgctgcccgc	W55507
12575	ccactcaaggatgctgcccgccgag	W55507
12576	cactcaaggatgctgcccgccgagc	W55507
12577	actcaaggatgctgcccgccgagct	W55507
12578	gtcaacaccagctctctcttcctga	W55507
12579	tcttcctgatccattccaccacggg	W55507
12580	tcctgatccattccaccacgggcta	W55507
55117	cgagcaagcactggccctctattag	X58849
55118	gcaccaagtatgactacgcgggtgt	X58849
55119	gctctgcgaccctgctccaggggc	X58849
55120	ccaaaggcccgctcaacttgaacat	X58849
55121	tcaacttgaacatggcagtgcaagt	X58849
55122	gcctgcgatcttcactgcccgacgg	X58849
55123	gtaaacagtgcccatgctccccgaa	X58849
55124	agtgcccatgctccccgaagccagg	X58849
55125	atttatccgtggtccccagcagaat	X14759
55126	tggtccccagcagaattagaggctg	X14759
55127	cttccactgtcaaactctaagcgct	X14759
55128	ccactgtcaaactctaagcgctttg	X14759
55129	aactctaagcgctttggcagcaaag	X14759
55130	tctaagcgctttggcagcaaagcat	X14759
55131	aagcgctttggcagcaaagcattgc	X14759
55132	gctgctgcttcaccaaggtaggtta	X14759
55133	ctattaacagtacattttcgtggct	X14759
55134	acagtacattttcgtggctctcaag	X14759
55135	ggctctcaagcatccctttgaagg	X14759
55136	gcatccctttgaagggactggtgt	X14759
55137	cagctgcttccggtcctgaaaccag	X14759
55138	ctgcttccggtcctgaaaccaggca	X14759
55139	gtcctgaaaccaggcaggacttgca	X14759
55140	ctgaaaccaggcaggacttgcacag	X14759
55141	aaaccaggcaggacttgcacagaga	X14759
55142	aaattgctaagctaatcggtgctcc	X14759
55143	agctaatcggtgctccaagagatga	X14759
55144	ccagccctatagaaagcaagagccc	X14759
55145	cgttccggcctgacagggtcacata	AA049707
55146	gttccggcctgacagggtcacataa	AA049707
55147	cccctcttggctcaagggctgcttt	AA049707
55148	ccctcttggctcaagggctgctttc	AA049707
55149	cctcttggctcaagggctgctttcc	AA049707
55150	ctcttggctcaagggctgctttcca	AA049707
55151	cttggctcaagggctgctttccaag	AA049707
55152	ttggctcaagggctgctttccaaga	AA049707
55153	tggctcaagggctgctttccaagac	AA049707
55154	ggctcaagggctgctttccaagacg	AA049707
55155	ctcaagggctgctttccaagacgtt	AA049707
55156	tcaagggctgctttccaagacgttt	AA049707
55157	tccggcctgacagggtcacataaca	AA049707
55158	ccggcctgacagggtcacataacag	AA049707
55159	cggcctgacagggtcacataacagt	AA049707
55160	aacagtttgcaatcgaccagcaagc	AA049707
55161	acagtttgcaatcgaccagcaagcg	AA049707
55162	cagtttgcaatcgaccagcaagcgc	AA049707
55163	aatcgaccagcaagcgcaatctctc	AA049707
55164	atcgaccagcaagcgcaatctctcc	AA049707
55165	cccaaacgttccaggacagatctgt	AA103282
55166	aaacgttccaggacagatctgtctc	AA103282
55167	tactctatgccattcggctccgttt	AA103282
55168	tctatgccattcggctccgttttct	AA103282
55169	atgccattcggctccgttttctcta	AA103282
55170	ccattcggctccgttttctctacag	AA103282
55171	ttcggctccgttttctctacagcca	AA103282
55172	ggctccgttttctctacagccagaa	AA103282
55173	tccgttttctctacagccagaagag	AA103282
55174	gttttctctacagccagaagagcag	AA103282
55175	ttctctacagccagaagagcagaaa	AA103282
55176	tctacagccagaagagcagaaagtt	AA103282
55177	cgttccaggacagatctgtctcagc	AA103282
55178	aggacagatctgtctcagcgcggat	AA103282
55179	ctgtctcagcgcggattaccttatg	AA103282
55180	tatgctgagctgatcaaggtcttga	AA103282
55181	ccttgcgtcttgcacactggctact	AA103282
55182	tgcgtcttgcacactggctactcta	AA103282
55183	actggctactctatgccattcggct	AA103282
55184	ggctactctatgccattcggctccg	AA103282
97721	agatctccagttgtattttgtcata	AA144136
97722	atctccagttgtattttgtcataat	AA144136
97723	ggagcttacgacgattccaagaagc	AA144229
97724	gcttacgacgattccaagaagcact	AA144229
97725	atggtgccccaatccagacagagta	AA144229
97726	gtgccccaatccagacagagtattt	AA144229
97727	ccccaatccagacagagtatttacg	AA144229
97728	cataatctggatcttccagtctgct	AA144229
97729	ctggatcttccagtctgctgtgagc	AA144229
97730	gatcttccagtctgctgtgagccac	AA144229
97731	gtctgctgtgagccactgcagtgat	AA144229
97732	tgctgtgagccactgcagtgatttc	AA144229
97733	tgtgagccactgcagtgatttcctt	AA144229
97734	cagtgatttccttttgcatacgatc	AA144229
97735	gattccaagaagcactatacggtca	AA144229
97736	tttccttttgcatacgatcggcaat	AA144229
97737	aagcactatacggtcatcctgaata	AA144229
97738	tatacggtcatcctgaatataaggt	AA144229
97739	cagatgcacttgcggtggacaatgg	AA144229
97740	atgcacttgcggtggacaatggatg	AA144229
97741	gatgggcctgcctcatcatactcta	AA144229
97742	gcctcatcatactctagcttgctga	AA144229
97743	cacatttgctggaaggtggacagag	AA144229
97744	gaagcagcagccaagaccttcacag	AA144320
97745	aagcagcagccaagaccttcacagc	AA144320
97746	agacttcagggattggctcaacttt	AA144320
97747	gattggctcaactttatgttcctgt	AA144320
97748	attggctcaactttatgttcctgtg	AA144320
97749	tggctcaactttatgttcctgtgga	AA144320
97750	ggctcaactttatgttcctgtggag	AA144320
97751	caactttatgttcctgtggaggtca	AA144320
97752	aactttatgttcctgtggaggtcat	AA144320
97753	actttatgttcctgtggaggtcatt	AA144320
97754	ctttatgttcctgtggaggtcattt	AA144320
97755	ttatgttcctgtggaggtcatttca	AA144320
97756	gcagcagccaagaccttcacagcat	AA144320
97757	cagcagccaagaccttcacagcatg	AA144320
97758	agcagccaagaccttcacagcatgg	AA144320
97759	gcagccaagaccttcacagcatggt	AA144320
97760	agccaagaccttcacagcatggtgc	AA144320
97761	agtatccgatgagacttcagggatt	AA144320
97762	gtatccgatgagacttcagggattg	AA144320
97763	tatccgatgagacttcagggattgg	AA144320
97764	ttcttaccagcaattagcagccctg	M84524
97765	ccagcaattagcagccctggcaggc	M84524
97766	ctggctcaagtcatccttcgagtcg	M84524
97767	atccttcgagtcgaccagctctgag	M84524
97768	gaccagctctgagccgtctggccga	M84524
97769	ctctgagccgtctggccgaaattga	M84524
97770	acgtaacgcgtgtcggaagcggatg	M84524
97771	tggctgccctttcttgtttctacat	M84524
97772	cttgtttctacattttacagcagaa	M84524
97773	tctacattttacagcagaatgagtt	M84524
97774	cctctgacatggttattgttctatt	M84524
97775	tgagccttagggccccttttgtatga	M84524
97776	attagcagccctggcaggcaacccc	M84524
97777	agccctggcaggcaaccccaaagcg	M84524
97778	ctgccacagggtggttcgcagtgac	M84524
97779	ggttcgcagtgacggtgccatcggc	M84524
97780	cggtgccatcggccattactccgga	M84524
97781	gcttctggcccatgagggcatcccg	M84524
97782	ggcccatgagggcatcccgaccgga	M84524
97783	gaccggacagccagcctccaagggc	M84524
97784	gtttccggcagttccaccacaatcg	AA144339
97785	atagaatatggctccttcccgttca	AA144339
97786	ggaaattcgacgaccagcgtctact	AA144339
97787	aaattcgacgaccagcgtctactat	AA144339
97788	aattcgacgaccagcgtctactatg	AA144339

TABLE 1

SEQ ID NO	sequence	DBAxnID
12581	tcaacaccaagcgcacgagtcgagc	W55507
12582	caacaccaagcgcacgagtcgagct	W55507
12583	acaccaagcgcacgagtcgagcttt	W55507
12584	accaagcgcacgagtcgagctttca	W55507
12585	caagcgcacgagtcgagctttcaga	W55507
12586	aagcgcacgagtcgagctttcagag	W55507
12587	agcgcacgagtcgagctttcagagc	W55507
12588	acctgaagacaccactcaaggatgc	W55507
12589	gttccctgagcagaaagctggtgag	L18880
12590	taaccagccaatgatgatggccgcc	L18880
12591	tataagcacccagctcaaaatccta	L18880
12592	gctcaaaatcctatccacagtgaag	L18880
12593	gaccaacatcagtgatgaggagtct	L18880
12594	tcataatgcccagaacctcatgcag	L18880
12595	tgcccagaacctcatgcagtctgtg	L18880
12596	gaacctcatgcagtctgtgaaggag	L18880
12597	ggctgaagctgcttcaatcaaaatc	L18880
12598	ttcaatcaaaatccgaacagatgct	L18880
12599	agatgctggctttactctgcgctgg	L18880
12600	tggctttactctgcgctgggtcaga	L18880
12601	gctccacgatgaagctcggaaatgg	L18880
12602	tactctgcgctgggtcagaaagact	L18880
12603	caatgacatcattgcagcagccaag	L18880
12604	gcgcatggctctgctgatggcagag	L18880
12605	ggctctgctgatggcagagatgtct	L18880
12606	acttattcagtgtgccaaggatatc	L18880
12607	tgccaagcagtgcacagataagcgg	L18880
12608	tctcttacaggtatgcgagcgaatc	L18880
12609	atgcgagcgaatcccaactataagc	L18880
12610	tggccgagctgcgctgtgctacgct	W55556
12611	ccgagctgcgctgtgctacgctcct	W55556
12612	agatttctcaagcttatgaagttct	W55556
12613	atttctcaagcttatgaagttcttg	W55556
12614	tttctcaagcttatgaagttcttgc	W55556
12615	gaagttcttgctgattccaagaaaa	W55556
12616	aagttcttgctgattccaagaaaag	W55556
12617	agttcttgctgattccaagaaaagg	W55556
12618	gttcttgctgattccaagaaaaggg	W55556
12619	ttcttgctgattccaagaaaagggaa	W55556
12620	tcttgctgattccaagaaaagggaa	W55556
12621	ttgctgattccaagaaaagggaact	W55556
12622	agctgcgctgtgctacgctcctctt	W55556
12623	gcccgctcaccggctgtaaaaaatg	W55556
12624	aaactacttactatgatgttgctgg	W55556
12625	tcaaacccaatgccacccaggaaga	W55556
12626	cccaatgccacccaggaagaattga	W55556
12627	ccaatgccacccaggaagaattgaa	W55556
12628	aacagatttctcaagcttatgaagt	W55556
12629	cagatttctcaagcttatgaagttc	W55556
12630	cctcttctggggcagatcctctgat	X63003
12631	cagagaaccccaattcatcagccgg	X63003
12632	gctaggaacctacaacaactatgat	X63003
12633	tgccacctgcgagcccattcagagc	X63003
12634	ctgcgagcccattcagagcgtctat	X63003
12635	gcccattcagagcgtctatttcttc	X63003
12636	tttcttctctggagacaaatactac	X63003
12637	cccacgctccattgctcagtattgg	X63003
12638	ctccattgctcagtattggctgggc	X63003
12639	atcagagcccactcggctgagcttc	X63003
12640	gcccactcggctgagcttcaggagc	X63003
12641	gagcttcaggagcctcatctctttc	X63003
12642	accccaattcatcagccggaactgg	X63003
12643	attcatcagccggaactggcatggt	X63003
12644	cagccggaactggcatggtgtgcca	X63003
12645	catctacgtcactggctccttatcc	X63003
12646	tggccacagacgcagccagagctcg	X63003
12647	gagctcgaactcccgtcgttcatca	X63003
12648	ccgtcgttcatcacgttcaatctgg	X63003
55185	ctgttcctgctggatcctgatgctg	X61753
55186	ctgctggatcctgatgctgtggaca	X61753
55187	cctatccctaggacatggctggtcc	X61753
55188	accacaaccccagtggagcacagat	X61753
55189	ttggtcctgggcagtaccttggatc	X61753
55190	agtaccttggatcaggaggaagatc	X61753
55191	ggctgcatacctgctgcctttaccc	X61753
55192	ccaggtctactctctggtcacagct	X61753
55193	ctactctctggtcacagcttcacag	X61753
55194	tctggtcacagcttcacagccacac	X61753
55195	gccacacttggactgaccctgcagg	X61753
55196	cttggactgaccctgcaggttgttc	X61753
55197	gatcctgatgctgtggacacaggga	X61753
55198	agcagtgagctgcctgtgctctttg	X61753
55199	gagctgcctgtgctctttgagctgg	X61753
55200	gactacacggatgatcccaccatct	X61753
55201	acggatgatcccaccatctctcttc	X61753
55202	tctcttctgacaggcactgaacccc	X61753
55203	ctgacaggcactgaaccccataaag	X61753
55204	ttgtcaggctggcttgtgcctggcc	X61753
55205	tcgctgcatgtccactaaataggtg	AA049946
55206	gctgcatgtccactaaataggtggt	AA049946
55207	acgagtctcctcttgcgagaagaac	AA049946
55208	gagtctcctcttgcgagaagaacat	AA049946
55209	gtctcctcttgcgagaagaacatag	AA049946
55210	agaacatagagccgtcgggccgtgc	AA049946
55211	gcggcacaatcgcgctcacccagaa	AA049946
55212	cgctcacccagaaacttatagctga	AA049946
55213	ctcacccagaaacttatagctgaga	AA049946
55214	cacccagaaacttatagctgagata	AA049946
55215	agataggacggcaccttgaggacgc	AA049946
55216	agggtgctccagagtggcgtaacgc	AA049946
55217	tgtccactaaataggtggtgaccgt	AA049946
55218	ggaagcgcacgacaacaccgaccat	AA049946
55219	gcacgacaacaccgaccatgtgagg	AA049946
55220	acgacaacaccgaccatgtgaggat	AA049946
55221	gacaacaccgaccatgtgaggatcc	AA049946
55222	caacaccgaccatgtgaggatccag	AA049946
55223	ggcaaaacgagtctcctcttgcgag	AA049946
55224	aaacgagtctcctcttgcgagaaga	AA049946
55225	tctaaatccaagccagacaaacaac	X61754
55226	cttatccagtatactgcctttccac	X61754
55227	gccacactcttctatttatgtgaac	X61754
55228	cttgctcctgcacctctggatagtg	X61754
55229	cctgcacctctggatagtgatatgc	X61754
55230	actcccaagtggacactgtatatat	X61754
55231	ctcactaaccatactctcacatagc	X61754
55232	aaccatactctcacatagctttcag	X61754
55233	acatagctttcagatgctactcgac	X61754
55234	gatgctactcgactgcctaggcata	X61754
55235	actcgactgcctaggcatatacgtt	X61754
55236	tttaatgcacattactggcatatct	X61754
55237	cagtatactgcctttccacttcttg	X61754
55238	tcaattcaaatggccattttctcca	X61754
55239	tttccacttcttgcattcctggatg	X61754
55240	gaagttgtgccttctgtagataaac	X61754
55241	gatgagctcctggatagcagcctgg	X61754
55242	cttgtccgcctggaaccattgactg	X61754
55243	cgcctggaaccattgactgaagcgg	X61754
55244	gaaccattgactgaagcggaagcta	X61754
55245	agtgaagccacactcttctatttat	X61754
55246	tgagacagcagcgacgacgaaagga	AA049784
55247	agacagcagcgacgacgaaaggagt	AA049784
55248	gtacgcagcgaaggaccagaaagga	AA049784
55249	gtcccgtcagcgctgcgcctaggct	AA049784
55250	cccgtcagcgctgcgcctaggctta	AA049784
55251	agcgctgcgcctaggcttatgtggg	AA049784
55252	cgctgcgcctaggcttatgtgggga	AA049784
97789	ttcgacgaccagcgtctactatgtc	AA144339
97790	tcgacgaccagcgtctactatgtct	AA144339
97791	gacgaccagcgtctactatgtctcc	AA144339
97792	acgaccagcgtctactatgtctcca	AA144339
97793	gaccagcgtctactatgtctccatc	AA144339
97794	accagcgtctactatgtctccatca	AA144339
97795	cagcgtctactatgtctccatcatt	AA144339
97796	gaatatggctccttcccgttcacct	AA144339
97797	agcgtctactatgtctccatcattg	AA144339
97798	aggttatcactgtcgacatctctct	AA144339
97799	gttatcactgtcgacatctctctgt	AA144339
97800	ttatcactgtcgacatctctctgtg	AA144339
97801	acatctctctgtggaaattcgacga	AA144339
97802	atctctctgtggaaattcgacgacc	AA144339
97803	tctctctgtggaaattcgacgacca	AA144339
97804	tggaaattcgacgaccagcgtctac	AA144339
97805	atcccgccggaagcgccaggacaat	AA144156
97806	tcccgccggaagcgccaggacaatg	AA144156
97807	ggctcagatgctggacactggtggc	AA144156
97808	ctcagatgctggacactggtggcca	AA144156
97809	tcagatgctggacactggtggccag	AA144156
97810	agatgctggacactggtggccagga	AA144156
97811	ctaccgtggcattagctctgcgtag	AA144156
97812	accgtggcattagctctgcgtagta	AA144156
97813	ccgtggcattagctctgcgtagtag	AA144156
97814	tggcattagctctgcgtagtagcgt	AA144156
97815	ggcattagctctgcgtagtagcgtg	AA144156
97816	gcattagctctgcgtagtagcgtgg	AA144156
97817	gcaagaccgtcaaggctcagatgct	AA144156
97818	caagaccgtcaaggctcagatgctg	AA144156
97819	agaccgtcaaggctcagatgctgga	AA144156
97820	gaccgtcaaggctcagatgctggac	AA144156
97821	ccgtcaaggctcagatgctggacac	AA144156
97822	cgtcaaggctcagatgctggacact	AA144156
97823	tcaaggctcagatgctggacactgg	AA144156
97824	aggctcagatgctggacactggtgg	AA144156
97825	acatgataggtctcatccatactca	AA144297
97826	ggtctcatccatactcatcatggca	AA144297
97827	attgtcaaactctccacagtattta	AA144297
97828	tgtcaaactctccacagtatttagg	AA144297
97829	tcaaactctccacagtatttaggag	AA144297
97830	actctccacagtatttaggagctga	AA144297
97831	tctccacagtatttaggagctgagc	AA144297
97832	gtcgacagctgtctcttggcagata	AA144297
97833	cgacagctgtctcttggcagatagc	AA144297
97834	acagctgtctcttggcagatagccc	AA144297
97835	atcttttacagctgatgtagtctca	AA144297
97836	atgtagtctcacatgatgatcaatc	AA144297
97837	tctcatccatactcatcatggcagc	AA144297
97838	tcatccatactcatcatggcagcag	AA144297
97839	atactcatcatggcagcagcattgt	AA144297
97840	actcatcatggcagcagcattgtca	AA144297
97841	tcatcatggcagcagcattgtcaaa	AA144297
97842	catggcagcagcattgtcaaactct	AA144297
97843	agcagcattgtcaaactctccacag	AA144297
97844	gcattgtcaaactctccacagtatt	AA144297
97845	cgcttccgtcatgcttgacttcttc	AA144347
97846	ttccgtcatgcttgacttcttcacc	AA144347
97847	gtaacaactctttcactcatgaggc	AA144347
97848	tcactcatgaggctctcacactcaa	AA144347
97849	aggctctcacactcaagtatagact	AA144347
97850	ctctcacactcaagtatagactgga	AA144347
97851	gactggacaaccagtttgagctggt	AA144347
97852	tggacaaccagtttgagctggtgtt	AA144347
97853	tgtttgtggttggctttcagaagat	AA144347
97854	gctttcagaagatcctcacgctgac	AA144347
97855	ttcagaagatcctcacgctgaccta	AA144347
97856	agaagatcctcacgctgacctatgt	AA144347

TABLE 1

SEQ ID NO	sequence	DBAxnID
12649	aatctggttctctttgttctccagc	X63003
12650	tcgtctgcccgaccttcaaggttct	W55368
12651	tgcccgaccttcaaggttctaccat	W55368
12652	ggttctaccatgttctcgcgggcga	W55368
12653	gttctaccatgttctcgcgggcgag	W55368
12654	caaccctgaaagacattaccatgag	W55368
12655	tgaagcagctcgagtgtatgggaca	W55368
12656	gaagcagctcgagtgtatgggacag	W55368
12657	aagcagctcgagtgtatgggacagg	W55368
12658	agcagctcgagtgtatgggacaggc	W55368
12659	gcccgaccttcaaggttctaccatg	W55368
12660	gaccttcaaggttctaccatgttct	W55368
12661	ccttcaaggttctaccatgttctcg	W55368
12662	cttcaaggttctaccatgttctcgc	W55368
12663	ttcaaggttctaccatgttctcgcg	W55368
12664	tcaaggttctaccatgttctcgcgg	W55368
12665	caaggttctaccatgttctcgcggg	W55368
12666	aggttctaccatgttctcgcgggcg	W55368
12667	cccggtaccatgagttgcctcatca	X01157
12668	agttgcctcatcagcctcgttcttg	X01157
12669	tgcaacgtcgactgtgtcatgacat	X01157
12670	gtcgactgtgtcatgacatgtacac	X01157
12671	gtgccagtgataacccttcagtgag	X01157
12672	gtgataacccttcagtgagcagccg	X01157
12673	gagcgaccagcccaagtctatacag	X01157
12674	ccagcccaagtctatacagcaagac	X01157
12675	tatacagcaagacccttcactcgtg	X01157
12676	cccttcactcgtggatcccagagag	X01157
12677	actcgtggatcccagagagaacata	X01157
12678	aatgctttcaatctgctgctaataa	X01157
12679	gttcttggcctgctggccctggagg	X01157
12680	gtggccctcgctcagaacctagagg	X01157
12681	ctcgctcagaacctagaggaacaag	X01157
12682	gtcttcaactcagttcagtccatgt	X01157
12683	agccccattgagggcacagagtgta	X01157
12684	atcatctgccaaaccaacgaggagt	X01157
12685	gctggcttctgcccttggaattcac	X01157
12686	gaatgctccagcgaccgtgagtgtt	X01157
12687	tgtattctcggatgatatctctcag	W55593
12688	ttctcggatgatatctctcagcatt	W55593
12689	aacgcgcatgtttgtccttgagctg	W55593
12690	cgcgcatgtttgtccttgagctgga	W55593
12691	catgtttgtccttgagctggattcc	W55593
12692	tgtttgtccttgagctggattccaa	W55593
12693	tgtccttgagctggattccaaattt	W55593
12694	tccttgagctggattccaaatttct	W55593
12695	caaatttcttctccaggacaaagca	W55593
12696	aatttcttctccaggacaaagcatg	W55593
12697	tcttctccaggacaaagcatgcgcg	W55593
12698	ttctccaggacaaagcatgcgcgtt	W55593
12699	gatgatatctctcagcattcattga	W55593
12700	tgatatctctcagcattcattgaac	W55593
12701	atctctcagcattcattgaacgcgc	W55593
12702	ctctcagcattcattgaacgcgcat	W55593
12703	cagcattcattgaacgcgcatgttt	W55593
12704	gcattcattgaacgcgcatgtttgt	W55593
12705	tcattgaacgcgcatgtttgtcctt	W55593
12706	attgaacgcgcatgtttgtccttga	W55593
12707	gcgtagccttctcacagtcctttgt	M89797
12708	cctccagccgggcactcatgaatct	M89797
12709	tcaagccacatacagatgaggacct	M89797
12710	aggacctggtatacctggagcctag	M89797
12711	tggtatacctggagcctagcccgga	M89797
12712	acctggagcctagcccggacttctg	M89797
12713	acttctgtgagcaggacatccgcag	M89797
12714	ccattgacggctgcgagctactgtg	M89797
12715	agcgctgtggctgcaggttccactg	M89797
12716	gcttcgtcaagtgccggcagtgcca	M89797

SEQ ID NO	sequence	DBAxnID
55253	cgtgactgtggccctatctgaagac	AA049784
55254	tgtggccctatctgaagacaggtgg	AA049784
55255	gccctatctgaagacaggtggcccg	AA049784
55256	aagacaggtggcccgtatgatgctt	AA049784
55257	caggtggcccgtatgatgcttggca	AA049784
55258	acagcagcgacgacgaaaggagtgg	AA049784
55259	ggtggcccgtatgatgcttggcaac	AA049784
55260	tcgtgagacagcgcccgaatgtgta	AA049784
55261	gtgagacagcgcccgaatgtgtaga	AA049784
55262	gagacagcgcccgaatgtgtagacg	AA049784
55263	gacagcgcccgaatgtgtagacgga	AA049784
55264	gcgcccgaatgtgtagacggaggac	AA049784
55265	cactggctcggcgtacgcagcgaag	AA049784
55266	ctcggcgtacgcagcgaaggaccag	AA049784
55267	tatcaatgaactgtgacaggaagct	X53584
55268	tcaaggcaggttcctcaccaataac	X53584
55269	aagagccatataccagtgtcctgct	X53584
55270	catataccagtgtcctgctttcaac	X53584
55271	tcctgctttcaacttaaatcactga	X53584
55272	cttaaatcactgaggcatctctact	X53584
55273	tcactgaggcatctctactcttctg	X53584
55274	aggcatctctactcttctgtgagtc	X53584
55275	ctctactcttctgtgagtcatcagg	X53584
55276	catcaggactgtagcgctgtgtcaa	X53584
55277	gactgtagcgctgtgtcaacaaaac	X53584
55278	attatgtgacaaccttttgtgtaata	X53584
55279	cctcaccaataacttcagagaagtc	X53584
55280	aaggctggctgaccactgtaatcat	X53584
55281	ggctgaccactgtaatcatcagtta	X53584
55282	atggtttactgctgtcattgtccat	X53584
55283	tactgctgtcattgtccatgcctac	X53584
55284	tgtcattgtccatgcctacagataa	X53584
55285	ttgtacattcctgatgctggttgca	X53584
55286	attcctgatgctggttgcaagagcc	X53584
55287	ctaggatctggctcgctactccgcg	AA050022
55288	ggatctggctcgctactccgcgcct	AA050022
55289	cacacgttgtcttgttactgttcaa	AA050022
55290	tgttactgttcaaattcctgataca	AA050022
55291	cgtatgacgtgcatctatcgttgtg	AA050022
55292	tgcatctatcgttgtgttaccattg	AA050022
55293	atctatcgttgtgttaccattgcaa	AA050022
55294	gttaccattgcaacatggatgagct	AA050022
55295	tgtagcatgactgcactagatactg	AA050022
55296	agcatgactgcactagatactggta	AA050022
55297	atgtgtgttacatcttccataatgt	AA050022
55298	tgtgttacatcttccataatgtagg	AA050022
55299	ggctcgctactccgcgcctttacaa	AA050022
55300	acatcttccataatgtaggtgctat	AA050022
55301	ctactccgcgcctttacaagttcag	AA050022
55302	gcctttacaagttcagctaacatat	AA050022
55303	tttacaagttcagctaacatatgac	AA050022
55304	agttcagctaacatatgactcagat	AA050022
55305	aatcacccacataggacacacacgt	AA050022
55306	cataggacacacacgttgtcttgtt	AA050022
55307	aggacacacacgttgtcttgttact	AA050022
55308	gagtggcccctggagtgaaatttca	AA050030
55309	gcagcaactgactgtaacagatcgc	AA050030
55310	ctttcacaaactgaatgtctgccgc	AA050030
55311	caaactgaatgtctgccgcaatgtg	AA050030
55312	actgaatgtctgccgcaatgtgaat	AA050030
55313	gaatgtctgccgcaatgtgaataat	AA050030
55314	tgtctgccgcaatgtgaataatcct	AA050030
55315	gaataatcctgtttttggccgcaag	AA050030
55316	taatcctgtttttggccgcaagagc	AA050030
55317	tcctgtttttggccgcaagagctgg	AA050030
55318	tgtttttggccgcaagagctggaat	AA050030
55319	ttttggccgcaagagctggaatcag	AA050030
55320	aacagatcgcaagaacctaggactt	AA050030

SEQ ID NO	sequence	DBAxnID
97857	cgtcatgcttgacttcttcaccatc	AA144347
97858	tcctcacgctgacctatgtagacaa	AA144347
97859	gcttgacttcttcaccatcttctcg	AA144347
97860	tgacttcttcaccatcttctcgaag	AA144347
97861	cgggcttgtgctctggtgtttccag	AA144347
97862	tcaacgcgttgattcgttccgtact	AA144347
97863	acgcgttgattcgttccgtactgct	AA144347
97864	cgttgattcgttccgtactgctgca	AA144347
97865	ttcgttccgtactgctgcaggaacg	AA144347
97866	aagcaaaccggatgtacatgaaggg	AA144402
97867	gacgagactgctcagcagagctcaa	AA144402
97868	tacgtgatcgctacatgagcgataa	AA144402
97869	gtgatcgctacatgagcgataagta	AA144402
97870	gccccaacattctcatcgagattat	AA144402
97871	ccccaacattctcatcgagattatc	AA144402
97872	cccaacattctcatcgagattatca	AA144402
97873	ccaacattctcatcgagattatcaa	AA144402
97874	caacattctcatcgagattatcaag	AA144402
97875	aacattctcatcgagattatcaagg	AA144402
97876	acattctcatcgagattatcaaggg	AA144402
97877	cattctcatcgagattatcaagggt	AA144402
97878	acgagactgctcagcagagctcaag	AA144402
97879	gagactgctcagcagagctcaaggt	AA144402
97880	agactgctcagcagagctcaaggta	AA144402
97881	actgctcagcagagctcaaggtacg	AA144402
97882	ctgctcagcagagctcaaggtacgt	AA144402
97883	agcagagctcaaggtacgtgatcgc	AA144402
97884	aggtacgtgatcgctacatgagcga	AA144402
97885	ggtacgtgatcgctacatgagcgat	AA144402
97886	ctaccaatccggtgcagccccaatg	AA144430
97887	taccaatccggtgcagccccaatgg	AA144430
97888	agcgcagatggccggttctagacgg	AA144430
97889	cagatggccggttctagacgggaca	AA144430
97890	cggttctagacgggacaccgatgct	AA144430
97891	ggttctagacgggacaccgatgctg	AA144430
97892	gttctagacgggacaccgatgctgg	AA144430
97893	tagacgggacaccgatgctggcgag	AA144430
97894	atccggtgcagccccaatgggtgtt	AA144430
97895	tccggtgcagccccaatgggtgtta	AA144430
97896	cggtgcagccccaatgggtgttatc	AA144430
97897	ggtgcagccccaatgggtgttatcc	AA144430
97898	gtgcagccccaatgggtgttatccg	AA144430
97899	tgcagccccaatgggtgttatccgg	AA144430
97900	gcagccccaatgggtgttatccggg	AA144430
97901	tggagcgcagatggccggttctaga	AA144430
97902	actgatgcccaatcccatgcttcaa	AA144469
97903	tgatgcccaatcccatgcttcaacc	AA144469
97904	atccttgctctggtcatctccctca	AA144469
97905	ttgctctggtcatctccctcatctt	AA144469
97906	gctctggtcatctccctcatcttct	AA144469
97907	tctggtcatctccctcatcttctac	AA144469
97908	tctccctcatcttctacatcatgct	AA144469
97909	tccctcatcttctacatcatgctta	AA144469
97910	cctcatcttctacatcatgcttatc	AA144469
97911	atcttctacatcatgcttatcgttt	AA144469
97912	tctacatcatgcttatcgttttata	AA144469
97913	tacatcatgcttatcgttttataca	AA144469
97914	aatcccatgcttcaaccgccaagat	AA144469
97915	atcatgcttatcgttttatacagct	AA144469
97916	atgcttcaaccgccaagattctgaa	AA144469
97917	ttcaaccgccaagattctgaacatc	AA144469
97918	caaccgccaagattctgaacatcct	AA144469
97919	ccaagattctgaacatccttgctct	AA144469
97920	aagattctgaacatccttgctctgg	AA144469
97921	gattctgaacatccttgctctggtc	AA144469
97922	gaacatccttgctctggtcatctcc	AA144469
97923	accatggcagcggcatcggagcagg	AA144494
97924	tggcagcggcatcggagcaggtccc	AA144494

TABLE 1

SEQ ID NO	sequence	DBAxnID
12717	tcaagtgccggcagtgccagcggct	M89797
12718	agtgccagcggctcgtggagatgca	M89797
12719	gccgggcactcatgaatcttcacaa	M89797
12720	acaacgaggctggcaggaaggccat	M89797
12721	aggccatcttgacacacatgcgggt	M89797
12722	cgggctcctgcgaggtaaagacgtg	M89797
12723	agacgtgctggcgtgctgtaccgcc	M89797
12724	ttggccacgcgctaaaggagaagtt	M89797
12725	tgcctcggaatgcacagttcaagcc	M89797
12726	cacagttcaagccacatacagatga	M89797
12727	tgtggaaactgccttcatcgtatct	W55620
12728	gtggaaactgccttcatcgtatctg	W55620
12729	actggattcaagccaactacctcgc	W55620
12730	attcaagccaactacctcgctgatt	W55620
12731	ttcaagccaactacctcgctgattg	W55620
12732	caagccaactacctcgctgattgga	W55620
12733	aagccaactacctcgctgattggag	W55620
12734	gccaactacctcgctgattggagaa	W55620
12735	ccaactacctcgctgattggagaac	W55620
12736	aactacctcgctgattggagaacgg	W55620
12737	actacctcgctgattggagaacgga	W55620
12738	tacctcgctgattggagaacggaaa	W55620
12739	atggcgaccatgctgttgctccatg	W55620
12740	tcttcaccacaaccgaacgacaaag	W55620
12741	ttcaccacaaccgaacgacaaagct	W55620
12742	tcaccacaaccgaacgacaaagctt	W55620
12743	caaccgaacgacaaagcttccatct	W55620
12744	ccgaacgacaaagcttccatcttgg	W55620
12745	gaacgacaaagcttccatcttggga	W55620
12746	aactggattcaagccaactacctcg	W55620
12747	tcgactatggtcacccgttcgccaa	M89798
12748	tccacgctaagggttcctatgagag	M89798
12749	acaacctggcagatgtagcctgtaa	M89798
12750	gcgatgccctcaaggagaagtatga	M89798
12751	atgatagcgccgcggccatgaggct	M89798
12752	ccatgaggctcaacagccggggcaa	M89798
12753	tcgaccccagtccggactactgtgt	M89798
12754	gtccggactactgtgtgcgcaacga	M89798
12755	actactgtgtgcgcaacgagagcac	M89798
12756	cagtgcagaccgaacgctgtcattg	M89798
12757	agaccgaacgctgtcattgcaagtt	M89798
12758	aacgctgtcattgcaagtttcactg	M89798
12759	acgctaagggttcctatgagagcgc	M89798
12760	gttcctatgagagcgcacgcatcct	M89798
12761	gcgcacgcatcctcatgaacttaca	M89798
12762	cacgcatcctcatgaacttacacaa	M89798
12763	acaatgaagcaggccgtaggacagt	M89798
12764	atgaagcaggccgtaggacagtata	M89798
12765	cagtatacaacctggcagatgtagc	M89798
12766	tatacaacctggcagatgtagcctg	M89798
12767	gaccgcttcaagagcgttcaggtgg	M89799
12768	tggtgttgctttgtcagatgcaaaa	M89799
12769	ctggacttattccacatctacagtc	M89799
12770	gacttattccacatctacagtcctg	M89799
12771	cacatctacagtcctgtggggaaga	M89799
12772	atctacagtcctgtggggaagatga	M89799
12773	atgagtgtctgtgaccctggccatt	M89799
12774	tgtgaccctggccattagacccaga	M89799
12775	gaccctggccattagacccagaggc	M89799
12776	cctggccattagacccagaggccct	M89799
12777	cattagacccagaggccctgtggaa	M89799
12778	tagacccagaggccctgtggaaaga	M89799
12779	aaatgcaccgaggttgtggaccagt	M89799
12780	aagtgactgcaccacacggcctcag	M89799
12781	ggccctctgtgaggactggatttgc	M89799
12782	ttgcggaaatccacaaccagtggga	M89799
12783	cggaaatccacaaccagtgggagag	M89799
12784	tctggccaggacttttgggacatgg	M89799
55321	tcgcaagaacctaggacttgttatg	AA050030
55322	caagaacctaggacttgttatgtct	AA050030
55323	acttgttatgtctgatgatggagaa	AA050030
55324	ttttgccacaactttcacaaactg	AA050030
55325	ttgccacaactttcacaaactgaat	AA050030
55326	ccacaactttcacaaactgaatgtc	AA050030
55327	caactttcacaaactgaatgtctgc	AA050030
55328	attggaccaggatgtcctggagttc	AA050037
55329	ggaccaggatgtcctggagttcgat	AA050037
55330	gccggcctggatcttggctagtgca	AA050037
55331	ggcctggatcttggctagtgcatcc	AA050037
55332	gatcttggctagtgcatccagaaca	AA050037
55333	cagaacaagccccggtactctctga	AA050037
55334	aagccccggtactctctgattctga	AA050037
55335	ccccggtactctctgattctgacga	AA050037
55336	cggtactctctgattctgacgattc	AA050037
55337	tctctgattctgacgattccagttg	AA050037
55338	ctgattctgacgattccagttggca	AA050037
55339	attctgacgattccagttggcaagg	AA050037
55340	ccaggatgtcctggagttcgatgat	AA050037
55341	gcgcattgtgtgccacctctcagaa	AA050037
55342	cattgtgtgccacctctcagaaatg	AA050037
55343	ccacctctcagaaatgtgttcgaaa	AA050037
55344	tacttgatgtacagcccttattaca	AA050037
55345	atgtacagcccttattacaggctgg	AA050037
55346	ctggagaacgccggcctggatcttg	AA050037
55347	aacgccggcctggatcttggctagt	AA050037
55348	cgcgagcccagtctcccttcaaagt	X58426
55349	attaccagttcaagatccagttcat	X58426
55350	gcgagttgatcctgctcaagttcaa	X58426
55351	tgatcctgctcaagttcaagtggga	X58426
55352	acacagtgcagaccatcatgctatg	X58426
55353	tgcagaccatcatgctatggggcat	X58426
55354	actctggcctcattctgaagaccat	X58426
55355	agaccatctgggtcaaagctggaga	X58426
55356	cattttgccccgaaaatctggatga	X58426
55357	tggatgacctccagcttcacccgag	X58426
55358	agcttcacccgagccaggagaaagt	X58426
55359	tctttgtgaactgtgaagtgaagtc	X58426
55360	agttcaagatccagttcatcaatca	X58426
55361	cttttaccatgtcgctgctgggaac	X58426
55362	ccatgtcgctgctgggaacaaaaga	X58426
55363	taaagagaattcccatcaccctggg	X58426
55364	cctattccttccttatcacactgga	X58426
55365	ccttccttatcacactggacaaaga	X58426
55366	ttatcacactggacaaagacatcgg	X58426
55367	acatcggcgagttgatcctgctcaa	X58426
55368	ttgaacactggcagaatcttgctgg	AA050102
55369	acactggcagaatcttgctggggat	AA050102
55370	atcttgctggggatccttttggcaa	AA050102
55371	tcttgctggggatccttttggcaac	AA050102
55372	ttgctggggatccttttggcaacaa	AA050102
55373	tggcaacaagagccggcccaagcaa	AA050102
55374	gcaacaagagccggcccaagcaagt	AA050102
55375	caacaagagccggcccaagcaagtt	AA050102
55376	acaagagccggcccaagcaagttgt	AA050102
55377	caagagccggcccaagcaagttgta	AA050102
55378	gagccggcccaagcaagttgtaact	AA050102
55379	gccggcccaagcaagttgtaactca	AA050102
55380	cactggcagaatcttgctggggatc	AA050102
55381	actggcagaatcttgctggggatcc	AA050102
55382	ctggcagaatcttgctggggatcct	AA050102
55383	tggcagaatcttgctggggatcctt	AA050102
55384	cagaatcttgctggggatcctttg	AA050102
55385	agaatcttgctggggatcctttgg	AA050102
55386	gaatcttgctggggatcctttggc	AA050102
55387	aatcttgctggggatcctttggca	AA050102
55388	attaaacctgaacggagcaacagca	Z31359
97925	cctctcgtacagaggatgaaagcac	AA144494
97926	gagatagttcgctctgcttatgaga	AA144494
97927	tagttcgctctgcttatgagaaatg	AA144494
97928	gttcgctctgcttatgagaaatgtc	AA144494
97929	gagcaccagacctacttgtaaaggt	AA144494
97930	tgtaaaggtaccctgggcgagatca	AA144494
97931	ggtaccctgggcgagatcaaaatct	AA144494
97932	taccctgggcgagatcaaaatctta	AA144494
97933	agatacagattccgggacagaccat	AA144494
97934	atacagattccgggacagaccatta	AA144494
97935	gcatcggagcaggtcccggagtata	AA144494
97936	agattccgggacagaccattagcaa	AA144494
97937	gagcaggtcccggagtatagtacgc	AA144494
97938	atagtacgcgagcaagtgttctacg	AA144494
97939	ttctacgtaaggccgcgctacgaca	AA144494
97940	gcgctacgacaacctctcgtacaga	AA144494
97941	tacgacaacctctcgtacagaggat	AA144494
97942	cgacaacctctcgtacagaggatga	AA144494
97943	aacctctcgtacagaggatgaaagc	AA144494
97944	tactggttagcacacattggtgttg	U02600
97945	ttagcacacattggtgttgatacag	U02600
97946	gccatttgcagacaacatttacaag	U02600
97947	atctgtcacactaagaggtgattct	U02600
97948	cagcttaattcgccatcatttatta	U02600
97949	aatccctcacttgtatggataagag	U02600
97950	gaatttatcgcacatgtagtatggg	U02600
97951	atcgcacatgtagtatgggatcatc	U02600
97952	atatgaggtctcgtgtacagttaaa	U02600
97953	agttaaagctcgtgtcctgtgattt	U02600
97954	agctcgtgtcctgtgatttcctgta	U02600
97955	tgtcctgtgatttcctgtatggata	U02600
97956	tatcatacctgaacatcatctcccc	U02600
97957	acctgaacatcatctccccaaattg	U02600
97958	atacaggctttctttgacattctgc	U02600
97959	gctttctttgacattctgctctgaa	U02600
97960	tttgacattctgctctgaaatgtgt	U02600
97961	attctgctctgaaatgtgttcagtg	U02600
97962	gcctatgaaactgaccttcagcctc	U02600
97963	cagcctccaaaggcagtgtgctctt	U02600
97964	gtcccagatgcccaagtgtctacca	W53970
97965	gatgcccaagtgtctaccaggccca	W53970
97966	gtgccgactccctctgaaatccgtg	W53970
97967	tctgaaatccgtgctgccccaaggc	W53970
97968	gaaatccgtgctgccccaaggctaa	W53970
97969	cgtgctgccccaaggctaaggactg	W53970
97970	gctgccccaaggctaaggactgtgc	W53970
97971	gccccaaggctaaggactgtgctcc	W53970
97972	aggactgtgctccatcccttgggga	W53970
97973	actgtgctccatcccttggggaagc	W53970
97974	gtgctccatcccttggggaagccaa	W53970
97975	agcagttagcacagcagcctgctaa	W53970
97976	gcccaagtgtctaccaggcccagtc	W53970
97977	agttagcacagcagcctgctaatgg	W53970
97978	accaggcccagtcagtctgctggga	W53970
97979	aggcccagtcagtctgctgggaatg	W53970
97980	cccagtcagtctgctgggaatgctg	W53970
97981	agtcagtctgctgggaatgctgacg	W53970
97982	tggaagccctctaaggaggctgctg	W53970
97983	ccctctaaggaggctgctgtcccaa	W53970
97984	gactcgagaacacctcctgtgccga	W53970
97985	ttgagttatccatgggacagtttta	W91324
97986	gccactcattgtgagcaggagaaat	W91324
97987	tgaccagggcagcctgaagctcaat	W91324
97988	gcagcctgaagctcaataacctgag	W91324
97989	tgaagctcaataacctgagcagaag	W91324
97990	aagctcaataacctgagcagaagtc	W91324
97991	gctcaataacctgagcagaagtcca	W91324
97992	tcaataacctgagcagaagtccaga	W91324

TABLE 1

SEQ ID NO	sequence	DBAxnID
12785	tctgtgcgccatagcctccaggaga	M89799
12786	gtgcgccatagcctccaggagacag	M89799
12787	gcaccgccaggagagcgtacagctc	M89800
12788	gagcgtacagctcgaggagaactgt	M89800
12789	gtctgagtccagcagctccctagga	M89800
12790	tgagtccagcagctccctaggaaaa	M89800
12791	cagcagctccctaggaaaagtacct	M89800
12792	tatccaggccttgggaaattacagg	M89800
12793	ttacaggggccagccaggaacttgg	M89800
12794	ccctttgctagttctgcaggacatc	M89800
12795	gctagttctgcaggacatcactccc	M89800
12796	ccagactctgccctctggaaataat	M89800
12797	tcctcagaattactgggatggatgg	M89800
12798	ttactgggatggatgggtgagttta	M89800
12799	tctgtgccgcttccactggtgctgc	M89800
12800	ggaactcagcctgtgcctctgaccc	M89800
12801	ctgcctcggaactgctggcagccac	M89800
12802	aactgctggcagccacctctgggcc	M89800
12803	cagccacctctgggccatctacagg	M89800
12804	ccacctctgggccatctacaggact	M89800
12805	cctctgggccatctacaggactatt	M89800
12806	gctgtctgagtccagcagctcccta	M89800
12807	gcactatctattcatcttcatctgt	D17584
12808	tctattcatcttcatctgtgtcagt	D17584
12809	agcgcaggcagctgctgctggaagc	D17584
12810	acccctggttctgctttcatgctga	D17584
12811	ggttctgctttcatgctgataatgt	D17584
12812	tactgagacttcggtatttgactct	D17584
12813	tgactctatttgtatcctagcagca	D17584
12814	atgtttcctgtttcgtgactatata	D17584
12815	cctgtttcgtgactatatagagatg	D17584
12816	tttcaatgtaattctctggtcttca	D17584
12817	tctctggtcttcagtcattgtatga	D17584
12818	gtcttcagtcattgtatgatgtgtt	D17584
12819	catctgtgtcagtgagcagtgaacg	D17584
12820	ttatttaacacatgttgttgtgagt	D17584
12821	aacacatgttgttgtgagtgaaaaa	D17584
12822	ctgtccaagcttgccagtgacgcag	D17584
12823	aagcttgccagtgacgcagtctcca	D17584
12824	gccagtgacgcagtctccaaagaaa	D17584
12825	agggcccttctgtgagccagcgcag	D17584
12826	cttctgtgagccagcgcaggcagct	D17584
12827	tcgtggatgcccgggagatcaagca	M89801
12828	atgcccgggagatcaagcagaatgc	M89801
12829	tcaagaagcccctgtcctaccgcaa	M89801
12830	tggacactgacctggtgtatatcga	M89801
12831	ctgacctggtgtatatcgagttgtc	M89801
12832	atatcgagttgtcacccaattactg	M89801
12833	agggccgagcctgcaataagacagc	M89801
12834	gcaataagacagcccctcaggccag	M89801
12835	cccctcaggccagtggctgtgacct	M89801
12836	aggccagtggctgtgacctcatgtg	M89801
12837	gccgtggctacaacacacaccagta	M89801
12838	acacacaccagtacgcccgggtgtg	M89801
12839	agaatgcccggacgctcatgaactt	M89801
12840	cgctcatgaacttacacaataacga	M89801
12841	gctggaccacactgccacagttccg	M89801
12842	ccacactgccacagttccgagagct	M89801
12843	agttccgagagctaggctacgtgct	M89801
12844	taggctacgtgctcaaggacaaata	M89801
12845	tggagcctgtgcgtgccagtcgaaa	M89801
12846	ggcccacctttctgaagatcaagaa	M89801
12847	caacaccctgaatccaactcagcgg	W55664
12848	aacaccctgaatccaactcagcggg	W55664
12849	tccaactcagcgggaaatgacgttt	W55664
12850	tttttgccaaattctcagcgtttat	W55664
12851	ttttgccaaattctcagcgtttatt	W55664
12852	tttgccaaattctcagcgtttatta	W55664
55389	taaacctgaacggagcaacagcatc	Z31359
55390	gagcgggaccccaacttgtcacatt	Z31359
55391	ccccaacttgtcacatttctctcaa	Z31359
55392	cttgtcacatttctctcaaaccctc	Z31359
55393	tggtaacccgacacctcatttctct	Z31359
55394	gtaacccgacacctcatttctctca	Z31359
55395	cgacacctcatttctctcaaatcct	Z31359
55396	acacctcatttctctcaaatccttc	Z31359
55397	tttctctcaaatccttccctctaat	Z31359
55398	tcaaatccttccctctaattgttga	Z31359
55399	ttccctctaattgttgaaagcaatt	Z31359
55400	gagcaacagcatcagcttcacagct	Z31359
55401	gcaacagcatcagcttcacagcttg	Z31359
55402	atcagcttcacagcttgatggcaga	Z31359
55403	ttcacagcttgatggcagaggtgac	Z31359
55404	cacagcttgatggcagaggtgacat	Z31359
55405	cagcttgatggcagaggtgacatca	Z31359
55406	gtgacatcagcaacaaatacaagag	Z31359
55407	gacatcagcaacaaatacaagagcg	Z31359
55408	ttgaattcctgctctccaatcatct	M33227
55409	gaattcctgctctccaatcatctag	M33227
55410	tgcccacaatgccctagatgcccgt	M33227
55411	cacaatgccctagatgcccgtcatg	M33227
55412	caatgccctagatgcccgtcatgcc	M33227
55413	atgccctagatgcccgtcatgccca	M33227
55414	cctagatgcccgtcatgcccatctt	M33227
55415	tagatgcccgtcatgcccatcttgc	M33227
55416	atgcccatcttgcccgagatgcccg	M33227
55417	gattgctcttgcttctccaataaac	M33227
55418	ttgctcttgcttctccaataaactc	M33227
55419	gctcttgcttctccaataaactcct	M33227
55420	attcctgctctccaatcatctaggt	M33227
55421	gcttctccaataaactccttgcaga	M33227
55422	tcctgctctccaatcatctaggtga	M33227
55423	ctgctctccaatcatctaggtgact	M33227
55424	tctccaatcatctaggtgactcgca	M33227
55425	tccaatcatctaggtgactcgcagc	M33227
55426	caatcatctaggtgactcgcagcca	M33227
55427	gctcttcaagatgcagccctaggat	M33227
55428	ggtgcccacaatgccctagatgccc	M33227
55429	ggtggtaatcgcgtgggtgatctca	X57302
55430	aatgaagctctagcgcgtggcacta	X57302
55431	tacgactctagcattcattcgtact	X57302
55432	tctagcattcattcgtactttatca	X57302
55433	attcattcgtactttatcactgacg	X57302
55434	tttatcactgacgagaacagtggta	X57302
55435	ggccccaatcagaattttggaggct	X57302
55436	ccacagttccccattcttgcagagt	X57302
55437	ttccccattcttgcagagttggctc	X57302
55438	attcttgcagagttggctccaacag	X57302
55439	ccaacagttggtgccttcttctttg	X57302
55440	gccttcttctttggatctaaattag	X57302
55441	ggcactatctttactcaaagcagat	X57302
55442	atctttactcaaagcagattattat	X57302
55443	ttattatcctctttcacacctcgat	X57302
55444	tcctctttcacacctcgatcagaga	X57302
55445	ttcacacctcgatcagagatggaga	X57302
55446	catttgcttattggcttagcccgta	X57302
55447	ggcttagcccgtaggcagcaaaaat	X57302
55448	gtgacatacgactctagcattcatt	X57302
55449	gagcaactgccaaattggcccgtgc	AA050175
55450	gcaactgccaaattggcccgtgcaa	AA050175
55451	gcacttgctcagggacaacccaggt	AA050175
55452	acttgctcagggacaacccaggtga	AA050175
55453	ttgctcagggacaacccaggtgagc	AA050175
55454	gctcagggacaacccaggtgagcct	AA050175
55455	tcaatgggtccaacgtgcgcaagaa	AA050175
55456	tccaacgtgcgcaagaaccccggcg	AA050175
97993	taacctgagcagaagtccagactca	W91324
97994	agaagtccagactcagctccacttg	W91324
97995	aagtccagactcagctccacttgat	W91324
97996	gtccagactcagctccacttgatgt	W91324
97997	cactcattgtgagcaggagaaatgt	W91324
97998	aatgtccagaggtgtactctgcctg	W91324
97999	tgtactctgcctggatacagcctgt	W91324
98000	tactctgcctggatacagcctgtgt	W91324
98001	ctgcctggatacagcctgtgtccac	W91324
98002	gcctggatacagcctgtgtccacag	W91324
98003	ctggatacagcctgtgtccacagtg	W91324
98004	acagcctgtgtccacagtgggaacg	W91324
98005	cagcagtaatcttggccgcgttaga	AA144560
98006	gcagtaatcttggccgcgttagacc	AA144560
98007	cccttcagcccagaagccaagttgt	AA144560
98008	ccttcagcccagaagccaagttgtc	AA144560
98009	cttcagcccagaagccaagttgtct	AA144560
98010	ttcagcccagaagccaagttgtcta	AA144560
98011	tcagcccagaagccaagttgtctaa	AA144560
98012	cagcccagaagccaagttgtctaac	AA144560
98013	agcccagaagccaagttgtctaact	AA144560
98014	caagttgtctaacttggggcaagct	AA144560
98015	ttgtctaacttggggcaagcttaag	AA144560
98016	tgtctaacttggggcaagcttaagg	AA144560
98017	cagtaatcttggccgcgttagaccg	AA144560
98018	gtaatcttggccgcgttagaccgat	AA144560
98019	taatcttggccgcgttagaccgatt	AA144560
98020	ttagaccgattccccttcagcccag	AA144560
98021	tagaccgattccccttcagcccaga	AA144560
98022	attcccccttcagcccagaagccaag	AA144560
98023	ttcccccttcagcccagaagccaagt	AA144560
98024	cccccttcagcccagaagccaagttg	AA144560
98025	gaccaggctactatggctggagtgt	AA144597
98026	caggctactatggctggagtgtccc	AA144597
98027	ccaacctgcagctcagcaaccgaag	AA144597
98028	tgcagctcagcaaccgaaggctgga	AA144597
98029	atgagcatctgtcactgacggacca	AA144597
98030	agcatctgtcactgacggaccagaa	AA144597
98031	aggaccagctgagcttgcgcctgaa	AA144597
98032	accagctgagcttgcgcctgaaagc	AA144597
98033	tgagcttgcgcctgaaagccatgaa	AA144597
98034	gcttgcgcctgaaagccatgaagcg	AA144597
98035	tgcgcctgaaagccatgaagcgcca	AA144597
98036	tgaaagccatgaagcgccaggtgga	AA144597
98037	actatggctggagtgtcccatctcc	AA144597
98038	ccagcctgcgctccctggagtgctg	AA144597
98039	tgcgctccctggagtgctgagactt	AA144597
98040	gctccctggagtgctgagacttaga	AA144597
98041	gtgctgctttctctactcccaggga	AA144597
98042	ctgctttctctactcccagggatcg	AA144597
98043	atcgggccaacctgcagctcagcaa	AA144597
98044	gggccaacctgcagctcagcaaccg	AA144597
98045	tgaaggcaaacctggccaagcagga	AA144622
98046	cgcttggtgtggcaatgtggaatta	AA144622
98047	tggacctgctcaatgatgccgacat	AA144622
98048	ggacctgctcaatgatgccgacatg	AA144622
98049	acctgctcaatgatgccgacatgtg	AA144622
98050	caatgatgccgacatgtgcaggaag	AA144622
98051	atgatgccgacatgtgcaggaagaa	AA144622
98052	tgatgccgacatgtgcaggaagaag	AA144622
98053	atgccgacatgtgcaggaagaagat	AA144622
98054	tgccgacatgtgcaggaagaagatg	AA144622
98055	agcctccacgctcattgatggcctg	AA144622
98056	cacgctcattgatggcctgagtggg	AA144622
98057	agtgcaggccaagtttgacgccgcg	AA144622
98058	ccaagtttgacgccgcgatgaagga	AA144622
98059	caagtttgacgccgcgatgaaggag	AA144622
98060	agtttgacgccgcgatgaaggagaa	AA144622

TABLE 1

SEQ ID NO	sequence	DBAxnID
12853	ttgccaaattctcagcgtttattaa	W55664
12854	tgccaaattctcagcgtttattaag	W55664
12855	gccaaattctcagcgtttattaaga	W55664
12856	ttctcagcgtttattaagaacacca	W55664
12857	acaccctgaatccaactcagcggga	W55664
12858	caccctgaatccaactcagcgggaa	W55664
12859	ccctgaatccaactcagcgggaaat	W55664
12860	cctgaatccaactcagcgggaaatg	W55664
12861	ctgaatccaactcagcgggaaatga	W55664
12862	tgaatccaactcagcgggaaatgac	W55664
12863	aatccaactcagcgggaaatgacgt	W55664
12864	atccaactcagcgggaaatgacgtt	W55664
12865	ccgacggctgtgacaccatgtgctg	M89802
12866	gctgtgacaccatgtgctgcggccg	M89802
12867	agcgcaccgaggtcttcacctgcaa	M89802
12868	ccgaggtcttcacctgcaagtgagg	M89802
12869	atccttctttgcttctggagctgcc	M89802
12870	agctgccagctgcaggcacaggagg	M89802
12871	gagatactccaggctccttcctact	M89802
12872	gcatccaaggtcaacgcaatggtgg	M89802
12873	tccaaggtcaacgcaatggtggtct	M89802
12874	aaggtcaacgcaatggtggtctggt	M89802
12875	gaaccacaaagggaccatgagactc	M89802
12876	tccctgcctgtgactggacacagaa	M89802
12877	gtgacaccatgtgctgcggccgcgg	M89802
12878	gcggctacaacacgcaccagtacac	M89802
12879	gctacaacacgcaccagtacaccaa	M89802
12880	agtacaccaaggtgtggcagtgtaa	M89802
12881	gtaactgcaaattccactggtgttg	M89802
12882	gttgcttcgtcaagtgcaacacgtg	M89802
12883	gcttcgtcaagtgcaacacgtgcag	M89802
12884	gcaacacgtgcagcgagcgcaccga	M89802
12885	gccattgccactacgagcaatctgc	W55684
12886	ccattgccactacgagcaatctgca	W55684
12887	tcctgtcttgaagggacttgctact	W55684
12888	gacttgctactgtcccttcatgccc	W55684
12889	gctggctacgcgcacagctggagca	W55684
12890	ctggctacgcgcacagctggagcag	W55684
12891	tggctacgcgcacagctggagcagt	W55684
12892	ggctacgcgcacagctggagcagta	W55684
12893	gctacgcgcacagctggagcagtac	W55684
12894	ctacgcgcacagctggagcagtacc	W55684
12895	tacgcgcacagctggagcagtacca	W55684
12896	cattgccactacgagcaatctgcag	W55684
12897	attgccactacgagcaatctgcaga	W55684
12898	ttgccactacgagcaatctgcagac	W55684
12899	tgccactacgagcaatctgcagact	W55684
12900	gccactacgagcaatctgcagacta	W55684
12901	ccctcctgtcttgaagggacttgct	W55684
12902	cctcctgtcttgaagggacttgcta	W55684
12903	ctcctgtcttgaagggacttgctac	W55684
12904	agcactgggctcttaagaaatgatg	M55512
12905	taattaggtacatcctcagagatgt	M55512
12906	aggatctcactggtaagactgttct	M55512
12907	atctcactggtaagactgttcttaa	M55512
12908	agtatctttgaatctgcaagtatgt	M55512
12909	atgatgtgctctttgtcaactaaaa	M55512
12910	gcatcactgtgtggatgtcaatctt	M55512
12911	taacctgcatctttttccacttggc	M55512
12912	cctgcatctttttccacttggctgt	M55512
12913	gcatctttttccacttggctgtcaa	M55512
12914	ttttccacttggctgtcaattaaag	M55512
12915	tccacttggctgtcaattaaagtct	M55512
12916	cctcttgtgcaggatgtggaggact	M55512
12917	gactcgttccatcatctggggcatc	M55512
12918	tcgttccatcatctggggcatcttt	M55512
12919	ttccatcatctggggcatctttaga	M55512
12920	agtgtatagaccacactggttatgt	M55512

SEQ ID NO	sequence	DBAxnID
55457	gtgcgcaagaaccccggcggctagc	AA050175
55458	acaggtgacccagttgctcagggga	AA050175
55459	gtgacccagttgctcaggggaaatg	AA050175
55460	gacccagttgctcaggggaaatggg	AA050175
55461	aactgccaaattggcccgtgcaaga	AA050175
55462	ctgccaaattggcccgtgcaagaac	AA050175
55463	gccaaattggcccgtgcaagaaccg	AA050175
55464	ttggcccgtgcaagaaccgggtgca	AA050175
55465	tgcaagaaccgggtgcacttgctca	AA050175
55466	caagaaccgggtgcacttgctcagg	AA050175
55467	agaaccgggtgcacttgctcaggga	AA050175
55468	gtgcacttgctcagggacaacccag	AA050175
55469	cccgggtctataacatccacagtcg	
55470	cgggtctataacatccacagtcgaa	
55471	gggtctataacatccacagtcgaac	
55472	ggtctataacatccacagtcgaacg	
55473	gtctataacatccacagtcgaacgg	
55474	tctataacatccacagtcgaacggt	
55475	ctataacatccacagtcgaacggtc	
55476	tataacatccacagtcgaacggtca	
55477	ataacatccacagtcgaacggtcac	
55478	taacatccacagtcgaacggtcacc	
55479	ctggaccacaagcccctggggcagg	
55480	tggaccacaagcccctggggcagga	
55481	gtctataacatccacagtcgaacgg	
55482	tctataacatccacagtcgaacggt	
55483	ctataacatccacagtcgaacggtc	
55484	tataacatccacagtcgaacggtca	
55485	ataacatccacagtcgaacggtcac	
55486	taacatccacagtcgaacggtcacc	
55487	gtcacccggtatcctgccaactcca	
55488	tcacccggtatcctgccaactccat	
55489	acccggtatcctgccaactccatcg	
55490	ggaccacaagcccctggggcaggag	
55491	actacgcgtgcggcccgcacggcta	
55492	tacctcgtcacagggatccccacca	
55493	cgtcacagggatccccaccagccac	
55494	cccgggtctataacatccacagtcg	
55495	cgggtctataacatccacagtcgaa	
55496	gggtctataacatccacagtcgaac	
55497	ggtctataacatccacagtcgaacg	
55498	tcctggagcgcatcggtatgagggt	W81953
55499	gttgacatgttccagaccgtgaaga	W81953
55500	ataccagctgtgctaccgtgcggcc	W81953
55501	cagctgtgctaccgtgcggccctgg	W81953
55502	tgctaccgtgcggccctggaatacc	W81953
55503	ctttgatcactatgcaacgtaacta	W81953
55504	tgatcactatgcaacgtaactactg	W81953
55505	gatcactatgcaacgtaactactgc	W81953
55506	tcactatgcaacgtaactactgctc	W81953
55507	cactatgcaacgtaactactgctcc	W81953
55508	ctatgcaacgtaactactgctcccc	W81953
55509	tatgcaacgtaactactgctcccct	W81953
55510	tgacatgttccagaccgtgaagacc	W81953
55511	gacatgttccagaccgtgaagaccc	W81953
55512	catgttccagaccgtgaagaccctc	W81953
55513	agaggaccaataccagctgtgctac	W81953
55514	gaggaccaataccagctgtgctacc	W81953
55515	gaccaataccagctgtgctaccgtg	W81953
55516	ccaataccagctgtgctaccgtgcg	W81953
55517	caataccagctgtgctaccgtgcgg	W81953
55518	ttcttgaactctggtcctcaaccca	X61455
55519	ggtcctcaacccagttttatagatg	X61455
55520	caaacactgacaacagctaggatct	X61455
55521	tgctgacatcacttgaagctggcag	X61455
55522	catcacttgaagctggcaggtcctg	X61455
55523	ttgaagctggcaggtcctggggtcc	X61455
55524	ctggcaggtcctggggtcctgtttg	X61455

SEQ ID NO	sequence	DBAxnID
98061	ttgacgccgcgatgaaggagaaaat	AA144622
98062	tgacgccgcgatgaaggagaaaatg	AA144622
98063	aaatggacctgctcaatgatgccga	AA144622
98064	aatggacctgctcaatgatgccgac	AA144622
98065	gaacatcctcctagatgaatatggg	AA144588
98066	catcctcctagatgaatatgggcac	AA144588
98067	ggatactatgcgctcccggagtgtg	AA144588
98068	tactatgcgctcccggagtgtgttt	AA144588
98069	tatgcgctcccggagtgtgtttgca	AA144588
98070	ctcccggagtgtgtttgcaagaagg	AA144588
98071	aaactgtgcgtagtgacgagcaggc	AA144588
98072	gtgacgagcaggccgccgatctggt	AA144588
98073	acgagcaggccgccgatctggtttc	AA144588
98074	agcaggccgccgatctggtttctcc	AA144588
98075	cagcataaacccaaagacaggcatg	AA144588
98076	cataaacccaaagacaggcatgaga	AA144588
98077	gatatcggatctcggccttgcctgt	AA144588
98078	aaacccaaagacaggcatgagatag	AA144588
98079	atcggatctcggccttgcctgtgat	AA144588
98080	ggatctcggccttgcctgtgatttc	AA144588
98081	tctcggccttgcctgtgatttctcc	AA144588
98082	cggccttgcctgtgatttctccaaa	AA144588
98083	ccttgcctgtgatttctccaaaaag	AA144588
98084	gcctcatgccagcgtgggcacccag	AA144588
98085	tcatgccagcgtgggcacccagtgg	AA144588
98086	caactggcatagggatctggtacgg	AA144601
98087	gtgtgaaaacatccccattgtgctg	AA144601
98088	ttacgacatttcagccaaaagcaac	AA144601
98089	cgacatttcagccaaaagcaactac	AA144601
98090	catttcagccaaaagcaactacaac	AA144601
98091	ttcagccaaaagcaactacaacttt	AA144601
98092	ctccagaagactcactggagactct	AA144601
98093	aagactcactggagactctaacttg	AA144601
98094	actcactggagactctaacttggag	AA144601
98095	cactggagactctaacttggagttc	AA144601
98096	ctctaacttggagttcgttgccatg	AA144601
98097	cccacctgaggtggtcatggaccca	AA144601
98098	tgaaaacatccccattgtgctgtgt	AA144601
98099	gaagtctattgtcttccaccgcaag	AA144601
98100	gtctattgtcttccaccgcaagaag	AA144601
98101	cttccaccgcaagaagaaccttcag	AA144601
98102	ccaccgcaagaagaaccttcagtat	AA144601
98103	gaagaaccttcagtattacgacatt	AA144601
98104	gaaccttcagtattacgacatttca	AA144601
98105	ccttcagtattacgacatttcagcc	AA144601
98106	tggaattccaatgaccatccttccc	AA144768
98107	ccgaatccggagttcttctgagatc	AA144768
98108	ctgtgtcttcaggacggacaagcta	AA144768
98109	gtgtcttcaggacggacaagctaaa	AA144768
98110	tgtcttcaggacggacaagctaaaa	AA144768
98111	gtcttcaggacggacaagctaaaag	AA144768
98112	gtaacacaggccagaagtgtgtaaa	AA144768
98113	taacacaggccagaagtgtgtaaac	AA144768
98114	aacacaggccagaagtgtgtaaact	AA144768
98115	gtaaactctgaacatggccttctga	AA144768
98116	taaactctgaacatggccttctgac	AA144768
98117	aaactctgaacatggccttctgacc	AA144768
98118	cgaatccggagttcttctgagatct	AA144768
98119	gatctatggcctagtgaaaagtggc	AA144768
98120	tgctttggtgggacaactgtgtctt	AA144768
98121	tgggacaactgtgtcttcaggacgg	AA144768
98122	ggacaactgtgtcttcaggacggac	AA144768
98123	gacaactgtgtcttcaggacggaca	AA144768
98124	acaactgtgtcttcaggacggacaa	AA144768
98125	aactgtgtcttcaggacggacaagc	AA144768
98126	cggtccagcagtcgtctgagctagg	AA144769
98127	tccagcagtcgtctgagctaggact	AA144769
98128	acagccttgaacatggcattcacgc	AA144769

TABLE 1

SEQ ID NO	sequence	DBAxnID
12921	tagaccacactggttatgtggcttc	M55512
12922	accacactggttatgtggcttcaag	M55512
12923	ggctggtccaggatctcactggtaa	M55512
12924	ccttgctaggcactgggatgcaaag	L04961
12925	cattctcattgtcctgtgtatctaa	L04961
12926	acctaactgttggctttatcagtga	L04961
12927	gattactttctaagtttcataatgg	L04961
12928	tactttctaagtttcataatggctg	L04961
12929	taatgcttatcacctaacaccacct	L04961
12930	tgcttatcacctaacaccacctaat	L04961
12931	ttttaccatgctatgtgttgagcga	L04961
12932	taccatgctatgtgttgagcgaaca	L04961
12933	tagattgctttctagcattatgtag	L04961
12934	tctagaccaaaacttcaattcactt	L04961
12935	ccaaaacttcaattcacttcaatga	L04961
12936	tctcattgtcctgtgtatctaaaga	L04961
12937	ttcaattcacttcaatgaggaaatg	L04961
12938	taaactgccatatatatgtgtatat	L04961
12939	atgactttgcttttatcccaggcat	L04961
12940	actttgcttttatcccaggcatgca	L04961
12941	ttgcttttatcccaggcatgcacaa	L04961
12942	ttatcccaggcatgcacaacagatc	L04961
12943	tcccaggcatgcacaacagatctgt	L04961
12944	gggacctaactgttggctttatcag	L04961
12945	acagacccatgggcttggtagtgcc	W55705
12946	agacccatgggcttggtagtgcccg	W55705
12947	cctgcgatatcccagatcatgtctc	W55705
12948	tgcgatatcccagatcatgtctctg	W55705
12949	cctgcggcatcttctggccgaatgg	W55705
12950	ctgcggcatcttctggccgaatggt	W55705
12951	gcggcatcttctggccgaatggtcg	W55705
12952	gcatcttctggccgaatggtcggag	W55705
12953	catcttctggccgaatggtcggaga	W55705
12954	tcttctggccgaatggtcggagaat	W55705
12955	cttctggccgaatggtcggagaatc	W55705
12956	tctggccgaatggtcggagaatcag	W55705
12957	gacccatgggcttggtagtgcccgc	W55705
12958	cccatgggcttggtagtgcccgctg	W55705
12959	tgcgaggcaccctgcgatatcccag	W55705
12960	gaggcaccctgcgatatcccagatc	W55705
12961	aggcaccctgcgatatcccagatca	W55705
12962	gcaccctgcgatatcccagatcatg	W55705
12963	caccctgcgatatcccagatcatgt	W55705
12964	ccctgcgatatcccagatcatgtct	W55705
12965	ttaccaagcgacagaaccagagtca	L35549
12966	acagtagtcacaacaacaagagcgg	L35549
12967	tcactgagcgtccgcaaaactgaaa	L35549
12968	actgaaactgcgatcgcaccagact	L35549
12969	actgcgatcgcaccagacttagaaa	L35549
12970	gcgatcgcaccagacttagaaacag	L35549
12971	cacagacatcagaacacagacatca	L35549
12972	catcagaacacagacatcagaccaa	L35549
12973	gctgtttcccggccaatgcaccaaa	L35549
12974	tcccggccaatgcaccaaatgaaag	L35549
12975	cggccaatgcaccaaatgaaagatt	L35549
12976	ccaatgcaccaaatgaaagattttc	L35549
12977	gtcacaacaacaagagcggacacga	L35549
12978	acaacaagagcggacacgagactaa	L35549
12979	gaatcagatggcctctctaaggccg	L35549
12980	tctaaggccggccaattgagaccct	L35549
12981	ggccaattgagaccctctgcacgag	L35549
12982	caattgagaccctctgcacgaggtg	L35549
12983	tgttcctcctgggacgtctcccagg	L35549
12984	acggtggacacctggacacgtctat	L35549
12985	ccaccagctgagaattcgtccgctc	M62867
12986	taaatgccggcttaccatctctacc	M62867
12987	aagtgcttgcttttgcccgctgac	M62867
12988	ctttttgcccgctgaccagatacat	M62867
55525	gttttaacttacacacacacacaca	X61455
55526	acacgctcacacaaaacctgtgaga	X61455
55527	actgtttccacttttagctggagtg	X61455
55528	ctttagctggcatctcctttattca	X61455
55529	ctggcatctcctttattcacacatc	X61455
55530	caacccagttttatagatgctttgc	X61455
55531	cacatccatatatgctcctcacatt	X61455
55532	gctttgcaaagaccctgtgcattgg	X61455
55533	caaagaccctgtgcattggtatctg	X61455
55534	ccctgtgcattggtatctggatgca	X61455
55535	gtatctggatgcaacctttatacaa	X61455
55536	ggatgcaacctttatacaagtgact	X61455
55537	tttatagctactttgaaggtgttag	X61455
55538	attctcacatgtgcatgacaaacac	X61455
55539	tgtacgtgttcctcagtggaggctc	X61497
55540	tgttcctcagtggaggctccagagg	X61497
55541	ttgtcatcttcctgacagccatctg	X61497
55542	tcttcctgacagccatctggaccct	X61497
55543	tgacagccatctggaccctcagtaa	X61497
55544	ccatctggaccctcagtaagtcacg	X61497
55545	ggaccctcagtaagtcacgagaggg	X61497
55546	gtgttatcccttcctctgagtccag	X61497
55547	ctatctatcattgaccacaactggg	X61497
55548	atcattgaccacaactggggatcct	X61497
55549	acagaattcacaggccaggggacat	X61497
55550	ttcacaggccaggggacatcatcag	X61497
55551	tccatgaatcttctggatgctcagg	X61497
55552	ctggatgctcaggatgctgactcct	X61497
55553	gctcaggatgctgactccttcctct	X61497
55554	gatgctgactccttcctctgagtcc	X61497
55555	aactatctatcattgacacaactgg	X61497
55556	ctatcattgacacaactggggatcc	X61497
55557	gacagaattcacaggccagggacat	X61497
55558	gggacatcatcagggcacagggctg	X61497
55559	ctggctgagcggacgacgaagacag	AA050358
55560	aaggctctagtcagactggtgaaga	AA050358
55561	agtgacgtgtcagccagtagagtga	AA050358
55562	tgacgtgtcagccagtagagtgaca	AA050358
55563	gacgtgtcagccagtagagtgacac	AA050358
55564	acactgtgggagctcaggagtctgt	AA050358
55565	aggagtctgtgccagacgtgctaat	AA050358
55566	agtctgtgccagacgtgctaattga	AA050358
55567	gtctgtgccagacgtgctaattgaa	AA050358
55568	tctgtgccagacgtgctaattgaac	AA050358
55569	ctaattgaacatcgaccactgtgag	AA050358
55570	taattgaacatcgaccactgtgaga	AA050358
55571	aggctctagtcagactggtgaagaa	AA050358
55572	attgaacatcgaccactgtgagatg	AA050358
55573	ggctctagtcagactggtgaagaac	AA050358
55574	ctctagtcagactggtgaagaacga	AA050358
55575	tctagtcagactggtgaagaacgag	AA050358
55576	aacgagttcacgagtactagtgacg	AA050358
55577	cgagttcacgagtactagtgacgtg	AA050358
55578	ctagtgacgtgtcagccagtagagt	AA050358
55579	tagtgacgtgtcagccagtagagtg	AA050358
55580	gataaaaatctcaatctacttcttt	X53176
55581	aatctcaatctacttctttattaag	X53176
55582	aacattcactgcatcaaattatgca	X53176
55583	attcactgcatcaaattatgcaaac	X53176
55584	taggactctaaaacaccacattctg	X53176
55585	gactctaaaacaccacattctgtca	X53176
55586	ccacattctgtcatagaaatggaga	X53176
55587	ctgcaaatcactgatcaagtttgtg	X53176
55588	caaatcactgatcaagtttgtgtgc	X53176
55589	catcaaaattcccatgcgataatgc	X53176
55590	aattcccatgcgataatgcatgctt	X53176
55591	ataatgcatgcttgatgttgttgaa	X53176
55592	gaacacccaggaatagtttgcatct	X53176
98129	gcgacagaaccatttgcggtggtga	AA144769
98130	acagaaccatttgcggtggtgacga	AA144769
98131	gaaccatttgcggtggtgacgactc	AA144769
98132	agactggatccgacaagcacgctcc	AA144769
98133	gatccgacaagcacgctcccagagc	AA144769
98134	ccgacaagcacgctcccagagcagt	AA144769
98135	agcacgctcccagagcagtttttgt	AA144769
98136	acgctcccagagcagtttttgtgga	AA144769
98137	ctcccagagcagtttttgtggacct	AA144769
98138	agtcgtctgagctaggactccgaat	AA144769
98139	ctgagctaggactccgaatttcagc	AA144769
98140	agctaggactccgaatttcagcgat	AA144769
98141	taggactccgaatttcagcgatgcg	AA144769
98142	gactccgaatttcagcgatgcgtga	AA144769
98143	gaatttcagcgatgcgtgagagtat	AA144769
98144	tttcagcgatgcgtgagagtatcac	AA144769
98145	tcactatccacgtgtcgcaagcagg	AA144769
98146	aagacgatcaggagctggagagaaa	W15824
98147	attgaagacctcaatggctgaaggc	W15824
98148	accatacactaggaaactgtctgcg	W15824
98149	gaaactgtctgcggtacataatcat	W15824
98150	aactgtctgcggtacataatcatga	W15824
98151	taatcatgaagaacccggaagtgga	W15824
98152	ttacactacgacccatccttcagag	W15824
98153	actacgacccatccttcagagagca	W15824
98154	tacgacccatccttcagagagcaaa	W15824
98155	cgacccatccttcagagagcaaaat	W15824
98156	acccatccttcagagagcaaaatta	W15824
98157	tgcgaattcagacccggggtgccct	W15824
98158	tgaagacctcaatggctgaaggcga	W15824
98159	aagacctcaatggctgaaggcgaga	W15824
98160	gacctcaatggctgaaggcgagagg	W15824
98161	cctcaatggctgaaggcgagaggaa	W15824
98162	atggtccaggcagctggaacagata	W15824
98163	ggtccaggcagctggaacagataga	W15824
98164	tgtgacatttgtcctgcacgaggag	W15824
98165	tgacatttgtcctgcacgaggagga	W15824
98166	ccctacagctacttctccaaagagg	AA144796
98167	agctacttctccaaagaggcagccc	AA144796
98168	agccccagctctgatgggagacaga	AA144796
98169	cccagctctgatgggagacagaaaa	AA144796
98170	gtgtaccagacactgcccgccaaac	AA144796
98171	cccgccaaactgctctggaggaaat	AA144796
98172	gccaaactgctctggaggaaatacc	AA144796
98173	aggaaatacccactgccggagaatg	AA144796
98174	tacccactgccggagaatgcggaga	AA144796
98175	ccactgccggagaatgcggagaaca	AA144796
98176	aacatgtactatttctccgagctag	AA144796
98177	tactatttctccgagctagccctga	AA144796
98178	tacttctccaaagaggcagcccgaa	AA144796
98179	ttctccaaagaggcagcccgaaagg	AA144796
98180	tccaaagaggcagcccgaaaggtga	AA144796
98181	agtgacagccagggcaaggccgact	AA144796
98182	gacagccagggcaaggccgactacg	AA144796
98183	gccgactacgtgctgtcaggttcgt	AA144796
98184	ctgtcaggttcgtgggatgaccaga	AA144796
98185	agcagccccagctctgatgggagac	AA144796
98186	cttcttcagctacagcctgggggcc	M94583
98187	cttcagctacagcctgggggccatc	M94583
98188	cctttgccggcagtggacccagact	M94583
98189	gtggacccagactggctggtgagcc	M94583
98190	ccgcagtctatgtgaccatttccct	M94583
98191	tgaccatttccctggggcccatttg	M94583
98192	ccatttccctggggcccatttgcag	M94583
98193	caaatgtgctgttcccaggggccca	M94583
98194	tgctgttcccaggggcccatttgaa	M94583
98195	tgaaaccttcccttgctgactgtac	M94583
98196	aaccttcccttgctgactgtactgt	M94583

TABLE 1

SEQ ID NO	sequence	DBAxnID
12989	tttgcccgctgaccagatacattag	M62867
12990	cgctgaccagatacattagaactat	M62867
12991	acattagaactatctgcattatcat	M62867
12992	tctgcattatcattgcacatggggt	M62867
12993	gcattatcattgcacatggggtttt	M62867
12994	ttatcattgcacatggggtttttat	M62867
12995	attgtttcatatctggtcaagttga	M62867
12996	gtttcatatctggtcaagttgagat	M62867
12997	atgccggcttaccatctctaccatc	M62867
12998	gcttaccatctctaccatcatccgg	M62867
12999	catctctaccatcatccggtttggt	M62867
13000	taccatcatccggtttggtcatcca	M62867
13001	catcatccggtttggtcatccacca	M62867
13002	gtttggtcatccaccaagaagaaat	M62867
13003	tggtcatccaccaagaagaaatgaa	M62867
13004	tcatccaccaagaagaaatgaatat	M62867
13005	ttaggctccatgaagaaggggtcat	W55743
13006	tcatttaccgcagtacccgcctggt	W55743
13007	ctgtgcctggctacaaggagaaggt	W55743
13008	tcctcgtgtcctttgcctacaaggt	W55743
13009	tcgtgtcctttgcctacaaggtcca	W55743
13010	cctacaaggtccaaggctcagacag	W55743
13011	acaaggtccaaggctcagacagcga	W55743
13012	tccaaggctcagacagcgacgagga	W55743
13013	aaggctcagacagcgacgaggaggt	W55743
13014	tggcaacaacccggatcgagacaat	W55743
13015	caacaacccggatcgagacaatgct	W55743
13016	caacccggatcgagacaatgctggg	W55743
13017	accgcagtacccgcctggtcaactg	W55743
13018	gcctggtcaactggtcctgcaccct	W55743
13019	tggtcaactggtcctgcaccctcaa	W55743
13020	ccctcaactctgccatttctgacat	W55743
13021	ctgccatttctgacatcgaggtgga	W55743
13022	ccatttctgacatcgaggtggataa	W55743
13023	tttctgacatcgaggtggataagaa	W55743
13024	ccctgctctctgtgcctggctacaa	W55743
13025	cagaagttctctttgatgagaagat	AA137883
13026	agttctctttgatgagaagataaga	AA137883
13027	agcaatgcatcaagctcagctgatc	AA137883
13028	caatgcatcaagctcagctgatctc	AA137883
13029	agctcagctgatctccaagatccca	AA137883
13030	ctcagctgatctccaagatcccaca	AA137883
13031	gctgatctccaagatcccacacatc	AA137883
13032	tgatctccaagatcccacacatcct	AA137883
13033	gatcccacacatcctgaaggagatg	AA137883
13034	tcccacacatcctgaaggagatgta	AA137883
13035	gtatgatgccgacctgttagaggag	AA137883
13036	atgatgccgacctgttagaggagga	AA137883
13037	gaaatacaggcgccatttttctaaga	AA137883
13038	aatacaggcgccatttttctaagatt	AA137883
13039	caggcgccatttttctaagattttgt	AA137883
13040	ggcgccatttttctaagattttgtca	AA137883
13041	aaaggctcagcggtaccttcttcat	AA137883
13042	aggctcagcggtaccttcttcatgg	AA137883
13043	gtaccttcttcatggtttggaatgt	AA137883
13044	accttcttcatggtttggaatgtgt	AA137883
13045	aagatgaagaccctcttaagacgag	W55754
13046	gatgaagaccctcttaagacgagaa	W55754
13047	tacctcctgggacgagatcaggcct	W55754
13048	cctcctgggacgagatcaggccttt	W55754
13049	ctcctgggacgagatcaggcctttc	W55754
13050	actgaaagctgcagggcctgtgctc	W55754
13051	tgaaagctgcagggcctgtgctcag	W55754
13052	aagctgcagggcctgtgctcaggta	W55754
13053	agctgcagggcctgtgctcaggtaa	W55754
13054	cagggcctgtgctcaggtaaaccca	W55754
13055	agggcctgtgctcaggtaaacccag	W55754
13056	tgctcaggtaaacccaggaaaagct	W55754

SEQ ID NO	sequence	DBAxnID
55593	atagtttgcatcttctaagcttcac	X53176
55594	gtttgcatcttctaagcttcacctt	X53176
55595	tgcatcttctaagcttcacctttaa	X53176
55596	cgcactttagctgatacacactgat	X53176
55597	gctgatacacactgatacaacatga	X53176
55598	acacactgatacaacatgaactgca	X53176
55599	tgatacaacatgaactgcagctcac	X53176
55600	actggccttagcattcggagctccc	AA050440
55601	tggccttagcattcggagctcccaa	AA050440
55602	ctccatcgaacactcagactatcgc	AA050440
55603	ccatcgaacactcagactatcgcag	AA050440
55604	atcgaacactcagactatcgcagca	AA050440
55605	cactcagactatcgcagcaagcttg	AA050440
55606	atcgcagcaagcttgcccagatccg	AA050440
55607	gcaagcttgcccagatccgccacat	AA050440
55608	aagcttgcccagatccgccacatct	AA050440
55609	aatgagttcacaactcacgtcatga	AA050440
55610	tgagttcacaactcacgtcatgaac	AA050440
55611	agttcacaactcacgtcatgaacct	AA050440
55612	gccttagcattcggagctcccaaga	AA050440
55613	caactcacgtcatgaacctgctgag	AA050440
55614	tagcattcggagctcccaagaggag	AA050440
55615	cgtggacccacagctgatgcgcctg	AA050440
55616	tggacccacagctgatgcgcctgga	AA050440
55617	gacccacagctgatgcgcctggaca	AA050440
55618	tggcgtatccccggacaactccatc	AA050440
55619	gcgtatccccggacaactccatcga	AA050440
55620	acaactccatcgaacactcagacta	AA050440
55621	acagcttccggatgtcagcccggac	X70391
55622	tccggatgtcagcccggacaaaggg	X70391
55623	tctgagccctccagctaacacagca	X70391
55624	agctaacacagcagcctttgcctgg	X70391
55625	cacagcagcctttgcctggaacggc	X70391
55626	agcctttgcctggaacggcctatga	X70391
55627	tgcctggaacggcctatgaaggagg	X70391
55628	cagattaactccaccttcctgagca	X70391
55629	accttcctgagcatactggtccctg	X70391
55630	ctgagcatactggtccctgtgtcaa	X70391
55631	gtccctgtgtcaagacatcctgtga	X70391
55632	gtgtcaagacatcctgtgatctcat	X70391
55633	agaatcggcagctgacagtcacccg	X70391
55634	tgacagtcacccgagggttgcaaaa	X70391
55635	acagcaaggaccccagacatggagc	X70391
55636	tgccttgctggtttgtccacgacaa	X70391
55637	ttgtccacgacaatggagctggact	X70391
55638	atggtgttcacactgactatgtcgt	X70391
55639	ttcacactgactatgtcgtctctga	X70391
55640	tctctgacatcttctgagccctcca	X70391
55641	tctcaccctgaataaagagctgttc	X70392
55642	taaagagctgttcttttccgttctg	X70392
55643	ggagccagccatccacatcttcaat	X70392
55644	agccatccacatcttcaatgagaga	X70392
55645	tgtcaccagaggcctgcagaaggac	X70392
55646	ttatttttgtgcctcagctctacagc	X70392
55647	tgtgcctcagctctacagctttctc	X70392
55648	tcagctctacagctttctcaagcgg	X70392
55649	ctacagctttctcaagcggccttaa	X70392
55650	ctttctcaagcggccttaatggctt	X70392
55651	caagcggccttaatggcttatagtt	X70392
55652	atgtgtatccttttctcccttgata	X70392
55653	gctgttcttttccgttctgctgcat	X70392
55654	cttttccgttctgctgcatcgtgtg	X70392
55655	cgttctgctgcatcgtgtgtggagg	X70392
55656	ccccatagacaagttctcacctaga	X70392
55657	agacaagttctcacctagagtgcat	X70392
55658	gttctcacctagagtgcatggactg	X70392
55659	gttaggccagttcatgcaggagcca	X70392
55660	ccagttcatgcaggagccagccatc	X70392

SEQ ID NO	sequence	DBAxnID
98197	cccttgctgactgtactgtgggata	M94583
98198	ctacagcctgggggccatctgccca	M94583
98199	acagcactgcaaggtaccccatggc	M94583
98200	gcactgcaaggtaccccatggcctc	M94583
98201	tggctactgcaacagctctttgaat	M94583
98202	cagctctttgaatcctgtcatctac	M94583
98203	ctctttgaatcctgtcatctacacc	M94583
98204	tttgaatcctgtcatctacaccatc	M94583
98205	gatcctttgccggcagtggacccag	M94583
98206	gagatcaacctgtcgagaggacctt	W08798
98207	agatcaacctgtcgagaggaccttc	W08798
98208	gtctccaacgacagtcgcatctacg	W08798
98209	tctccaacgacagtcgcatctacgt	W08798
98210	tccaacgacagtcgcatctacgtca	W08798
98211	ccaacgacagtcgcatctacgtcag	W08798
98212	acgacagtcgcatctacgtcagccg	W08798
98213	gacagtcgcatctacgtcagccgta	W08798
98214	agtcgcatctacgtcagccgtatca	W08798
98215	gtcgcatctacgtcagccgtatcaa	W08798
98216	tctacgtcagccgtatcaaagagga	W08798
98217	tacgtcagccgtatcaaagaggatg	W08798
98218	tcaacctgtcgagaggaccttcggg	W08798
98219	ggcttcaacatcgtcggtgggacag	W08798
98220	gcttcaacatcgtcggtgggacaga	W08798
98221	ttcaacatcgtcggtgggacagatc	W08798
98222	tcaacatcgtcggtgggacagatca	W08798
98223	acatcgtcggtgggacagatcaaca	W08798
98224	caacagtatgtctccaacgacagtc	W08798
98225	aacagtatgtctccaacgacagtcg	W08798
98226	ggatccctgcgcacggagtgataaa	AA144832
98227	tccctgcgcacggagtgataaaggc	AA144832
98228	gctgctcctggaccatggggctgac	AA144832
98229	gctcctggaccatggggctgacccc	AA144832
98230	caaccaacaggatggtctgggcaac	AA144832
98231	tctgggcaacacgccattgcacctg	AA144832
98232	gggcaacacgccattgcacctggcg	AA144832
98233	attgcacctggcggcctgcaccaac	AA144832
98234	ctgcaccaaccatgttcctgtcatc	AA144832
98235	caaccatgttcctgtcatcaccaca	AA144832
98236	ccatgttcctgtcatcaccacactg	AA144832
98237	tcctgtcatcaccacactgcttcga	AA144832
98238	aggcagaactgccctccattttgct	AA144832
98239	tgccctccattttgcttcctgcaat	AA144832
98240	cctccattttgcttcctgcaatggc	AA144832
98241	ccattttgcttcctgcaatggcaat	AA144832
98242	tgcttcctgcaatggcaatgaccag	AA144832
98243	ttcctgcaatggcaatgaccagatt	AA144832
98244	tgaccagattgtgcagctgctcctg	AA144832
98245	gcagctgctcctggaccatggggct	AA144832
98246	gtacctggtcacctgtgctgatgat	AA144838
98247	tacctggtcacctgtgctgatgatg	AA144838
98248	agtgctgcaggacttctggacaaac	AA144838
98249	tgctgcaggacttctggacaaacat	AA144838
98250	ggacaaacatttgccaactccaatt	AA144838
98251	caaacatttgccaactccaattcct	AA144838
98252	acgcctgcttccagattcttcttcg	AA144838
98253	gcctgcttccagattcttcttcgaa	AA144838
98254	cctgcttccagattcttcttcgaac	AA144838
98255	tgcttccagattcttcttcgaacta	AA144838
98256	gcttccagattcttcttcgaactaa	AA144838
98257	ttccagattcttcttcgaactaaag	AA144838
98258	cctggtcacctgtgctgatgatgtc	AA144838
98259	ctggtcacctgtgctgatgatgtca	AA144838
98260	ggtcacctgtgctgatgatgtcatc	AA144838
98261	cacctgtgctgatgatgtcatcaag	AA144838
98262	atgatcaacatgggcagtgctgcag	AA144838
98263	gatcaacatgggcagtgctgcagga	AA144838
98264	caacatgggcagtgctgcaggactt	AA144838

TABLE 1

SEQ ID NO	sequence	DBAxnID
13057	gaagaccctcttaagacgagaagag	W55754
13058	accctcttaagacgagaagagattg	W55754
13059	agagattgacacctacctcctggga	W55754
13060	gagattgacacctacctcctgggac	W55754
13061	gattgacacctacctcctgggacga	W55754
13062	attgacacctacctcctgggacgag	W55754
13063	tgacacctacctcctgggacgagat	W55754
13064	cacctacctcctgggacgagatcag	W55754
13065	caacttctgaaacactttggatgtc	Z67747
13066	cttctgaaacactttggatgtccta	Z67747
13067	cacatcttcaacatgaatttgcacc	Z67747
13068	atcttcaacatgaatttgcacctta	Z67747
13069	aacatgaatttgcaccttacagaaa	Z67747
13070	atgaatttgcaccttacagaaaact	Z67747
13071	ttgcaccttacagaaaactttcagg	Z67747
13072	tatgttcaaaactcacttgccataa	Z67747
13073	gttcaaaactcacttgccataaagg	Z67747
13074	aactcacttgccataaaggccaaat	Z67747
13075	tcacttgccataaaggccaaatagt	Z67747
13076	cttgccataaaggccaaatagttat	Z67747
13077	atcacttcaaatgcatattagttga	Z67747
13078	gtttcaaatgaactctcttaataga	Z67747
13079	tcaaatgaactctcttaatagataa	Z67747
13080	aatgaactctcttaatagataatat	Z67747
13081	ggtgacattcacatatactgaaaga	Z67747
13082	gacattcacatatactgaaagaatg	Z67747
13083	atggaacacatcttcaacatgaatt	Z67747
13084	gaacacatcttcaacatgaatttgc	Z67747
13085	caataggaaccttgtttctgtcgag	W55756
13086	ataggaaccttgtttctgtcgagct	W55756
13087	tcgagctcttcaaggcagtgattct	W55756
13088	cgagctcttcaaggcagtgattctg	W55756
13089	gagctcttcaaggcagtgattctga	W55756
13090	gctcttcaaggcagtgattctgaca	W55756
13091	ctcttcaaggcagtgattctgacag	W55756
13092	tcttcaaggcagtgattctgacagc	W55756
13093	atgataacatgttccgattggaaaa	W55756
13094	tgataacatgttccgattggaaaaa	W55756
13095	gataacatgttccgattggaaaaag	W55756
13096	taacatgttccgattggaaaaagag	W55756
13097	aggaaccttgtttctgtcgagctct	W55756
13098	ggaaccttgtttctgtcgagctctt	W55756
13099	tgtttctgtcgagctcttcaaggca	W55756
13100	gtttctgtcgagctcttcaaggcag	W55756
13101	tttctgtcgagctcttcaaggcagt	W55756
13102	tctgtcgagctcttcaaggcagtga	W55756
13103	ctgtcgagctcttcaaggcagtgat	W55756
13104	tgtcgagctcttcaaggcagtgatt	W55756
13105	atctggcctttctgctctagatcac	M21829
13106	agaatcaatacactgacgctgagct	M21829
13107	ctccattagttcttctcatgtgcca	M21829
13108	ccattagttcttctcatgtgccaga	M21829
13109	cacagcatggcaagggctgcagcag	M21829
13110	cagcatggcaagggctgcagcagaa	M21829
13111	tataaccctgaagggtcacgcattt	M21829
13112	ttgttttgcacagccaaggcagctg	M21829
13113	cacagccaaggcagctgctgacttc	M21829
13114	gccaaggcagctgctgacttctgga	M21829
13115	agctgctgacttctggaggatcaat	M21829
13116	ctgctgacttctggaggatcaatta	M21829
13117	aatacactgacgctgagctgtcctc	M21829
13118	tacactgacgctgagctgtcctcca	M21829
13119	cactgacgctgagctgtcctccatt	M21829
13120	ctgacgctgagctgtcctccattag	M21829
13121	cgctgagctgtcctccattagttct	M21829
13122	ctgagctgtcctccattagttcttc	M21829
13123	gagctgtcctccattagttcttctc	M21829
13124	gctgtcctccattagttcttctcat	M21829

SEQ ID NO	sequence	DBAxnID
55661	ctagacacagtcacggtcacacaga	X70393
55662	acagtcacggtcacacagaccgggc	X70393
55663	gtcacaaggggctcccagaaagatt	X70393
55664	accaaggtcatctgctggtttgtcc	X70393
55665	gtcatctgctggtttgtccataaca	X70393
55666	tttgtccataacaatggagaaggac	X70393
55667	gatggtgtccataccgactatattg	X70393
55668	accgactatattgtccccagcttgt	X70393
55669	tatattgtccccagcttgttctgag	X70393
55670	agcttgttctgagtagcatgtcagc	X70393
55671	gtagcatgtcagctgctgatgaagt	X70393
55672	tgtcagctgctgatgaagtagaagg	X70393
55673	acggtcacacagaccgggctatctg	X70393
55674	ctatctgtaacaatcaacaggaaaa	X70393
55675	tttgtgatcatcctacaccaggttt	X70393
55676	atcatcctacaccaggtttggaaga	X70393
55677	gacagtcaccggatgtcagcacaga	X70393
55678	atgtcagcacagacacatgggctgc	X70393
55679	gcacagacacatgggctgctgggcc	X70393
55680	acacatgggctgctgggccagttct	X70393
55681	taaagtacacagcctcaactcctct	X79131
55682	ctcttagaaaaccacagcctggaca	X79131
55683	gcattgcaacatcccagagcaccat	X79131
55684	ttgcaacatcccagagcaccataac	X79131
55685	caacatcccagagcaccataaccta	X79131
55686	cccagagcaccataacctagagaat	X79131
55687	agagcaccataacctagagaatgaa	X79131
55688	gcaccataacctagagaatgaagtg	X79131
55689	gaaagcatccacgcagcattctgag	X79131
55690	atccacgcagcattctgaggaagaa	X79131
55691	cacgcagcattctgaggaagaagtg	X79131
55692	tgggctgcaccgtgatattgatgac	X79131
55693	ttagaaaaccacagcctggacagca	X79131
55694	acagcagtggacctctgcctgcttc	X79131
55695	gacctctgcctgcttcagggtactg	X79131
55696	tgcctgcttcagggtactgggtcta	X79131
55697	ccatcagaagcacgctgcataagtc	X79131
55698	gaagcacgctgcataagtcattttc	X79131
55699	atactgtacttcctgatggttctcc	X79131
55700	ctgtacttcctgatggttctcctgt	X79131
55701	atgtagtctttgttgctgaagccaa	AA098488
55702	tctttgttgctgaagccaaagtctg	AA098488
55703	tacttcttggccaagtcttcattaa	AA098488
55704	ttggccaagtcttcattaagaccct	AA098488
55705	atataatcaaacatatctcctccat	AA098488
55706	taatcaaacatatctcctccatctc	AA098488
55707	cctccatctccaagttctagaatga	AA098488
55708	agtttggtctgggtgtctatgactt	AA098488
55709	tctatgacttcatagagacgcacaa	AA098488
55710	tagagacgcacaatgttggggtgct	AA098488
55711	agacgcacaatgttggggtgctgca	AA098488
55712	cgcacaatgttggggtgctgcacta	AA098488
55713	ccaaagtctgtcaacttcacaagac	AA098488
55714	tctgtcaacttcacaagaccttgtt	AA098488
55715	aagactacattctctggtttcaagt	AA098488
55716	ttctctggtttcaagtctctgtgga	AA098488
55717	tctggtttcaagtctctgtggacca	AA098488
55718	ggtttcaagtctctgtggaccacat	AA098488
55719	tctctgtggaccacatggagtttat	AA098488
55720	ctgtggaccacatggagtttatggc	AA098488
55721	accatttttcatcaagaacagcatcc	AA050453
55722	ttcatcaagaacagcatccgtttcc	AA050453
55723	gccccattttgccccatcttgaggg	AA050453
55724	ccattttgccccatcttgagggtag	AA050453
55725	gatctggacaaggcctgggaccagt	AA050453
55726	gacaaggcctgggaccagtgcattc	AA050453
55727	aaggcctgggaccagtgcattccca	AA050453
55728	tgggaccagtgcattcccaaatatt	AA050453

SEQ ID NO	sequence	DBAxnID
98265	cagtgctgcaggacttctggacaaa	AA144838
98266	ccaaaagacccacaatgtctctcca	AA144746
98267	gacccacaatgtctctccaatggtt	AA144746
98268	cattgacctgttcggcattgacgag	AA144746
98269	agaggctacgcagtacgcagagaag	AA144746
98270	tacgcagtacgcagagaagaaggca	AA144746
98271	gcaaagaagcccacactggtggcaa	AA144746
98272	aagcccacactggtggcaaaatcct	AA144746
98273	gcccacactggtggcaaaatcctcc	AA144746
98274	actgacatggcccagctagagactt	AA144746
98275	tgacatggcccagctagagacttgt	AA144746
98276	atggcccagctagagacttgtgtgc	AA144746
98277	cccagctagagacttgtgtgcgtac	AA144746
98278	cccacaatgtctctccaatggttaa	AA144746
98279	caatgtctctccaatggttaaattg	AA144746
98280	atgtctctccaatggttaaattgaa	AA144746
98281	aggagccacaccagcagaggacgat	AA144746
98282	gagccacaccagcagaggacgatga	AA144746
98283	cacaccagcagaggacgatgaggac	AA144746
98284	caatgacattgacctgttcggcatt	AA144746
98285	atgacattgacctgttcggcattga	AA144746
98286	actgaccctgatcaacatccggcag	AA144678
98287	gatcaacatccggcagtattacgtg	AA144678
98288	catcaacattggccaagccattatc	AA144678
98289	cattatcttctgccagacacgtcga	AA144678
98290	cttctgccagacacgtcgaaatgcc	AA144678
98291	aaatgccaagtggctgactgtggag	AA144678
98292	gtccctgctaagtggggaactcaca	AA144678
98293	ggaactcacagtggagcagcgagct	AA144678
98294	actcacagtggagcagcgagcttcc	AA144678
98295	gcagcgagcttccatcattcagaga	AA144678
98296	ttccatcattcagagattccgagat	AA144678
98297	catcattcagagattccgagatggc	AA144678
98298	catccggcagtattacgtgttgtgt	AA144678
98299	ggttctcataacgaccaatgtctgt	AA144678
98300	gcagtattacgtgttgtgtgagaac	AA144678
98301	gtattacgtgttgtgtgagaacagg	AA144678
98302	ataccaagccctctgtaacatctac	AA144678
98303	ccaagccctctgtaacatctacggt	AA144678
98304	ctgtaacatctacggtggcatcaac	AA144678
98305	taacatctacggtggcatcaacatt	AA144678
98306	tggcatcaacattggccaagccatt	AA144678
98307	ccacttcccaggttccctgatgtca	AA166440
98308	cccaggttccctgatgtcagtgaac	AA166440
98309	cactttgaccgagacctgcacacaa	AA166440
98310	gacctgcacacaaacagccccaggt	AA166440
98311	ctgcacacaaacagccccaggtaca	AA166440
98312	agccccaggtacagcaagggctcct	AA166440
98313	aggtacagcaagggctcctacaatg	AA166440
98314	tacagcaagggctcctacaatgacc	AA166440
98315	ggctcctacaatgacctgagctttg	AA166440
98316	tcctacaatgacctgagctttgtaa	AA166440
98317	tacaatgacctgagctttgtaacac	AA166440
98318	agctttgtaacacatgccaacaagg	AA166440
98319	ttccctgatgtcagtgaaccctggc	AA166440
98320	gtaacacatgccaacaaggagggca	AA166440
98321	cctgatgtcagtgaaccctggcatg	AA166440
98322	gaaccctggcatggccgatggatca	AA166440
98323	ccctggcatggccgatggatcaaag	AA166440
98324	gagctcttttgtcacaatgagcgtg	AA166440
98325	ttttgtcacaatgagcgtgtagtcc	AA166440
98326	catgggttcttctcgttgacagcag	AA166440
98327	atccacttgaccgagacctgcaca	AA166440
98328	tgttctgggtccttgagaacacatg	AA144904
98329	ccctatgtgtgtgaccagtgtggat	AA144904
98330	cctcgatctgcgtctcttcaaagac	AA144904
98331	cgatctgcgtctcttcaaagacatg	AA144904
98332	tctgcgtctcttcaaagacatgtca	AA144904

TABLE 1

SEQ ID NO	sequence	DBAxnID
13125	cacctgctgatcgagaagcatgct	W55770
13126	atgctgattatatcgcctcgtacgg	W55770
13127	atcgcctcgtacggctcaaagaaag	W55770
13128	tcgcctcgtacggctcaaagaaaga	W55770
13129	cgcctcgtacggctcaaagaaagat	W55770
13130	tggggcagcttcatcggatgaataa	W55770
13131	ggagtcagtgccagcatcgggcacg	W55770
13132	gagtcagtgccagcatcgggcacga	W55770
13133	tgctgattatatcgcctcgtacggc	W55770
13134	gctgattatatcgcctcgtacggct	W55770
13135	gattatatcgcctcgtacggctcaa	W55770
13136	attatatcgcctcgtacggctcaaa	W55770
13137	ttatatcgcctcgtacggctcaaag	W55770
13138	tatatcgcctcgtacggctcaaaga	W55770
13139	atatcgcctcgtacggctcaaagaa	W55770
13140	tatcgcctcgtacggctcaaagaaa	W55770
13141	tcgccgactaccagcagaccatcaa	W55634
13142	accagcagaccatcaagaagtaccg	W55634
13143	accagcaggaagcgtctgtggagag	W55634
13144	gacagcagcagccaccgtcagagac	W55634
13145	agcagcagccaccgtcagagacttt	W55634
13146	agcagccaccgtcagagacttttga	W55634
13147	caccgtcagagacttttgatttcaa	W55634
13148	agtttgctgagaccaaggctcatgc	W55634
13149	ctcatgccaaggcgatcgagatgga	W55634
13150	atgccaaggcgatcgagatggagtt	W55634
13151	ttgcccaggccaaccggcacatgtc	W55634
13152	acatgtccctgctgacggcctttat	W55634
13153	ccatcaagaagtaccgccagttgac	W55634
13154	catgtccctgctgacggcctttatg	W55634
13155	agaagtaccgccagttgactgccca	W55634
13156	gccagttgactgcccacctacagga	W55634
13157	ctgcccacctacaggatgtcaatcg	W55634
13158	cccacctacaggatgtcaatcggga	W55634
13159	acctacaggatgtcaatcgggagct	W55634
13160	atgtcaatcgggagctgaccaacca	W55634
13161	tgaccaaccagcaggaagcgtctgt	W55634
13162	tctgattcactaacccatctgccca	D45210
13163	acccatctgcccagtgttgcagttc	D45210
13164	ctgatgtcatcactgatttagaaat	D45210
13165	tgtctctgcacaaagcaaagctttg	D45210
13166	tctgagaccctgaagtaggaaacaa	D45210
13167	agattctggattcctcagctatttt	D45210
13168	cctcagctatttttctggagcattt	D45210
13169	tatacttattcaaagagctggtatg	D45210
13170	aatcatgtaccagttgatctcttca	D45210
13171	gtaccagttgatctcttcatcacag	D45210
13172	aatatgctagcagctaagcacaaca	D45210
13173	ctagcagctaagcacaacagatgaa	D45210
13174	agtgttgcagttccagacatcacca	D45210
13175	gcagttccagacatcaccaggccaa	D45210
13176	ccagacatcaccaggccaactcaag	D45210
13177	atcaccaggccaactcaaggtcttt	D45210
13178	actcaaggtctttgttgataagatt	D45210
13179	attgtagcagtatcccaggtcagtg	D45210
13180	gcagtatcccaggtcagtgggaaaa	D45210
13181	aggcctctgatgtcatcactgattt	D45210
13182	accttctctttctcaaagccttctg	W55725
13183	tctttctcaaagccttctgtcccct	W55725
13184	tactgctgccaccttctgttccttt	W55725
13185	tgctgccaccttctgttccttaga	W55725
13186	tgccaccttctgttccttagaact	W55725
13187	ctgttcctttagaactatgcaaaga	W55725
13188	ttcctttagaactatgcaaagactg	W55725
13189	aactatgcaaagactgcccttcctc	W55725
13190	tatgcaaagactgcccttcctctcg	W55725
13191	ctgtgccctaagatctcagtttgtt	W55725
13192	tgccctaagatctcagtttgtttga	W55725

SEQ ID NO	sequence	DBAxnID
55729	gaccagtgcattcccaaatattcct	AA050453
55730	cagtgcattcccaaatattccttca	AA050453
55731	tgcattcccaaatattccttcactc	AA050453
55732	cccaaatattccttcactcggctag	AA050453
55733	atcaagaacagcatccgtttccctc	AA050453
55734	tattccttcactcggctagatggag	AA050453
55735	aacagcatccgtttccctctcttca	AA050453
55736	agcatccgtttccctctcttcaact	AA050453
55737	ttccctctcttcaactttgagaagg	AA050453
55738	ctcaccgacaaggacataaagaagt	AA050453
55739	aagtgccgcttccatcctgaaaagg	AA050453
55740	tgccgcttccatcctgaaaaggccc	AA050453
55741	cgcttccatcctgaaaaggccccat	AA050453
55742	aaccctccaggcagccgtcagctgt	AA028405
55743	agccgtcagctgtgcccctgaagcc	AA028405
55744	cttcttatcctgttctacagcccag	AA028405
55745	cctgttctacagcccagggtctggt	AA028405
55746	tgttctacagcccagggtctggtga	AA028405
55747	ctacagcccagggtctggtgagaag	AA028405
55748	cctttgaggtctacatatggtccga	AA028405
55749	gtctacatatggtccgagaagcaga	AA028405
55750	ctacatatggtccgagaagcagata	AA028405
55751	acatatggtccgagaagcagatagt	AA028405
55752	gaagccacagagtcttggaaaatca	AA028405
55753	aatcaactgcagcaccaactgcgca	AA028405
55754	gctgtgcccctgaagcccatagact	AA028405
55755	tgtgcccctgaagcccatagactcc	AA028405
55756	tgaagcccatagactccacagaccc	AA028405
55757	cacctgagatgtcttctttgcttg	AA028405
55758	cttcttttgcttgctggagcctgtc	AA028405
55759	ttgcttgctggagcctgtctcttct	AA028405
55760	gcttgctggagcctgtctcttctta	AA028405
55761	ctcttcttatcctgttctacagccc	AA028405
55762	aggacgtcactgggtctgagcggtc	AA050658
55763	ggacgtcactgggtctgagcggtca	AA050658
55764	gtcacctgcattggtgcatgaagaa	AA050658
55765	tcacctgcattggtgcatgaagaat	AA050658
55766	gtaatgagctggactgctggcatgg	AA050658
55767	atgagctggactgctggcatggaga	AA050658
55768	aagattgactggctgtcaagtagga	AA050658
55769	agattgactggctgtcaagtaggac	AA050658
55770	gattgactggctgtcaagtaggact	AA050658
55771	attgactggctgtcaagtaggactg	AA050658
55772	ttgactggctgtcaagtaggactga	AA050658
55773	tgactggctgtcaagtaggactgac	AA050658
55774	gacgtcactgggtctgagcggtcac	AA050658
55775	tctgagcggtcacctgcattggtgc	AA050658
55776	ctgagcggtcacctgcattggtgca	AA050658
55777	tgagcggtcacctgcattggtgcat	AA050658
55778	agcggtcacctgcattggtgcatga	AA050658
55779	gcggtcacctgcattggtgcatgaa	AA050658
55780	cggtcacctgcattggtgcatgaag	AA050658
55781	ggtcacctgcattggtgcatgaaga	AA050658
55782	aaggactgacgcgaccatgtgcaat	X65687
55783	tgacgcgaccatgtgcaatgtgggc	X65687
55784	ttaatcttggtgacaggagagcccc	X65687
55785	gctcttagcgggtaccctgggagcg	X65687
55786	ctctcctagcacttgtcctttaga	X65687
55787	tagcacttgtcctttagatgcttt	X65687
55788	gccattgctgcaccatgtcgttttt	X65687
55789	attgctgcaccatgtcgttttttac	X65687
55790	gcaccatgtcgttttttacaacatt	X65687
55791	ttacaacattcagcttcagcatttt	X65687
55792	caacattcagcttcagcatttttac	X65687
55793	tcagcttcagcatttttactattat	X65687
55794	cgcgaccatgtgcaatgtgggctca	X65687
55795	tccagggccaaagtccagcaagaag	X65687
55796	agggccaaagtccagcaagaaggca	X65687

SEQ ID NO	sequence	DBAxnID
98333	gcgtctcttcaaagacatgtcaaaa	AA144904
98334	tctcttcaaagacatgtcaaaattc	AA144904
98335	ggcgttgcttccctagttctgctga	AA144904
98336	gttgcttccctagttctgctgacct	AA144904
98337	tccctagttctgctgacctcttaga	AA144904
98338	ctagttctgctgacctcttagaaca	AA144904
98339	gttctgctgacctcttagaacacga	AA144904
98340	tatgtgtgtgaccagtgtggatata	AA144904
98341	gagaagccctacgtgtgtaatcatt	AA144904
98342	aagccctacgtgtgtaatcattgtg	AA144904
98343	ccctacgtgtgtaatcattgtggga	AA144904
98344	gggaagactttccctcgatctgcgt	AA144904
98345	aagactttccctcgatctgcgtctc	AA144904
98346	actttccctcgatctgcgtctcttc	AA144904
98347	ttccctcgatctgcgtctcttcaaa	AA144904
98348	tgacatctctgaaccacaaatattt	AA144987
98349	catctctgaaccacaaatatttccg	AA144987
98350	ttatcaaatcaggcactgctttcaa	AA144987
98351	tcaaatcaggcactgctttcaaggt	AA144987
98352	aatcaggcactgctttcaaggtgaa	AA144987
98353	gtgacatcatggacacgtttaaact	AA144987
98354	cccctgagatcaacgccaagacgtc	AA144987
98355	ctgagatcaacgccaagacgtccgt	AA144987
98356	agatcaacgccaagacgtccgtcat	AA144987
98357	acgccaagacgtccgtcattgattt	AA144987
98358	ccaagacgtccgtcattgatttcac	AA144987
98359	agacgtccgtcattgatttcaccgt	AA144987
98360	tgaaccacaaatatttccgcacaca	AA144987
98361	ccgtcattgatttcaccgtcaccat	AA144987
98362	accacaaatatttccgcacacacct	AA144987
98363	atttccgcacacacctggaggacag	AA144987
98364	tccgcacacacctggaggacagcct	AA144987
98365	gcacacacctggaggacagcctctc	AA144987
98366	acctggaggacagcctctcgttggg	AA144987
98367	cccttctcatcgaggatattcgaga	AA144987
98368	acccagctctggataatgtgctgga	AA144987
98369	tatcacatacatagcccctagccc	X59379
98370	ctcctacgtattcttttcctgatca	X59379
98371	atacacattgatttctttgtgcctg	X59379
98372	gttttatgtgcacacattaggcatt	X59379
98373	tgtgcacacattaggcattgagaat	X59379
98374	attatccctgttcatcataagcact	X59379
98375	cctgttcatcataagcactttacg	X59379
98376	ttctgctggtctccaattaccaaga	X59379
98377	cttatgccatgatagctttctacac	X59379
98378	ccatgatagctttctacactgtatt	X59379
98379	tagctttctacactgtattacataa	X59379
98380	ctttctacactgtattacataaata	X59379
98381	cgtattcttttcctgatcactatgc	X59379
98382	cttttcctgatcactatgcattttg	X59379
98383	ctgatcactatgcattttgaacatt	X59379
98384	ttccatgactgcatcttactgtaca	X59379
98385	gactgcatcttactgtacagattgc	X59379
98386	atcttactgtacagattgctgcttc	X59379
98387	ctgtacagattgctgcttctgctct	X59379
98388	ctgctctctttgtgatataggaata	X59379
98389	gactcaaggctgcaatccaagtatc	AA145067
98390	ctcaaggctgcaatccaagtatcaa	AA145067
98391	catgagtcacttcgggtcggccatg	AA145067
98392	tgagtcacttcgggtcggccatgat	AA145067
98393	gagtcacttcgggtcggccatgatg	AA145067
98394	gtcacttcgggtcggccatgatgta	AA145067
98395	tcacttcgggtcggccatgatgtat	AA145067
98396	acttcgggtcggccatgatgtatct	AA145067
98397	cttcgggtcggccatgatgtatctc	AA145067
98398	tcgggtcggccatgatgtatctcta	AA145067
98399	tgatgtatctctatgccatacaagt	AA145067
98400	gatgtatctctatgccatacaagta	AA145067

TABLE 1

SEQ ID NO	sequence	DBAxnID
13193	tttctctccttgacttacagaacgt	W55725
13194	tcaaagccttctgtcccctgttctt	W55725
13195	aagccttctgtcccctgttcttgca	W55725
13196	gtcccctgttcttgcaaagtgctgc	W55725
13197	ccctgttcttgcaaagtgctgcact	W55725
13198	tgttcttgcaaagtgctgcacttct	W55725
13199	aaagtgctgcacttctgctgagaat	W55725
13200	ttctgctgagaatccacgctgccta	W55725
13201	tgctgagaatccacgctgcctactg	W55725
13202	gccctgaatgcaggtgcagttttgg	W55727
13203	ttgttttcttagccagtgggcaaag	W55727
13204	ctttagcttttattctgtgaacaga	W55727
13205	tttagcttttattctgtgaacagat	W55727
13206	agcttttattctgtgaacagatgtg	W55727
13207	gcttttattctgtgaacagatgtga	W55727
13208	cttttattctgtgaacagatgtgac	W55727
13209	ttttattctgtgaacagatgtgact	W55727
13210	acagatgtgactcctgtgctgtggg	W55727
13211	cagatgtgactcctgtgctgtgggg	W55727
13212	agatgtgactcctgtgctgtgggga	W55727
13213	tccacaatctttgtaagaaaagaat	W55727
13214	tgttttcttagccagtgggcaaagt	W55727
13215	gttttcttagccagtgggcaaagtg	W55727
13216	tttcttagccagtgggcaaagtgaa	W55727
13217	ttcttagccagtgggcaaagtgaaa	W55727
13218	tcttagccagtgggcaaagtgaaat	W55727
13219	cttagccagtgggcaaagtgaaatg	W55727
13220	cagggcttctttagcttttattctg	W55727
13221	tctttagcttttattctgtgaacag	W55727
13222	tcagcctttaccctcatcagagaa	M36146
13223	tttaccctcatcagagaatccaca	M36146
13224	gcacctctctgaaacgagaaaaagg	M36146
13225	tgcctcccaggcggaatcaaagcag	M36146
13226	ttggcagagttcccggcttgctgat	M36146
13227	ccggcttgctgatgcatggaacaat	M36146
13228	aggctcaagtcaagggctgaatctt	M36146
13229	gaatcttctgttgaccttggtggaa	M36146
13230	atactggcttgtggctttgctcccc	M36146
13231	gctccccatggtactgtagtataaa	M36146
13232	gaaatacactcactgctggcgtggt	M36146
13233	cactcactgctggcgtggtaatgac	M36146
13234	ccgtatccctgtgctcagtgtggca	M36146
13235	ttcagtcagcgctctgatctggtta	M36146
13236	atgtgactgatacctgtgtgaagcc	M36146
13237	tgaagccttcagcactgtgaccaat	M36146
13238	cttcagcactgtgaccaatcttact	M36146
13239	cactgtgaccaatcttactggatat	M36146
13240	gatctgcaggagccgtttgcacctc	M36146
13241	ccgtttgcacctctctgaaacgaga	M36146
13242	cgctactggtcggttgacaagctcg	D12822
13243	gctactggtcggttgacaagctcgg	D12822
13244	ctggaggacctgagctcctgcccac	D12822
13245	aggacctgagctcctgcccacgggc	D12822
13246	ggcacacgcaggggctctgcgcact	D12822
13247	gcacacgcaggggctctgcgcactt	D12822
13248	ggctctgcgcacttctccagcctgg	D12822
13249	gctctgcgcacttctccagcctgga	D12822
13250	tctgcgcacttctccagcctggagt	D12822
13251	ctgcgcacttctccagcctggagtc	D12822
13252	cgcacttctccagcctggagtccga	D12822
13253	cacttctccagcctggagtccgagg	D12822
13254	gccactgcgccagcctggagctgct	D12822
13255	actgcgccagcctggagctgctacc	D12822
13256	tgcgccagcctggagctgctaccgc	D12822
13257	ccacctcgcgttcgctggaggacct	D12822
13258	tcgcgttcgctggaggacctgagct	D12822
13259	cgcgttcgctggaggacctgagctc	D12822
13260	cgttcgctggaggacctgagctcct	D12822

SEQ ID NO	sequence	DBAxnID
55797	tccctgtggtatgctaactggccct	X65687
55798	gtcacagctgcttcagccctagggc	X65687
55799	agtttgttgctgtgtcccatgctgt	X65687
55800	ctgtgtcccatgctgttcagagaca	X65687
55801	cccatgctgttcagagacatttagg	X65687
55802	ttttctctgcaagaatgttacatat	X75018
55803	agtgacatttcataccctgtatata	X75018
55804	agtatccagtttctgaggctcagag	X75018
55805	cagtttctgaggctcagaggtaaca	X75018
55806	tttctgaggctcagaggtaacagct	X75018
55807	agaggtaacagctctctggtactgg	X75018
55808	ggtaacagctctctggtactggtct	X75018
55809	agctctctggtactggtcttgcatg	X75018
55810	ctggtactggtcttgcatgattgca	X75018
55811	gtcttgcatgattgcatgaggtgtt	X75018
55812	tacgagtcctttcaaatgtgctttc	X75018
55813	atgtgctttctttaacctagatgga	X75018
55814	tcataccctgtatatatagagatgt	X75018
55815	tcagctcccttgcagagcttttgct	X75018
55816	tatctggatgttttctgtttggcca	X75018
55817	gatgttttctgtttggccaggctgt	X75018
55818	gttttctgtttggccaggctgttga	X75018
55819	ttctgtttggccaggctgttgattt	X75018
55820	ttgcccagtatccagtttctgaggc	X75018
55821	cccagtatccagtttctgaggctca	X75018
55822	ggactcttccagactagaacactgt	X01974
55823	ctcttccagactagaacactgtacc	X01974
55824	tctgtcatctcaaaactgtcattca	X01974
55825	atctcaaaactgtcattcattttgg	X01974
55826	tcaaaactgtcattcattttggcag	X01974
55827	aaactgtcattcattttggcaggaa	X01974
55828	tcattcattttggcaggaattcaaa	X01974
55829	atttctgtaaaggcacttgttctct	X01974
55830	aaggcacttgttctctttcaattca	X01974
55831	gcacttgttctctttcaattcagtt	X01974
55832	ctctttcaattcagttctatgtata	X01974
55833	tttcaattcagttctatgtatacat	X01974
55834	ttccagactagaacactgtacctct	X01974
55835	agaacactgtacctctctgctcata	X01974
55836	acactgtacctctctgctcatatct	X01974
55837	tacctctctgctcatatctctgtca	X01974
55838	ctctctgctcatatctctgtcatct	X01974
55839	tctgctcatatctctgtcatctcaa	X01974
55840	catatctctgtcatctcaaaactgt	X01974
55841	atctctgtcatctcaaaactgtcat	X01974
55842	ttggcctttggattggcgtcaaaga	AA050789
55843	atttaagccgcgatatgggcttgct	AA050789
55844	acaagctgaagccttccaacgctca	AA050789
55845	agctgaagccttccaacgctcaatc	AA050789
55846	tgaagccttccaacgctcaatctca	AA050789
55847	agccttccaacgctcaatctcaaga	AA050789
55848	ccaacgctcaatctcaagatatagt	AA050789
55849	acgctcaatctcaagatatagttcc	AA050789
55850	ctcaatctcaagatatagttccaac	AA050789
55851	aagatatagttccaaccataggatt	AA050789
55852	tagttccaaccataggatttagcat	AA050789
55853	ttccaaccataggatttagcataga	AA050789
55854	gccgcgatatgggcttgctggacag	AA050789
55855	atatgggcttgctggacagactttc	AA050789
55856	tgctggacagactttcaggtttgct	AA050789
55857	acagactttcaggtttgcttggcct	AA050789
55858	gactttcaggtttgcttggcctgaa	AA050789
55859	tttcaggtttgcttggcctgaagaa	AA050789
55860	caggtttgcttggcctgaagaagaa	AA050789
55861	ccacaatcattaacaagctgaagcc	AA050789
55862	cacagcacagacagacactcaggca	AA050791
55863	cagcacagacagacactcaggcacc	AA050791
55864	cacagcaatcagatggccatagtgc	AA050791

SEQ ID NO	sequence	DBAxnID
98401	tcaaggctgcaatccaagtatcaag	AA145067
98402	gctgcaatccaagtatcaagcactg	AA145067
98403	ctgcaatccaagtatcaagcactgt	AA145067
98404	tagttctcatgagtcacttcgggtc	AA145067
98405	agttctcatgagtcacttcgggtcg	AA145067
98406	ttctcatgagtcacttcgggtcggc	AA145067
98407	tctcatgagtcacttcgggtcggcc	AA145067
98408	tcatgagtcacttcgggtcggccat	AA145067
98409	aaagttcagccctgagaacacaagg	W54682
98410	gttcagccctgagaacacaaggaag	W54682
98411	tccgcaccgaggatggcttcagtct	W54682
98412	ccgcaccgaggatggcttcagtctg	W54682
98413	gcaccgaggatggcttcagtctgaa	W54682
98414	aggatggcttcagtctgaaggagca	W54682
98415	tgcaagacatgggcctcattgatct	W54682
98416	acatgggcctcattgatctcttcag	W54682
98417	tcattgatctcttcagccctgaaaa	W54682
98418	cattgatctcttcagccctgaaaag	W54682
98419	atctcttcagccctgaaaagtccca	W54682
98420	tcttcagccctgaaaagtcccaact	W54682
98421	ttcagccctgagaacacaaggaagg	W54682
98422	accgttctataaggtcgatgggcag	W54682
98423	agtgcctatgatgtaccagggagtg	W54682
98424	agactatgcttgtggtccacatgcc	W54682
98425	ctatgcttgtggtccacatgccccg	W54682
98426	tatgcttgtggtccacatgccccgc	W54682
98427	cccgcttccgcaccgaggatggctt	W54682
98428	gcttccgcaccgaggatggcttcag	W54682
98429	ggctacttccgtatccgcagaggaa	AA144887
98430	ttccgtatccgcagaggaactgatg	AA144887
98431	gatttagtcacatgctgaagacttt	AA144887
98432	ttagtcacatgctgaagacttttttc	AA144887
98433	gtcacatgctgaagacttttttcaga	AA144887
98434	ctttttcagagcaatatcagaagct	AA144887
98435	aatatcagaagcttaccactaagca	AA144887
98436	atcagaagcttaccactaagcatct	AA144887
98437	agcttaccactaagcatctttaaag	AA144887
98438	ttaccactaagcatctttaaagaat	AA144887
98439	tgaacttaaaaccatccttgatgtt	AA144887
98440	aaccatccttgatgtttctgctttt	AA144887
98441	cgtatccgcagaggaactgatgaat	AA144887
98442	agtatagccgtggcgccataccgat	AA144887
98443	gtggcgccataccgattcctaaatt	AA144887
98444	tagctcccagtgttacatacgggtc	AA144887
98445	gtgttacatacgggtctttatcact	AA144887
98446	ttacatacgggtctttatcactcac	AA144887
98447	acgggtctttatcactcacagagtg	AA144887
98448	tatcactcacagagtgatttagtca	AA144887
98449	agagacttcaacctcaaagtgttat	AA145188
98450	agacttcaacctcaaagtgttatca	AA145188
98451	tgtgctgtcctgattagttgcagct	AA145188
98452	tgctgtcctgattagttgcagctgg	AA145188
98453	gctgtcctgattagttgcagctggt	AA145188
98454	tgtcctgattagttgcagctggtag	AA145188
98455	gtcctgattagttgcagctggtaga	AA145188
98456	attagttgcagctggtagatggaag	AA145188
98457	tagttgcagctggtagatggaagaa	AA145188
98458	tgaatgctggctatctccaagaatc	AA145188
98459	gaatgctggctatctccaagaatcg	AA145188
98460	atgctggctatctccaagaatcgga	AA145188
98461	gacttcaacctcaaagtgttatcag	AA145188
98462	tctccaagaatcggagcagactccg	AA145188
98463	cttcaacctcaaagtgttatcaggc	AA145188
98464	ttcaacctcaaagtgttatcaggca	AA145188
98465	caacctcaaagtgttatcaggcaga	AA145188
98466	aacctcaaagtgttatcaggcagat	AA145188
98467	tgactgtgctgtcctgattagttgc	AA145188
98468	gactgtgctgtcctgattagttgca	AA145188

TABLE 1

SEQ ID NO	sequence	DBAxnID
13261	gttcgctggaggacctgagctcctg	D12822
13262	tcacttccacagaaacgtgacatgc	D14423
13263	cttccacagaaacgtgacatgcacg	D14423
13264	acacctggaccccggattgcatcat	D14423
13265	ccccggattgcatcataaaacgtgc	D14423
13266	gcatcataaaacgtgcctgctcctg	D14423
13267	ctgcctgtaaggtcctcctgttggc	D14423
13268	ctactctgcatagaagctgcatatg	D14423
13269	tatgaacagcctcaaccccatagca	D14423
13270	caaccccatagcaattatggtttct	D14423
13271	ggtttctgtagtgtcctgcattaaa	D14423
13272	aaatgctatctctcttcgtcaacaa	D14423
13273	tatctctcttcgtcaacaataaagg	D14423
13274	aaacgtgacatgcacgacttctttg	D14423
13275	ttctttgtgggacttatgggcaaga	D14423
13276	aggaacagccaaccagacactccca	D14423
13277	cccagctttggcatcctcaaataat	D14423
13278	tttggcatcctcaaataattcccca	D14423
13279	atcctcaaataattccccagtacag	D14423
13280	taattccccagtacagaaaggcact	D14423
13281	cactctacacctggaccccggattg	D14423
13282	ttctgctccaggctcaggttagtga	M32309
13283	aaagcgatcctagagcacttgagga	M32309
13284	cgtccttcagtgcacgtctgaacag	M32309
13285	ccttcagtgcacgtctgaacagcct	M32309
13286	tgaacagcctgtccctcctactctt	M32309
13287	tcttacatagcccccagtgttgcat	M32309
13288	agtgttgcattcctcaaacgtagga	M32309
13289	gcattcctcaaacgtaggaagactt	M32309
13290	ttcctcaaacgtaggaagacttgat	M32309
13291	tgtgtttaattggcccagagttaat	M32309
13292	ggacattttgctgcattttacaact	M32309
13293	tttgacatctttgctattgtaaata	M32309
13294	agttgtcaaggggctcagcaaaagc	M32309
13295	cagagactgactgcctttagccttt	M32309
13296	agactgactgcctttagcctttccg	M32309
13297	aaagtcctgagtcttgtcagtcact	M32309
13298	agtcttgtcagtcactaagtccgtc	M32309
13299	cttgtcagtcactaagtccgtcctt	M32309
13300	agtcactaagtccgtccttcagtgc	M32309
13301	taagtccgtccttcagtgcacgtct	M32309
13302	ttctaactcacacctcatgcgacat	W55814
13303	cctcatgcgacatcacagaactcat	W55814
13304	tggtcataacctactgctgctaata	W55814
13305	tcataacctactgctgctaatagca	W55814
13306	cctactgctgctaatagcaggcacc	W55814
13307	actgctgctaatagcaggcacctct	W55814
13308	aatagcaggcacctctgttctttat	W55814
13309	agcaggcacctctgttctttattct	W55814
13310	tctttattcttccttggccaaaatg	W55814
13311	ttcttccttggccaaaatgaggact	W55814
13312	ttccttggccaaaatgaggactgta	W55814
13313	taatgtaaacacacatttcaaaggc	W55814
13314	catgcgacatcacagaactcatctt	W55814
13315	gcgacatcacagaactcatcttgtc	W55814
13316	tcacagaactcatcttgtccaatag	W55814
13317	cagaactcatcttgtccaatagcaa	W55814
13318	aactcatcttgtccaatagcaagga	W55814
13319	tcttgtccaatagcaaggaagaggg	W55814
13320	gtgaaaccttgctcttggtcataac	W55814
13321	ccttgctcttggtcataacctactg	W55814
13322	attgtcatggatggctgtgaatatg	M34148
13323	tccggtcactaccagaggtttgatg	M34148
13324	cctattctcttgctgtcagatgtct	M34148
13325	ctcttgctgtcagatgtctcttcat	M34148
13326	ctgtcagatgtctcttcatccaaag	M34148
13327	tccaaaggtgttgaccccagcagct	M34148
13328	gaccccagcagctctgagattacca	M34148

SEQ ID NO	sequence	DBAxnID
55865	gcaatcagatggccatagtgctgaa	AA050791
55866	aatcagatggccatagtgctgaacc	AA050791
55867	agtgctgaaccctgacctctacact	AA050791
55868	tgctgaaccctgacctctacactta	AA050791
55869	ctgaaccctgacctctacacttagc	AA050791
55870	gaaccctgacctctacacttagcct	AA050791
55871	tgacctctacacttagcctcgcggt	AA050791
55872	ctctacacttagcctcgcggtaagg	AA050791
55873	ttagcctcgcggtaaggagacacca	AA050791
55874	gcacagacagacactcaggcaccag	AA050791
55875	acagacagacactcaggcaccagcc	AA050791
55876	agacactcaggcaccagccagccag	AA050791
55877	acactcaggcaccagccagccaggg	AA050791
55878	ggtcgccaccataccgttcagaaca	AA050791
55879	caggctgccctacgagcctcaggag	AA050791
55880	ggctgccctacgagcctcaggagga	AA050791
55881	catacctcagcacacacagcaatca	AA050791
55882	atggccgagccggaccgattcagac	AA105536
55883	ccgagccggaccgattcagactcgg	AA105536
55884	gtcttctagacgagctgaccctcga	AA105536
55885	cttctagacgagctgaccctcgaag	AA105536
55886	tctagacgagctgaccctcgaagga	AA105536
55887	gacgagctgaccctcgaaggagtga	AA105536
55888	agctgaccctcgaaggagtgacacg	AA105536
55889	agtgacacgctacatgcagagcgag	AA105536
55890	tgacacgctacatgcagagcgagcg	AA105536
55891	acacgctacatgcagagcgagcgct	AA105536
55892	acgctacatgcagagcgagcgctgc	AA105536
55893	gagcgctgccgcaaggtcatctgtt	AA105536
55894	cggaccgattcagactcggacactg	AA105536
55895	gaccgattcagactcggacactgag	AA105536
55896	ccgattcagactcggacactgaggg	AA105536
55897	gattcagactcggacactgagggag	AA105536
55898	atggacttcctgaggaatttattca	AA105536
55899	ttattcacccagaccctgggcctgg	AA105536
55900	aggagcgtcttctagacgagctgac	AA105536
55901	gcgtcttctagacgagctgaccctc	AA105536
55902	tttgaacctcttcacatcaaaagac	X01973
55903	acctcttcacatcaaaagacttgtc	X01973
55904	ttgagcaattcttctcaatatgcaa	X01973
55905	gagcaattcttctcaatatgcaaaa	X01973
55906	agcaattcttctcaatatgcaaaac	X01973
55907	caattcttctcaatatgcaaaaccg	X01973
55908	aattcttctcaatatgcaaaaccgt	X01973
55909	tcttctcaatatgcaaaaccgtgtt	X01973
55910	ttctcaatatgcaaaaccgtgtttg	X01973
55911	tctcaatatgcaaaaccgtgtttgt	X01973
55912	atatgcaaaaccgtgtttgtatctg	X01973
55913	tatgcaaaaccgtgtttgtatctga	X01973
55914	tcacatcaaaagacttgtctgctac	X01973
55915	cacatcaaaagacttgtctgctact	X01973
55916	atcaaaagacttgtctgctacttgg	X01973
55917	aagacttgtctgctacttggaatgc	X01973
55918	agacttgtctgctacttggaatgca	X01973
55919	tgtctgctacttggaatgcaactct	X01973
55920	ttcagcaatcttgagcaattcttct	X01973
55921	cttgagcaattcttctcaatatgca	X01973
55922	catcttcacatcaaaggactcatct	
55923	cacatcaaaggactcatctgctgca	
55924	ctcagttaacttgctggcaagattg	
55925	taacttgctggcaagattgagcaag	
55926	gtgactcctgagacaaagtgtggag	
55927	ttttctgaaccagaacactgcatct	
55928	gaaccagaacactgcatctcacttt	
55929	gaacactgcatctcactttataaga	
55930	cataactttcacatatgagtacaaa	
55931	gatgtttcagcaatcttgagcgatc	
55932	tcagcaatcttgagcgatcattttc	

SEQ ID NO	sequence	DBAxnID
98469	ctgtgctgtcctgattagttgcagc	AA145188
98470	aattgcagccctacgatcagagctg	U09016
98471	tgcagccctacgatcagagctgaga	U09016
98472	agatattgcctacttgggcatcaca	U09016
98473	tgcctacttgggcatcacagatgtg	U09016
98474	cttgggcatcacagatgtgagggtt	U09016
98475	ggagcccaacaacacgggcgatggg	U09016
98476	atgtgaattctctgactgagggtgc	U09016
98477	tgaattctctgactgagggtgcttg	U09016
98478	tctcagccctccttgattctttagg	U09016
98479	tccttgattctttagggtactcctg	U09016
98480	caacattggttacccaatgcattct	U09016
98481	ttacccaatgcattctcttgtgaag	U09016
98482	agccctacgatcagagctgagagcc	U09016
98483	atcagagctgagagccctgagaaac	U09016
98484	cttctctctgagtgaaaaagttgga	U09016
98485	cctgtgctccgaattccagggctct	U09016
98486	cgaattccagggctctgtggccact	U09016
98487	cactcccaggaatgctgaggaaaac	U09016
98488	ggaaaactcggccatccagaaagtg	U09016
98489	ctcggccatccagaaagtggccaaa	U09016
98490	caacaatgtcctatctggaggcacc	M15501
98491	tcctatctggaggcaccaccatgta	M15501
98492	gagatgtctctctcttagcctacct	M15501
98493	gatgtctctctcttagcctacctta	M15501
98494	tctctctcttagcctacctatatt	M15501
98495	tcttagcctaccttatattcaggat	M15501
98496	tgaccgtattgtgcttcttggaatc	M15501
98497	accgtattgtgcttcttggaatcct	M15501
98498	cgtattgtgcttcttggaatcctct	M15501
98499	tattgtgcttcttggaatcctctga	M15501
98500	gcttcttggaatcctctgagccccc	M15501
98501	ccccatctctcatcagtcattgtac	M15501
98502	cctggtattgccgatcgtatgcaaa	M15501
98503	cccatctctcatcagtcattgtacg	M15501
98504	gtattgccgatcgtatgcaaaagga	M15501
98505	attgccgatcgtatgcaaaaggaaa	M15501
98506	cgtaaatactctgtctggattgggg	M15501
98507	taaatactctgtctggattgggggc	M15501
98508	ccgcaagtgcttctgagatgtctct	M15501
98509	ttctgagatgtctctctcttagcct	M15501
98510	ctgagatgtctctctcttagcctac	M15501
98511	tcatcgccccatgacaataagtcgt	W08897
98512	atgatcgccaccgcagaagaattct	W08897
98513	ctcgacctggaggcctggttcccag	W08897
98514	ttggtgtcctgttctaattgcacgg	W08897
98515	gtgtcctgttctaattgcacggatt	W08897
98516	tcctgttctaattgcacggattacc	W08897
98517	tctaattgcacggattaccaagctc	W08897
98518	aattgcacggattaccaagctcgcc	W08897
98519	tgcacggattaccaagctcgccgcc	W08897
98520	gattaccaagctcgccgcctgagaa	W08897
98521	taccaagctcgccgcctgagaatcc	W08897
98522	cgcctgagaatccgatatgggcaga	W08897
98523	atcgccaccgcagaagaattctacc	W08897
98524	gggatcccttaccacattgtgaata	W08897
98525	atcccttaccacattgtgaatatta	W08897
98526	ccttaccacattgtgaatattagct	W08897
98527	attagctcaggctccttgaatcacg	W08897
98528	agctcaggctccttgaatcacgctg	W08897
98529	tcaggctccttgaatcacgctgcca	W08897
98530	ttgaatcacgctgccagtaagaagc	W08897
98531	attgttctacagaaaccatgcccat	AA145160
98532	tgttctacagaaaccatgcccatca	AA145160
98533	gatgacaacaacgaccctggagagg	AA145160
98534	tgacaacaacgaccctggagaggac	AA145160
98535	ctgtctgtcctcaatcaggctatgg	AA145160
98536	gtctgtcctcaatcaggctatggca	AA145160

TABLE 1

SEQ ID NO	sequence	DBAxnID
13329	gcttctaaaacactgggtgctgtgg	M34148
13330	ggctcagctgtcattctaggcttca	M34148
13331	gctgtcattctaggcttcatctgtt	M34148
13332	ggcttcatctgttacctgtataaga	M34148
13333	aatcactgattggacttgcaaataa	M34148
13334	cactaccagaggtttgatgtgaaga	M34148
13335	acttttgcctttgtatcagaggcac	M34148
13336	gtatcagaggcacgggggctctcca	M34148
13337	agcctgatctacttccactgcagtg	M34148
13338	atctacttccactgcagtgccttga	M34148
13339	gccttgatctgtaaccaagtctctc	M34148
13340	atctgtaaccaagtctctcttgact	M34148
13341	ctgtgctctgtgacttgccctgcat	M34148
13342	cagcttgttctgctcaagctggaga	M74180
13343	gtgatcctgaaccatcacgtggccc	M74180
13344	ccacttgcctgctataccatgact	M74180
13345	tatacccatgactgctgggtcctac	M74180
13346	catgactgctgggtcctacagggac	M74180
13347	tgctgggtcctacagggacttatca	M74180
13348	cttatcatcccgaacagagtgtgtg	M74180
13349	atcccgaacagagtgtgtgcacggc	M74180
13350	tggccagctatcttcacacgggtgt	M74180
13351	gctatcttcacacgggtgtctgtgt	M74180
13352	tctgtgttcgtggactggattaaca	M74180
13353	tgcttttgagcccttagagatgtca	M74180
13354	ctgaaccatcacgtggccctgattt	M74180
13355	cataaagcggccttttctctctgtc	M74180
13356	catcacgtggccctgatttgcctgc	M74180
13357	tgcctgcctcctgaacagtatgtgg	M74180
13358	cctcctgaacagtatgtggtacctc	M74180
13359	tccatcggtacaagcaataacacag	M74180
13360	agcaataacacagtccttcatgtgg	M74180
13361	gtccttcatgtggcctcgatgaatg	M74180
13362	gagatatgcacccagggactggtgg	M74180
13363	gcatctgcagcacactctcaacaat	W53085
13364	atctgcagcacactctcaacaatga	W53085
13365	tcccctgaatgctcagcaatgctgt	W53085
13366	cccctgaatgctcagcaatgctgtg	W53085
13367	cctgaatgctcagcaatgctgtgca	W53085
13368	ctgaatgctcagcaatgctgtgcat	W53085
13369	aatgctcagcaatgctgtgcataag	W53085
13370	tgctcagcaatgctgtgcataaggg	W53085
13371	ctcagcaatgctgtgcataagggct	W53085
13372	tcagcaatgctgtgcataagggctg	W53085
13373	cagcaatgctgtgcataagggctgt	W53085
13374	tgaccatcgatgagacagctacacg	W53085
13375	ctgcagcacactctcaacaatgagc	W53085
13376	gcagcacactctcaacaatgagctc	W53085
13377	cagcacactctcaacaatgagctca	W53085
13378	agcacactctcaacaatgagctcat	W53085
13379	ggagaatgctcccctgaatgctcag	W53085
13380	aatgctcccctgaatgctcagcaat	W53085
13381	atgctcccctgaatgctcagcaatg	W53085
13382	ctcccctgaatgctcagcaatgctg	W53085
13383	aacagagtcaaatccacggagctct	J04766
13384	agagtcaaatccacggagctctgtg	J04766
13385	cgtgtctcacggtttgttgattgga	J04766
13386	aggccgagcaaaacctctgcttact	J04766
13387	agcaaaacctctgcttactaaagct	J04766
13388	gcttactaaagcttactgaatatgg	J04766
13389	aatcaaactgggacactacactgaa	J04766
13390	caaactgggacactacactgaacca	J04766
13391	acactacactgaaccacagcttcct	J04766
13392	ctacactgaaccacagcttcctgtc	J04766
13393	gtgacaatagaccatcactgctgtg	J04766
13394	cactgctgtgacctttgttgaaaat	J04766
13395	tccacggagctctgtgccgggcaac	J04766
13396	gagctctgtgccgggcaactggctg	J04766

SEQ ID NO	sequence	DBAxnID
55933	atcttgagcgatcattttcaatatg	
55934	aaaggactcatctgctgcatggaat	
55935	cctcctagactcattctgcaatgaa	
55936	caatgaagtccatcagcagctcaat	
55937	agtccatcagcagctcaatgacctc	
55938	tgacctcaaagcctgtgtgatgcaa	
55939	gatgcaacaggtcggggtgcaggaa	
55940	agactccctgctggctgtgaggaaa	
55941	gatcactgtgtacctgagagagaag	
55942	cctcaaagcctgtgtgatgcaacag	
55943	ctcaaagcctgtgtgatgcaacagg	
55944	tggtatctgaatccacttgtccttt	
55945	ggtatctgaatccacttgtcctttc	
55946	tcaaagcctgtgtgatgcaacaggt	
55947	tttcagcaatcttgagcgatcattt	
55948	ttcagcaatcttgagcgatcatttt	
55949	tcagcaatcttgagcgatcattttc	
55950	agcaatcttgagcgatcattttcaa	
55951	caatcttgagcgatcattttcaata	
55952	atcttgagcgatcattttcaatatg	
55953	ttggtatctgaatccacttgtcctt	
55954	cctcaaagcctgtgtgatgcaacag	
55955	ctcaaagcctgtgtgatgcaacagg	
55956	tggtatctgaatccacttgtccttt	
55957	ggtatctgaatccacttgtcctttc	
55958	tatttattattctgcttttaataat	
55959	tcaaagcctgtgtgatgcaacaggt	
55960	tttcagcaatcttgagcgatcattt	
55961	ttcagcaatcttgagcgatcatttt	
55962	tcagcaatcttgagcgatcattttc	
55963	agcaatcttgagcgatcattttcaa	
55964	caatcttgagcgatcattttcaata	
55965	atcttgagcgatcattttcaatatg	
55966	ttggtatctgaatccacttgtcctt	
55967	gtcgttgccagagccagggttatga	AA050915
55968	tcgttgccagagccagggttatgag	AA050915
55969	ctgcaaccgcaagatcaaggaccgg	AA050915
55970	gcaaccgcaagatcaaggaccggta	AA050915
55971	gatcaaggaccggtacctgctgaag	AA050915
55972	tcaaggaccggtacctgctgaaggc	AA050915
55973	caaggaccggtacctgctgaaggca	AA050915
55974	aggaccggtacctgctgaaggcact	AA050915
55975	ggaccggtacctgctgaaggcactg	AA050915
55976	accggtacctgctgaaggcactgga	AA050915
55977	ggtacctgctgaaggcactggacaa	AA050915
55978	cctgctgaaggcactggacaagtac	AA050915
55979	gttgccagagccagggttatgagct	AA050915
55980	ttgccagagccagggttatgagcta	AA050915
55981	gccagagccagggttatgagctatc	AA050915
55982	gccgatgctctccgtccaacctaag	AA050915
55983	gcgcaggctgcaaccgcaagatcaa	AA050915
55984	cgcaggctgcaaccgcaagatcaag	AA050915
55985	aggctgcaaccgcaagatcaaggac	AA050915
55986	gctgcaaccgcaagatcaaggaccg	AA050915
55987	tttgagttctgcagtgacttcaaga	X53599
55988	ttctgcagtgacttcaagaccattt	X53599
55989	aaagtctcttgtcaatccacaagaa	X53599
55990	caatccacaagaacaatgcaaagtt	X53599
55991	ttaagtccacccaataataagatca	X53599
55992	ccacccaataataagatcagaagat	X53599
55993	gaaattctaagccttccagtatata	X53599
55994	cttccagtatataccccttgtcatga	X53599
55995	gtatatacccttgtcatgagaaaag	X53599
55996	catggtgatccccaagagaactcaa	X53599
55997	gatccccaagagaactcaagcctta	X53599
55998	caagagaactcaagccttattcctc	X53599
55999	ttcaagaccatttggaagcgggaga	X53599
56000	actcaagccttattcctcacacact	X53599

SEQ ID NO	sequence	DBAxnID
98537	ctgtcctcaatcaggctatggcagt	AA145160
98538	gtcctcaatcaggctatggcagtta	AA145160
98539	cctcaatcaggctatggcagttatc	AA145160
98540	tcaatcaggctatggcagttatcaa	AA145160
98541	gagcccaaagtggtcacagatacag	AA145160
98542	agcccaaagtggtcacagatacaga	AA145160
98543	ttctacagaaaccatgcccatcaag	AA145160
98544	ctacagaaaccatgcccatcaagat	AA145160
98545	acagaaaccatgcccatcaagatta	AA145160
98546	aaaccatgcccatcaagattaatct	AA145160
98547	accatgcccatcaagattaatctaa	AA145160
98548	catgcccatcaagattaatctaata	AA145160
98549	tgcccatcaagattaatctaatagc	AA145160
98550	gtgatgacaacaacgaccctggaga	AA145160
98551	cgagcagctatccgaggggatgccc	AA153265
98552	gcagctatccgaggggatgcccggc	AA153265
98553	tacgacatcgccaagcaactgttag	AA153265
98554	gacatcgccaagcaactgttagccg	AA153265
98555	aagcaactgttagccgctggtgcag	AA153265
98556	caactgttagccgctggtgcagagg	AA153265
98557	ttagccgctggtgcagaggtgaaca	AA153265
98558	actaagggcctggatgatgacacac	AA153265
98559	gatgacacacctttgcatgatgccg	AA153265
98560	cctttgcatgatgccgccaacaacg	AA153265
98561	ttgcatgatgccgccaacaacgggc	AA153265
98562	catgatgccgccaacaacgggcact	AA153265
98563	atccgaggggatgcccggcgcatca	AA153265
98564	gccgccaacaacgggcactacaagg	AA153265
98565	cgcatcatggaactcatcagtgagg	AA153265
98566	aacgtcaaggactttgcaggctgga	AA153265
98567	gactttgcaggctggactgcactgc	AA153265
98568	tttgcaggctggactgcactgcacg	AA153265
98569	tggactgcactgcacgaggcgtgta	AA153265
98570	tgtaaccggggctattacgacatcg	AA153265
98571	tattacgacatcgccaagcaactgt	AA153265
98572	aagacctgccacagtttcatcatta	W13461
98573	acctgccacagtttcatcattaatg	W13461
98574	tatgactcaatcagtatggagacac	W13461
98575	ctggatctacccactgttcactcca	W13461
98576	gatctacccactgttcactccatca	W13461
98577	gaattgatggcttccctggaccagc	W13461
98578	ttgatggcttccctggaccagccga	W13461
98579	gcttccctggaccagccgacacaga	W13461
98580	tccctggaccagccgacacagactg	W13461
98581	gaccagccgacacagactgtggtga	W13461
98582	cagccgacacagactgtggtgatgc	W13461
98583	ccgacacagactgtggtgatgcacc	W13461
98584	cacagtttcatcattaatgaaaaga	W13461
98585	gacctttttccctgaggctgacaaag	W13461
98586	ttccctgaggctgacaaagttcgca	W13461
98587	gacaaagttcgcaccatgctagttc	W13461
98588	aaagttcgcaccatgctagttcgga	W13461
98589	gttcgcaccatgctagttcggaaga	W13461
98590	tacctttttacctacagcagtgtct	W13461
98591	gtctatgactcaatcagtatggaga	W13461
98592	tggatctacagaggacgaggaagat	AA145181
98593	ggagaaccctgacaagaatgttgaa	AA145181
98594	accctgcttgcaattggacaagcac	AA145181
98595	cctgcttgcaattggacaagcaccc	AA145181
98596	caattggacaagcaccctatggctg	AA145181
98597	attggacaagcaccctatggctgga	AA145181
98598	tggacaagcaccctatggctggatc	AA145181
98599	caagcaccctatggctggatcagca	AA145181
98600	agcaccctatggctggatcagcaca	AA145181
98601	ccctatggctggatcagcacacatg	AA145181
98602	ctggatcagcacacatggaacggat	AA145181
98603	ggatcagcacacatggaacggatca	AA145181
98604	agggtacaatctccaattaggcttg	AA145181

TABLE 1

SEQ ID NO	sequence	DBAxnID
13397	ggacctctggtttgcttcgagaagg	J04766
13398	cctctggtttgcttcgagaaggaca	J04766
13399	caaggagtcacttcttggggtcttg	J04766
13400	gtcacttcttggggtcttggctgtg	J04766
13401	cgccccaataagcctggtgtctacg	J04766
13402	tacgttcgtgtctcacggtttgttg	J04766
13403	caataactgcagcatcatgcaaagt	
13404	ctgcagcatcatgcaaagtgacatc	
13405	gattgacaatcgcccatctaaactt	
13406	cccatctaaacttgccttgaacaca	
13407	tgccttgaacacaacgaaatacaat	
13408	cttatctaaaactagactagacaat	
13409	ctgtgatcaatcattcatctgtatt	
13410	tcaatcattcatctgtatttgtggg	
13411	attcatctgtatttgtgggaagaga	
13412	attggacaaattccctcattgactc	
13413	caaattccctcattgactctccagt	
13414	ccctcattgactctccagtgagtgt	
13415	taatcttctggaatccctcaacagg	
13416	ttacttacagcacacaggcagaggt	
13417	agtatactggttctgttatggtatg	
13418	ttattatttcgtcatggacagaaaa	
13419	acagagctgccagaattccagctta	
13420	gaattccagcttaacccttctgaag	
13421	cagcttaacccttctgaagatagat	
13422	cgtggttccttcagacagttgctgg	
13423	ctcccttgaaccggcgcatctactg	W53117
13424	tgaaccggcgcatctactgccaccg	W53117
13425	gcggcaagaccttctactggcgcga	W53117
13426	ccttctactggcgcgacacctggtg	W53117
13427	tctactggcgcgacacctggtggcc	W53117
13428	gcgacacctggtggccaccgcaaga	W53117
13429	acacctggtggccaccgcaagacac	W53117
13430	ggtggccaccgcaagacacactctg	W53117
13431	aagacacactctggcgcgcgacctt	W53117
13432	acacactctggcgcgcgacctttcg	W53117
13433	gcgcgacctttcgcctgctgggaat	W53117
13434	ttcgcctgctgggaatgtggcaagg	W53117
13435	ggcgcatctactgccaccggaaagc	W53117
13436	gcatctactgccaccggaaagccac	W53117
13437	gtccctgagtgcggaaggcattccg	W53117
13438	ggaaggcattccggcgtaaggagca	W53117
13439	cattccggcgtaaggagcacctgcg	W53117
13440	agaagccgcacgcgtgctgcgaatg	W53117
13441	cgcacgcgtgctgcgaatgcggcaa	W53117
13442	aatgcggcaagaccttctactggcg	W53117
13443	ctgtaataattcctacttctgcatt	U10091
13444	tgtaataattcctacttctgcattt	U10091
13445	atgggcacccttgcataaagcctt	U10091
13446	gggcacccttgcataaagccttca	U10091
13447	ggcacccttgcataaagccttcag	U10091
13448	gcacccttgcataaagccttcaga	U10091
13449	acccttgcataaagccttcagaat	U10091
13450	ccctttgcataaagccttcagaatt	U10091
13451	cctttgcataaagccttcagaattt	U10091
13452	tttgcataaagccttcagaattttg	U10091
13453	ttgcataaagccttcagaattttgt	U10091
13454	tgcataaagccttcagaattttgtt	U10091
13455	taataattcctacttctgcatttgt	U10091
13456	ataattcctacttctgcatttgtgg	U10091
13457	cattggactgttctctggtatctat	U10091
13458	attggactgttctctggtatctatt	U10091
13459	ctgttctctggtatctattttgaca	U10091
13460	tgttctctggtatctattttgacag	U10091
13461	gttctctggtatctattttgacaga	U10091
13462	gatgggcacccttgcataaagcct	U10091
13463	gcctgtatggtcatctctatcattg	W53142
13464	atggtcatctctatcattgttcata	W53142

SEQ ID NO	sequence	DBAxnID
56001	atggctcaggcatccgtcagcaaac	X53599
56002	caggcatccgtcagcaaactgacat	X53599
56003	gtggccaccaactaagatgaaaaca	X53599
56004	gctcctgcagacacaagggccaccg	X53599
56005	gcagacacaagggccaccggggagt	X53599
56006	cttctgaggccatctgcagaaagtc	X53599
56007	tctgcagaaagtcccctgtgccttc	X53599
56008	gccagccatgcgctcagctggcgac	AA050982
56009	ccagccatgcgctcagctggcgact	AA050982
56010	ctcagctggcgactgtcttaccctc	AA050982
56011	tcagctggcgactgtcttaccctcc	AA050982
56012	cgcgtcccatcacgtgagtctgaga	AA050982
56013	agatcgtaggaggcttcttgagaag	AA050982
56014	atcgtaggaggcttcttgagaagac	AA050982
56015	tgacttgtgcgtagcacccgagtag	AA050982
56016	gacttgtgcgtagcacccgagtagt	AA050982
56017	cttgtgcgtagcacccgagtagttt	AA050982
56018	ttgtgcgtagcacccgagtagttta	AA050982
56019	tgtgcgtagcacccgagtagtttac	AA050982
56020	cagccatgcgctcagctggcgactg	AA050982
56021	agccatgcgctcagctggcgactgt	AA050982
56022	ccatgcgctcagctggcgactgtct	AA050982
56023	catgcgctcagctggcgactgtctt	AA050982
56024	atgcgctcagctggcgactgtctta	AA050982
56025	tgcgctcagctggcgactgtcttac	AA050982
56026	cgctcagctggcgactgtcttaccc	AA050982
56027	gctcagctggcgactgtcttaccct	AA050982
56028	agtcacaactgggtaagagtgtcaa	V00789
56029	aggacagcacttggtacctatgata	V00789
56030	cagaactacataacacttcaccctt	V00789
56031	ttcacccttctacaacacttagat	V00789
56032	ttctacaacacttagatttttcagc	V00789
56033	ttcttgaaccctgaagaaagtgata	V00789
56034	cttgaaccctgaagaaagtgatata	V00789
56035	gccactgttccaagaaaacaatcac	V00789
56036	cactgttccaagaaaacaatcacgt	V00789
56037	tccaagaaaacaatcacgtattatt	V00789
56038	tattattagtcagtctttagatcag	V00789
56039	ttattagtcagtctttagatcaggt	V00789
56040	gacagcacttggtacctatgataga	V00789
56041	gcacttggtacctatgatagacaaa	V00789
56042	aacactgtgcttatctgtttcagtt	V00789
56043	cactgtgcttatctgtttcagttta	V00789
56044	ctgtgcttatctgtttcagtttaaa	V00789
56045	gtgcttatctgtttcagtttaaaag	V00789
56046	ttatctgtttcagtttaaaagacag	V00789
56047	gacagaactacataacacttcaccc	V00789
56048	actacagcgacaaattctgataacc	X55499
56049	gacaaattctgataacccagggcag	X55499
56050	acccccttgcttcagtggctgaactc	X55499
56051	cttgcttcagtggctgaactcggtc	X55499
56052	tttctaggctcaaaactgaaaagct	X55499
56053	aagctgattacccatgtaatttatc	X55499
56054	gctgattacccatgtaatttatctg	X55499
56055	attacccatgtaatttatctggtct	X55499
56056	tacccatgtaatttatctggtctta	X55499
56057	taatttatctggtcttaaatgataa	X55499
56058	cctcacttccccagaaatggctctt	X55499
56059	tcacttccccagaaatggctctttt	X55499
56060	caaattctgataacccagggcagta	X55499
56061	aattctgataacccagggcagtaga	X55499
56062	ctgataacccagggcagtagatctc	X55499
56063	gataacccagggcagtagatctcct	X55499
56064	ggcagtagatctccttccaggccca	X55499
56065	ccttccaggcccagggcttgtgact	X55499
56066	ttccaggcccagggcttgtgacttg	X55499
56067	aggcccagggcttgtgacttgaaca	X55499
56068	gtgatttctgttcccagcaagtgtc	AA050934

SEQ ID NO	sequence	DBAxnID
98605	ggtacaatctccaattaggcttgtg	AA145181
98606	tacaatctccaattaggcttgtgtc	AA145181
98607	caatctccaattaggcttgtgtcgt	AA145181
98608	ctccaattaggcttgtgtcgtcacc	AA145181
98609	gcttgtgtcgtcaccctgcttgcaa	AA145181
98610	ttgtgtcgtcaccctgcttgcaatt	AA145181
98611	gtgtcgtcaccctgcttgcaattgg	AA145181
98612	ccaatttccatttcttcaaatatca	AA145312
98613	atttcttcaaatatcagtgtgagtc	AA145312
98614	tctgcaacagcgtccctcacagtgc	AA145312
98615	ctcacagtgctccctctggtggaag	AA145312
98616	gtgctccctctggtggaagaaccac	AA145312
98617	aatacgagcagtgacgtgagcttgc	AA145312
98618	cacggaagcgtctcgtctcagtcag	AA145312
98619	agcgtctcgtctcagtcagtccaaa	AA145312
98620	gtctcgtctcagtcagtccaaatgt	AA145312
98621	cagtcagtccaaatgtctgcctcta	AA145312
98622	tcagtccaaatgtctgcctctaagc	AA145312
98623	gtccaaatgtctgcctctaagcagg	AA145312
98624	tcttcaaatatcagtgtgagtcgct	AA145312
98625	agtcgctccagaaacgtgtacactc	AA145312
98626	cgctccagaaacgtgtacacttctg	AA145312
98627	gtgtacactcttgaaatccgaaatg	AA145312
98628	tacactcttgaaatccgaaatgcgg	AA145312
98629	gaaatccgaaatgcggctgtaagtg	AA145312
98630	atccgaaatgcggctgtaagtgaca	AA145312
98631	gctaagaatttccacggccagtgct	AA145312
98632	cgctaagcagccagatttagatcat	AA145418
98633	agatttagatcatgccttggaacgc	AA145418
98634	ctctggacaaactgtcctgtgtgga	AA145418
98635	tattcatgaccgtatcaagagggag	AA145418
98636	tcatgaccgtatcaagagggagtat	AA145418
98637	ctatctagggcctctgcaggtggca	AA145418
98638	tctagggcctctgcaggtggcatac	AA145418
98639	gcctctgcaggtggcataccgggaa	AA145418
98640	catcttaaactcagttcgcgccaca	AA145418
98641	cttaaactcagttcgcgccacagac	AA145418
98642	agttcgcgccacagacaccctcgat	AA145418
98643	agacaccctcgatagggtgcttgga	AA145418
98644	tttagatcatgccttggaacgcctt	AA145418
98645	tcatgccttggaacgccttcagcgc	AA145418
98646	tgccttggaacgccttcagcgcgaa	AA145418
98647	cttggaacgccttcagcgcgaagat	AA145418
98648	agtgaaactcgatcctgactctgga	AA145418
98649	actcgatcctgactctggacaaact	AA145418
98650	cgatcctgactctggacaaactgtc	AA145418
98651	tcctgactctggacaaactgtcctg	AA145418
98652	tttatcggtatggagtctgcgggga	M12347
98653	taccctggtatcgctgaccgcatgc	M12347
98654	tctcctcaggacgacaatcgacaat	M12347
98655	cctcaggacgacaatcgacaatcgt	M12347
98656	gacaatcgacaatcgtgctgtggtt	M12347
98657	ccactgcagccggcgcctgtttttg	M12347
98658	ctgcagccggcgcctgtttttgacg	M12347
98659	gcgcctgtttttgacgtgtacatag	M12347
98660	gattgactcgttttacctcattttg	M12347
98661	aagcattaaagccagccattctgtt	M12347
98662	cattaaagccagccattctgttttg	M12347
98663	taaagccagccattctgttttgctc	M12347
98664	cctggtatcgctgaccgcatgcaga	M12347
98665	gccagccattctgttttgctccaat	M12347
98666	ggtatcgctgaccgcatgcagaagg	M12347
98667	atcaccaagcaggagtacgacgagg	M12347
98668	caccgcaaatgcttctaggcgcacc	M12347
98669	cgcaaatgcttctaggcgcaccgca	M12347
98670	aaatgcttctaggcgcaccgcatct	M12347
98671	ttctaggcgcaccgcatctgcgttc	M12347
98672	ctctctcctcaggacgacaatcgac	M12347

TABLE 1

SEQ ID NO	sequence	DBAxnID
13465	tattcgtatcttatgtccatctgca	W53142
13466	tcgtatcttatgtccatctgcacca	W53142
13467	ttaatatccaatgcaactaatccat	W53142
13468	atatccaatgcaactaatccatata	W53142
13469	tccaatgcaactaatccatatatta	W53142
13470	taattatcttgtggctatgatctaa	W53142
13471	ttatcttgtggctatgatctaaaac	W53142
13472	caaggagcctaccaatatgcgtttg	W53142
13473	ggagcctaccaatatgcgtttgtat	W53142
13474	gcctaccaatatgcgtttgtatata	W53142
13475	gtcatctctatcattgttcataata	W53142
13476	taccaatatgcgtttgtatatatca	W53142
13477	atctctatcattgttcataatacct	W53142
13478	attgttcataatacctacacctctt	W53142
13479	gttcataatacctacacctcttaca	W53142
13480	cataatacctacacctcttacaata	W53142
13481	tacacctcttacaataagttgcagc	W53142
13482	cagcttatcaattactatcggtata	W53142
13483	cttatcaattactatcggtataaat	W53142
13484	cctgttcatttctactgcatctaat	W53146
13485	tgttcatttctactgcatctaatgt	W53146
13486	ataataagctgtaccatgtttataa	W53146
13487	taagctgtaccatgtttataatgat	W53146
13488	tataatgatctgctgctcgtatttg	W53146
13489	taatgatctgctgctcgtatttgaa	W53146
13490	atgatctgctgctcgtatttgaact	W53146
13491	gatctgctgctcgtatttgaactcc	W53146
13492	tctgctgctcgtatttgaactcctg	W53146
13493	gctcgtatttgaactcctgaaggac	W53146
13494	caatcgcaccgtcaaattgtaaagt	W53146
13495	atcgcaccgtcaaattgtaaagtct	W53146
13496	ttcatttctactgcatctaatgtcg	W53146
13497	catttctactgcatctaatgtcgct	W53146
13498	tctactgcatctaatgtcgctatgt	W53146
13499	tactgcatctaatgtcgctatgtaa	W53146
13500	ctgcatctaatgtcgctatgtaacc	W53146
13501	gcatctaatgtcgctatgtaaccgc	W53146
13502	atctaatgtcgctatgtaaccgccc	W53146
13503	ctaatgtcgctatgtaaccgccctg	W53146
13504	agaacatagacttctttggaataga	
13505	aacatagacttctttggaatagaga	
13506	ttctctggtatctaacttgcagaac	
13507	tctctggtatctaacttgcagaaca	
13508	ctctggtatctaacttgcagaacag	
13509	gtatctaacttgcagaacagaggcc	
13510	acatagacttctttggaatagagac	
13511	aatagagacacagcagcaagagcat	
13512	tagagacacagcagcaagagcattg	
13513	gacacagcagcaagagcattgggac	
13514	actgttctctggtatctaacttgca	
13515	ctgttctctggtatctaacttgcag	
13516	tgttctctggtatctaacttgcaga	
13517	gttctctggtatctaacttgcagaa	
13518	agaacatagacttctttggaataga	
13519	aacatagacttctttggaatagaga	
13520	ttctctggtatctaacttgcagaac	
13521	tctctggtatctaacttgcagaaca	
13522	ctctggtatctaacttgcagaacag	
13523	tctggtatctaacttgcagaacaga	
13524	gtatctaacttgcagaacagaggcc	
13525	acatagacttctttggaatagagac	
13526	aatagagacacagcagcaagagcat	
13527	tagagacacagcagcaagagcattg	
13528	gacacagcagcaagagcattgggac	
13529	actgttctctggtatctaacttgca	
13530	ctgttctctggtatctaacttgcag	
13531	tgttctctggtatctaacttgcaga	
13532	gttctctggtatctaacttgcagaa	

SEQ ID NO	sequence	DBAxnID
56069	tctgttcccagcaagtgtctcctcc	AA050934
56070	gtctaacaggttcacagcaaggcca	AA050934
56071	taacaggttcacagcaaggccactg	AA050934
56072	caggttcacagcaaggccactggta	AA050934
56073	gttcacagcaaggccactggtacag	AA050934
56074	cacagcaaggccactggtacagacg	AA050934
56075	agcaaggccactggtacagacgatt	AA050934
56076	agcaacatgctttgcctatggacag	AA050934
56077	aacatgctttgcctatggacagaca	AA050934
56078	ctttgcctatggacagacaggcagt	AA050934
56079	tcagaacgcatctaaagggatctac	AA050934
56080	gttcccagcaagtgtctcctcctgg	AA050934
56081	agcaagtgtctcctcctggtgcatg	AA050934
56082	aagtgtctcctcctggtgcatgaac	AA050934
56083	tgtctcctcctggtgcatgaaccca	AA050934
56084	ctcctggtgcatgaacccaagttaa	AA050934
56085	caagctttctgctttgactttgcat	AA050934
56086	tttgactttgcatttgatgagacag	AA050934
56087	acagcttccaatgaagttgtctaac	AA050934
56088	gatacacatcatgtcgtcttcacac	X04480
56089	caccacagctggaccagagaccctt	X04480
56090	actgaagcctacaaaagcagcccgc	X04480
56091	gcctacaaaagcagcccgctctatc	X04480
56092	ccacactgacatgcccaagactcag	X04480
56093	tgacatgcccaagactcagaaggaa	X04480
56094	gccacatcaccgcaggatcctttgc	X04480
56095	tcaccgcaggatcctttgctgcttg	X04480
56096	caggatcctttgctgcttgagcaac	X04480
56097	ctgcttgagcaacctgcaaaacatc	X04480
56098	gagcaacctgcaaaacatcgaaaca	X04480
56099	tgggcatttcccccaatgaaatata	X04480
56100	agctggaccagagacccttgcggg	X04480
56101	ttacttcaacaagcccacaggctat	X04480
56102	caacaagcccacaggctatggctcc	X04480
56103	gcccacaggctatggctccagcatt	X04480
56104	aggctatggctccagcattcggagg	X04480
56105	cagcattcggagggcacctcagaca	X04480
56106	ggcacctcagacaggcattgtggat	X04480
56107	tgagtgttgcttccggagctgtgat	X04480
56108	ctcctgttccagatcatcccacggg	X04748
56109	cctgttccagatcatcccacgggga	X04748
56110	gatcatcccacggggagcaggtccc	X04748
56111	atcatcccacggggagcaggtccca	X04748
56112	tcatcccacggggagcaggtcccag	X04748
56113	catcccacggggagcaggtcccagg	X04748
56114	ccacggggagcaggtcccaggtgct	X04748
56115	tcgccccataggcttccatctaagc	X04748
56116	ccataggcttccatctaagccccag	X04748
56117	gcttccatctaagccccagttttgg	X04748
56118	catctaagccccagttttggtatgt	X04748
56119	tctaagccccagttttggtatgtct	X04748
56120	ctgttccagatcatcccacggggag	X04748
56121	tgttccagatcatcccacggggagc	X04748
56122	gttccagatcatcccacggggagca	X04748
56123	ttccagatcatcccacggggagcag	X04748
56124	tccagatcatcccacggggagcagg	X04748
56125	ccagatcatcccacggggagcaggt	X04748
56126	cagatcatcccacggggagcaggtc	X04748
56127	agatcatcccacggggagcaggtcc	X04748
56128	agctgcatccgcagtcacggagccc	AA051123
56129	atccgcagtcacggagcccctcaag	AA051123
56130	ggctctcacgggagagattaagatc	AA051123
56131	gagattaagatcacccacggggaat	AA051123
56132	gattaagatcacccacggggaatat	AA051123
56133	ttaagatcacccacggggaatattg	AA051123
56134	taagatcacccacggggaatattgg	AA051123
56135	atattgggacgtactgctgggccct	AA051123
56136	tattgggacgtactgctgggccctg	AA051123

SEQ ID NO	sequence	DBAxnID
98673	ggaagaacctactgcggctgcagac	AA145447
98674	agaacctactgcggctgcagacctg	AA145447
98675	agctgcacctggaagttaaagccta	AA145447
98676	gcctaccaacggcaagcttaagaag	AA145447
98677	cgaagaacaagcccacaaccaactg	AA145447
98678	acaagcccacaaccaactgttccag	AA145447
98679	caagcccacaaccaactgttccagt	AA145447
98680	caaccaactgttccagttccgcaag	AA145447
98681	caactgttccagttccgcaaggtca	AA145447
98682	tccagttccgcaaggtcaacaagaa	AA145447
98683	ttccgcaaggtcaacaagaactcta	AA145447
98684	gtcaacaagaactctattaagccga	AA145447
98685	aacctactgcggctgcagacctggt	AA145447
98686	ctactgcggctgcagacctggtgga	AA145447
98687	tactgcggctgcagacctggtggac	AA145447
98688	ctgcggctgcagacctggtggacaa	AA145447
98689	tgcggctgcagacctggtggacaag	AA145447
98690	gacaagctgcacctggaagttaaag	AA145447
98691	acaagctgcacctggaagttaaagc	AA145447
98692	caagctgcacctggaagttaaagcc	AA145447
98693	tttagtccatggccaggcaagggtt	AA145449
98694	ggttccttcctgaacgtctgcttag	AA145449
98695	gccatctatgaccagagatctcttc	AA145449
98696	atctatgaccagagatctcttcccc	AA145449
98697	cagagatctcttccccatagagtta	AA145449
98698	agatctcttccccatagagttacag	AA145449
98699	tctcttccccatagagttacaggcg	AA145449
98700	tccccatctctccagggtagcaatt	AA145449
98701	ccatctctccagggtagcaatttgg	AA145449
98702	tctctccagggtagcaatttgggac	AA145449
98703	gcataccccatttcctgaaagtgag	AA145449
98704	cccatttcctgaaagtgaggtatca	AA145449
98705	tccttcctgaacgtctgcttagtca	AA145449
98706	ctgaacgtctgcttagtcaccatct	AA145449
98707	gtctgcttagtcaccatctcattag	AA145449
98708	ttagtcaccatctcattaggactgt	AA145449
98709	gtcaccatctcattaggactgtgca	AA145449
98710	accatctcattaggactgtgcatta	AA145449
98711	tgcattacaacggccatctatgacc	AA145449
98712	attacaacggccatctatgaccaga	AA145449
98713	gcagtgttcctgcttgggctgattg	AA154371
98714	gtgttcctgcttgggctgattgtct	AA154371
98715	cctggcaatgaggcctcaagagaga	AA154371
98716	gagagtctccattctcaaccctagt	AA154371
98717	agtctccattctcaaccctagtaag	AA154371
98718	ctccattctcaaccctagtaagatc	AA154371
98719	cattctcaaccctagtaagatccta	AA154371
98720	tctcaaccctagtaagatcctaatg	AA154371
98721	tcccccagagcctgaagaagtgtga	AA154371
98722	aaaggatgctggctcttcagtctgt	AA154371
98723	ctcttcagtctgtgagatgtggtca	AA154371
98724	ttcagtctgtgagatgtggtcatgg	AA154371
98725	ttcctgcttgggctgattgtcttcc	AA154371
98726	ctgcttgggctgattgtcttcctgg	AA154371
98727	gttgttatccatctcaaggctcaga	AA154371
98728	gttatccatctcaaggctcagaaag	AA154371
98729	atccatctcaaggctcagaaagcat	AA154371
98730	catctcaaggctcagaaagcatctg	AA154371
98731	tctgtggagactcagcctggcaatg	AA154371
98732	gagactcagcctggcaatgaggcct	AA154371
98733	tgggtccttaaacacctgcacgcat	AA168446
98734	cttaaacacctgcacgcatcttcct	AA168446
98735	agaaccctggtctacggcagaatgt	AA168446
98736	accctggtctacggcagaatgtgtt	AA168446
98737	gtctacggcagaatgtgttgtgtgg	AA168446
98738	gtggtgccattacaccccagcagat	AA168446
98739	gtgccattacaccccagcagatagc	AA168446
98740	ttacaccccagcagatagctgtgat	AA168446

TABLE 1

SEQ ID NO	sequence	DBAxnID
13533	agaacatagacttctttggaataga	
13534	aacatagacttctttggaatagaga	
13535	ttctctggtatctaacttgcagaac	
13536	tctctggtatctaacttgcagaaca	
13537	ctctggtatctaacttgcagaacag	
13538	tctggtatctaacttgcagaacaga	
13539	gtatctaacttgcagaacagaggcc	
13540	acatagacttctttggaatagagac	
13541	aatagagacacagcagcaagagcat	
13542	tagagacacagcagcaagagcattg	
13543	gacacagcagcaagagcattgggac	
13544	actgttctctggtatctaacttgca	
13545	ctgttctctggtatctaacttgcag	
13546	tgttctctggtatctaacttgcaga	
13547	gttctctggtatctaacttgcagaa	
13548	cctcacagcacacaggtagaggttt	U10094
13549	cacagcacacaggtagaggttttga	U10094
13550	gagactgaacagacctactctggtc	U10094
13551	agactgaacagacctactctggtcc	U10094
13552	tgaacagacctactctggtccccca	U10094
13553	tactctggtcccccaaagcttatct	U10094
13554	actctggtcccccaaagcttatctg	U10094
13555	ctggtcccccaaagcttatctgatt	U10094
13556	tggtcccccaaagcttatctgattt	U10094
13557	tcccccaaagcttatctgatttatt	U10094
13558	ccccaaagcttatctgatttatttg	U10094
13559	cccaaagcttatctgatttatttgt	U10094
13560	ttccttcagaacctggctccttcag	U10094
13561	ccttcagaacctggctccttcagac	U10094
13562	ttcagaacctggctccttcagacat	U10094
13563	cagaacctggctccttcagacattt	U10094
13564	agaacctggctccttcagacatttc	U10094
13565	gaacctggctccttcagacatttcc	U10094
13566	acctggctccttcagacatttcctg	U10094
13567	cctggctccttcagacatttcctgg	U10094
13568	cctctactgcaggatctactccttg	W53059
13569	caggatctactccttggtgaggact	W53059
13570	cattgtcctgagtgtcttcattgcc	W53059
13571	tgtcctgagtgtcttcattgcctgc	W53059
13572	gagtgtcttcattgcctgctgggcc	W53059
13573	tgtcttcattgcctgctgggcccct	W53059
13574	tctcttcatcctactacttttagat	W53059
13575	cttcatcctactactttagatgtg	W53059
13576	gaagacctgtgacatcctgtacaaa	W53059
13577	ctgtgacatcctgtacaaagcagag	W53059
13578	tgacatcctgtacaaagcagagtac	W53059
13579	catcctgtacaaagcagagtacttc	W53059
13580	gatctactccttggtgaggactcga	W53059
13581	ctactccttggtgaggactcgaagc	W53059
13582	gaccttccgcaagaacatctccaag	W53059
13583	cttccgcaagaacatctccaaggcc	W53059
13584	caaggccagccgcagttccgagaag	W53059
13585	cagccgcagttccgagaagtctctg	W53059
13586	cgagaagtctctggccttgctgaag	W53059
13587	gatcattgtcctgagtgtcttcatt	W53059
13588	tgccttcttggccatcgcagtccca	M28489
13589	catcgcagtcccaggaggaacaacg	M28489
13590	aaccactttctgctagagcaagggga	M28489
13591	tttctgctagagcaagggaccccac	M28489
13592	ccctgtcagctcttggctccaggca	M28489
13593	cagctcttggctccaggcaccagca	M28489
13594	gtctgccactagacagagttcacag	M28489
13595	cactagacagagttcacaggagacc	M28489
13596	ttttcatttcctcctcagctggtaa	M28489
13597	tttcctcctcagctggtaactcagg	M28489
13598	actcagggttcatctgtccaaggcc	M28489
13599	ggttcatctgtccaaggcctttcta	M28489
13600	gagtcacatgtgtggccgagactcc	M28489

SEQ ID NO	sequence	DBAxnID
56137	ggacgtactgctgggccctggacgc	AA051123
56138	gacgtactgctgggccctggacgca	AA051123
56139	cgtactgctgggccctggacgcaaa	AA051123
56140	tccgcagtcacggagcccctcaagg	AA051123
56141	ccgcagtcacggagcccctcaagga	AA051123
56142	gcagtcacggagcccctcaaggact	AA051123
56143	cagtcacggagcccctcaaggactc	AA051123
56144	agtcacggagcccctcaaggactct	AA051123
56145	gtcacggagcccctcaaggactctg	AA051123
56146	agcgggctctcacgggagagattaa	AA051123
56147	cgggctctcacgggagagattaaga	AA051123
56148	tccagaccgtgggccatgtggtcaa	U00978
56149	ccgtgggccatgtggtcaaagccct	U00978
56150	gttccatccaggataaaggctccat	U00978
56151	gctccattcagaagtttgtgcccta	U00978
56152	agtttgtgccctacctcatagcagg	U00978
56153	tgccctacctcatagcagggatcca	U00978
56154	acctcatagcagggatccagcatgg	U00978
56155	ggatccagcatggctgccaggatat	U00978
56156	ctgtcctgcgatccatgatgtactc	U00978
56157	ggaccatgtcggcccagattgaggg	U00978
56158	tgcacggcctacactcttacgaaaa	U00978
56159	gcctacactcttacgaaaagcggct	U00978
56160	tggtcaaagccctggcacttggagc	U00978
56161	ctcttacgaaaagcggctgtactga	U00978
56162	aagccctggcacttggagcctctac	U00978
56163	tggcacttggagcctctacagtaat	U00978
56164	ttggagcctctacagtaatgatggg	U00978
56165	ccacggaggcgcctggtgaatactt	U00978
56166	gcattggttctctggacgccatgga	U00978
56167	tcgcacaaggtgtctccggttccat	U00978
56168	tctccggttccatccaggataaagg	U00978
56169	tggccctgtcagctgtaaagccagg	X76291
56170	ctgtaaagccaggagaccgggtgct	X76291
56171	ccacatttgccagccatgtgcaacc	X76291
56172	gccatgtgcaaccaggccaatatgt	X76291
56173	tgcaaccaggccaatatgtgctggt	X76291
56174	aatatgtgctggtatcaggggtacc	X76291
56175	tccagcctgctcgggtggcagctgt	X76291
56176	cctatgctcctctcacaaggcatgg	X76291
56177	atgtggtggcctcctgctttgcagc	X76291
56178	tgcgactgtttcccagtttggcatg	X76291
56179	gctggaccccaagtgagggtgttca	X76291
56180	accctcagatgctctaccgcctggg	X76291
56181	ccaccttcagtgatgtgcttatttt	X76291
56182	atgtgcttatttttcctggaccgcga	X76291
56183	accgcgagccaaaccggctgagagc	X76291
56184	agccaaaccggctgagagctttcca	X76291
56185	accggctgagagctttccaggtcat	X76291
56186	aggtcatcgagactcaggatcctcc	X76291
56187	tgctcttcattgcggacaatcatac	X76291
56188	atcatacagaaccagcagcccactt	X76291
56189	aaatcgtatgcggctatctattcca	AA051182
56190	gcggctatctattccagttgtctct	AA051182
56191	tgctcagtgggacctgtacagggat	AA051182
56192	gaatttcagccaccttgtgttcctg	AA051182
56193	cctgggtcttgctgtctctaagcca	AA051182
56194	gggtcttgctgtctctaagccattc	AA051182
56195	ctctaagccattcctggtgacattt	AA051182
56196	gccattcctggtgacatttctggag	AA051182
56197	attcctggtgacatttctggagcaa	AA051182
56198	gcaaatacaagggccttgggacatg	AA051182
56199	aatacaagggccttgggacatgaag	AA051182
56200	acaagggccttgggacatgaagaga	AA051182
56201	gctatctattccagttgtctctgac	AA051182
56202	tattccagttgtctctgacaagaag	AA051182
56203	agttgtctctgacaagaaggaaatg	AA051182
56204	ggaaatgttgtccttctgggatgta	AA051182

SEQ ID NO	sequence	DBAxnID
98741	caccccagcagatagctgtgatgac	AA168446
98742	agattcgcaaggccatgactaagga	AA168446
98743	ttcgcaaggccatgactaaggaggc	AA168446
98744	accagatggcccgtacaggtggcac	AA168446
98745	cacctgcacgcatcttcctggacgt	AA168446
98746	cacgcatcttcctggacgtgggaaa	AA168446
98747	gcatcttcctggacgtgggaaatac	AA168446
98748	ggacgcgaatctctaacctgaaaga	AA168446
98749	cgcgaatctctaacctgaaagatgc	AA168446
98750	gaatctctaacctgaaagatgccaa	AA168446
98751	tctctaacctgaaagatgccaagaa	AA168446
98752	aagatgccaagaaccctggtctacg	AA168446
98753	tccataaagcccatcctgcaggtca	AA145487
98754	aagcccatcctgcaggtcattaaca	AA145487
98755	gaacacgctttcctcggtccagctt	AA145487
98756	cacgctttcctcggtccagcttggc	AA145487
98757	ccagcaagctggaccaccttggtga	AA145487
98758	gcaagctggaccaccttggtgaagg	AA145487
98759	agctggaccaccttggtgaaggaag	AA145487
98760	tggaccaccttggtgaaggaaggca	AA145487
98761	attgtgtctgcaaggtccagaggtt	AA145487
98762	ggttcatggtcacaaccctgaagga	AA145487
98763	tcatggtcacaaccctgaaggacgg	AA145487
98764	tggtcacaaccctgaaggacggaag	AA145487
98765	cccatcctgcaggtcattaacatcc	AA145487
98766	caggtcattaacatccgtcccattt	AA145487
98767	gtcattaacatccgtcccatttcta	AA145487
98768	aggtcacccggtaccgactgctcat	AA145487
98769	tcacccggtaccgactgctcatgag	AA145487
98770	cccggtaccgactgctcatgagtga	AA145487
98771	ggtaccgactgctcatgagtgatgg	AA145487
98772	gactgctcatgagtgatggttgaac	AA145487
98773	tcgagaaacaaaccctcatcaccca	AA145515
98774	cccaccagcttggattgcatcagct	AA145515
98775	agctaggttacagcctggggacaca	AA145515
98776	gttacagcctggggacacagccaag	AA145515
98777	acagcctggggacacagccaaggct	AA145515
98778	agccaaggctgtggtggcacaagct	AA145515
98779	caaggctgtggtggcacaagctgtc	AA145515
98780	acaagctgtccgtcatctcccgcag	AA145515
98781	agctgtccgtcatctcccgcagtct	AA145515
98782	tcatctcccgcagtctgttaggatt	AA145515
98783	catcagagcagcagagctagaaaca	AA145515
98784	aacagacattcgagcaaagaagcgt	AA145515
98785	accagcttggattgcatcagctcgc	AA145515
98786	ttggattgcatcagctcgcctggaa	AA145515
98787	gattgcatcagctcgcctggaagaa	AA145515
98788	tgcatcagctcgcctggaagaagtc	AA145515
98789	atcagctcgcctggaagaagtcact	AA145515
98790	agagatgtgccccaagagtgaagat	AA145515
98791	gatgtgccccaagagtgaagatgtc	AA145515
98792	agcagctaggttacagcctggggac	AA145515
98793	gaattatgtgcaccggatcggcaga	W13878
98794	attatgtgcaccggatcggcagagt	W13878
98795	ataacactagactcaaggaagatgg	W13878
98796	taacactagactcaaggaagatggc	W13878
98797	atggcggctgtactatctggtacaa	W13878
98798	aaatgcagctactttccgagataga	W13878
98799	aatgcagctactttccgagatagaa	W13878
98800	atgcagctactttccgagatagaag	W13878
98801	tgcagctactttccgagatagaaga	W13878
98802	gcagctactttccgagatagaagag	W13878
98803	cagctactttccgagatagaagagc	W13878
98804	agctactttccgagatagaagagca	W13878
98805	ttatgtgcaccggatcggcagagtg	W13878
98806	gctactttccgagatagaagagcac	W13878
98807	tgggcctggctatttccctggtggc	W13878
98808	gggcctggctatttccctggtggca	W13878

TABLE 1

SEQ ID NO	sequence	DBAxnID
13601	tggccgagactcccttggtagcttt	M28489
13602	tggggccatctgcacatgacttcga	M28489
13603	agcaggtccagtgtcgcctctcaga	M28489
13604	ctcctggctcctcagcagaacttgg	M28489
13605	gctcctcagcagaacttggtcccca	M28489
13606	tctgttctggggttctagaaccact	M28489
13607	ttctagaaccactttctgctagagc	M28489
13608	atcttcgagatgattctgagcatgg	W55789
13609	gtgctgtgctgtggcatccggaaca	W55789
13610	ctatttctgtattactctgctacac	W55789
13611	tttctgtattactctgctacactta	W55789
13612	tattactctgctacacttagccttc	W55789
13613	tctgctacacttagccttctttact	W55789
13614	ctgtcacctttttggagccgacacca	W55789
13615	ccttttggagccgacaccacacata	W55789
13616	ggagccgacaccacacataggtggc	W55789
13617	gccgacaccacacataggtggcgta	W55789
13618	gacaccacacataggtggcgtatgt	W55789
13619	acacataggtggcgtatgtggggac	W55789
13620	tgctgtggcatccggaacagctccg	W55789
13621	ggcatccggaacagctccgtgtact	W55789
13622	atccggaacagctccgtgtactaag	W55789
13623	taaggcccttcgcttcgcaccagag	W55789
13624	accagagggtccctggaatgaccag	W55789
13625	gggtccctggaatgaccagaggcca	W55789
13626	tgaccagaggccaccttgggggcat	W55789
13627	accttgggggcatggctgctgtata	W55789
13628	taccaaagcatcaacacaaccagtc	X56304
13629	agcatcaacacaaccagtctaacag	X56304
13630	tactttcttgtttgattgagcaaag	X56304
13631	agcaaagtctcctagtgacagcaac	X56304
13632	tagtgacagcaacaccatgaatttt	X56304
13633	cagcaacaccatgaattttacttct	X56304
13634	caagctggccatacaggggacatgg	X56304
13635	ctccgagccagctgtgttttacaca	X56304
13636	ttacacaaagctgtacaattgttat	X56304
13637	ttgtacatttcctacaactgaagcc	X56304
13638	tcccaaacgtgtctggacagtacct	X56304
13639	acgtgtctggacagtacctgattgt	X56304
13640	aacacaaccagtctaacagtgaagc	X56304
13641	atttgatgggcgtccaagcagacca	X56304
13642	cagaccacacggatcactgaggcac	X56304
13643	acacggatcactgaggcactgatgt	X56304
13644	ctgatgtaggcccctctgcaacgac	X56304
13645	taggcccctctgcaacgacttcctt	X56304
13646	ttgcaccaaagacaacagtctacaa	X56304
13647	caaagacaacagtctacaagtttct	X56304
13648	ctcttcctcacagatcagtaccggg	W53226
13649	tcctcacagatcagtaccgggatcg	W53226
13650	cgccgaagacgcatcatgcaaaccg	W53226
13651	agacgcatcatgcaaaccgtggaga	W53226
13652	gaggctgttgctcaccattgtagat	W53226
13653	ggctgttgctcaccattgtagatac	W53226
13654	gttgctcaccattgtagatacttga	W53226
13655	tgctcaccattgtagatacttgagg	W53226
13656	ctcaccattgtagatacttgaggat	W53226
13657	ggaagactctgcccgaatacataga	W53226
13658	aagactctgcccgaatacatagacc	W53226
13659	gactctgcccgaatacatagaccag	W53226
13660	ctcacagatcagtaccgggatcgta	W53226
13661	cagatcagtaccgggatcgtaactg	W53226
13662	gatcgtaactgctaggcgccgaaga	W53226
13663	tcgtaactgctaggcgccgaagacg	W53226
13664	gtaactgctaggcgccgaagacgca	W53226
13665	aactgctaggcgccgaagacgcatc	W53226
13666	gctaggcgccgaagacgcatcatgc	W53226
13667	ggcgccgaagacgcatcatgcaaac	W53226
13668	atctatctatatctaatctatatct	U04354
56205	aatgttgtccttctgggatgtagcc	AA051182
56206	gttgtccttctgggatgtagccatt	AA051182
56207	cttctgggatgtagccattgatttc	AA051182
56208	tgatttctctccagaagagtgggaa	AA051182
56209	tatgacatttacctacaatggccag	X59769
56210	caacatcactaggaatattgaactc	X59769
56211	acaccaccagtactcagagaatgat	X59769
56212	gatttttgatccagtcacaagggag	X59769
56213	tgatccagtcacaagggaggatctg	X59769
56214	tccacggagttctcagtcactccat	X59769
56215	gagttctcagtcactccataccaca	X59769
56216	tcagtcactccataccacagtcaaa	X59769
56217	ctcctggagcattgcgctggcacct	X59769
56218	tgcgctggcacctctgtctctgatc	X59769
56219	ggcacctctgtctctgatcatcttg	X59769
56220	atatggactgaccaagctacggact	X59769
56221	ttctccctggagacaataccagca	X59769
56222	aagactgatagtcccgtgcaaagtg	X59769
56223	gatagtcccgtgcaaagtgtttctg	X59769
56224	tggtacatcttccaacaccattgtg	X59769
56225	gttggctaacagcacgtttatctcg	X59769
56226	cacgtttatctcggctgcttaccca	X59769
56227	tatctcggctgcttacccaagaggc	X59769
56228	ttacccaagaggccgtgtgaccgag	X59769
56229	agatactgaggtgcggctggaactc	AA051206
56230	tactgaggtgcggctggaactcagc	AA051206
56231	gccctgcgacttccctggctgtgga	AA051206
56232	ctgcgacttccctggctgtggaagg	AA051206
56233	aaggatcttctccaaccggcagtat	AA051206
56234	gatcttctccaaccggcagtatctg	AA051206
56235	ctccaaccggcagtatctgaatcac	AA051206
56236	gtatctgaatcaccacaagaagtac	AA051206
56237	tctgaatcaccacaagaagtaccag	AA051206
56238	gaagtaccagcatatccaccagaag	AA051206
56239	ccagcatatccaccagaagtcgttc	AA051206
56240	gcatatccaccagaagtcgttctgc	AA051206
56241	tgcagagctgcacatgactgagtct	AA051206
56242	catgactgagtctctggagagccct	AA051206
56243	tctggagagccctgggagtcaggcc	AA051206
56244	gagtcaggcccagtctgctccgaat	AA051206
56245	ccagtctgctccgaatccgacttgg	AA051206
56246	tgaggatactgcccagattgggctc	AA051206
56247	ggatactgcccagattgggctcagg	AA051206
56248	tgcccagattgggctcaggagaatt	AA051206
56249	ttgtgcagtgcctgtagtaccttgc	X85999
56250	agtgcctgtagtaccttgctccaaa	X85999
56251	aggccaatttctatttcatatctaa	X85999
56252	atttctatttcatatctaacatgta	X85999
56253	atttcatatctaacatgtatatata	X85999
56254	atatgatctctgtacacataaattt	X85999
56255	tgtgtgtatatccacctgcctataa	X85999
56256	gctatacataatcacacacatacat	X85999
56257	cataatcacacacatacatctttca	X85999
56258	cacacacatacatctttcagtagtc	X85999
56259	catacatctttcagtagtcattggc	X85999
56260	tctttcagtagtcattggcaaaata	X85999
56261	tgtagtaccttgctccaaatggatc	X85999
56262	ttccatttgtgaattccctttagag	X85999
56263	accttgctccaaatggatcaccctg	X85999
56264	ctccaaatggatcaccctgcaaatc	X85999
56265	atggatcaccctgcaaatcattaat	X85999
56266	aatttcactatttctcagacttcca	X85999
56267	actatttctcagacttccaaaagtg	X85999
56268	tctcagacttccaaaagtgaaaggc	X85999
56269	taacattcacatttagagaggccaa	X85999
56270	tccgggttcctgcagccatcagtcc	AA051253
56271	gggttcctgcagccatcagtccata	AA051253
56272	ctggaagctacagccttgagagctg	AA051253
98809	tggctatttccctggtggcaaccga	W13878
98810	ggctatttccctggtggcaaccgag	W13878
98811	atgctataacactagactcaaggaa	W13878
98812	gctataacactagactcaaggaaga	W13878
98813	ctataacactagactcaaggaagat	W13878
98814	cttacgctgtttcttcagattaact	AA145609
98815	tacgctgtttcttcagattaactac	AA145609
98816	gcagaacctatgcttcaggcatcct	AA145609
98817	cctatgcttcaggcatcctatagaa	AA145609
98818	tatgcttcaggcatcctatagaaga	AA145609
98819	tgcttcaggcatcctatagaagaag	AA145609
98820	gattattcttcaggggatctggata	AA145609
98821	ttattcttcaggggatctggataaa	AA145609
98822	ggatggaccttcctccgaagtgcct	AA145609
98823	atggaccttcctccgaagtgcctgg	AA145609
98824	tgcctggtaatccccagatttgagg	AA145609
98825	cctggtaatccccagatttgaggag	AA145609
98826	gtttcttcagattaactactgtctg	AA145609
98827	ttcttcagattaactactgtctgta	AA145609
98828	actactgtctgtagtgggttttcag	AA145609
98829	tactgtctgtagtgggttttcagtg	AA145609
98830	ggttttcagtggatgtggtggcatc	AA145609
98831	gcatcagcagaacctatgcttcagg	AA145609
98832	atcagcagaacctatgcttcaggca	AA145609
98833	cagcagaacctatgcttcaggcatc	AA145609
98834	caaatcttccagtatgatgcctttc	M36780
98835	tatgatgccttttcccctttgggctt	M36780
98836	catgtctctctattcattctatgga	M36780
98837	ttcattctatggagcctctgtttta	M36780
98838	tgttttacctaaaggcttgactgct	M36780
98839	aggcttgactgctattttagagtag	M36780
98840	acaccatatagaggccaatgattca	M36780
98841	ggccaatgattcatcttgagttgtc	M36780
98842	agttgtctactgcatattagatagc	M36780
98843	agatagcatagcatccttccttaag	M36780
98844	gctaaccttcctagacagattctt	M36780
98845	tttttctaaattccagttgcatcat	M36780
98846	tgggcttactttccacaggatatgc	M36780
98847	gctgtccttaacaccttcaagccca	M36780
98848	cttaacaccttcaagcccattgtct	M36780
98849	accttcaagcccattgtctccaagg	M36780
98850	attaagacatctctcaggaactcca	M36780
98851	acatctctcaggaactccacagtta	M36780
98852	ctcaggaactccacagttataacat	M36780
98853	ataacatttgatgtgactggaccct	M36780
98854	aatcttcatatcaataaatcttaat	AA145750
98855	cttcatatcaataaatcttaatcat	AA145750
98856	atccttgtctctgattcataaaaat	AA145750
98857	atgaagtctagctttcaccatttct	AA145750
98858	tctagctttcaccatttctttagaa	AA145750
98859	agctttcaccatttctttagaaatg	AA145750
98860	tttcaccatttctttagaaatgcat	AA145750
98861	taatagcaaacgtacctcacaacac	AA145750
98862	tagcaaacgtacctcacaacacaaa	AA145750
98863	gatttactgtggcacaggaagcccc	AA145750
98864	acccaaagtagtttctctgagatgt	AA145750
98865	agtttctctgagatgtttgacattg	AA145750
98866	atcaataaatcttaatcatacttca	AA145750
98867	tcttaatcatacttcaaacgtctat	AA145750
98868	tcatacttcaaacgtctatctaagc	AA145750
98869	tacttcaaacgtctatctaagcata	AA145750
98870	ttcaaacgtctatctaagcatatcc	AA145750
98871	aaacgtctatctaagcatatccttg	AA145750
98872	ctatctaagcatatccttgtctctg	AA145750
98873	catatccttgtctctgattcataaa	AA145750
98874	tctatggtgaccaccagaggttcgt	AA145724
98875	atggtgaccaccagaggttcgtaga	AA145724
98876	gtggtcatcgcctggggactgcaga	AA145724

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
13669	ctatatctaatctatatctatctat	U04354	56273	gaagctacagccttgagagctgcag	AA051253	98877	atcgcctggggactgcagagattga	AA145724
13670	gccacagtgcttctaagcatttccc	U04354	56274	gccttgagagctgcaggcttgtaga	AA051253	98878	caatggctgaccatcccgctgttcc	AA145724
13671	gctactctgtttgcagtgagcttta	U04354	56275	agctaagtaccgtgcagcttccctc	AA051253	98879	accatcccgctgttccagagactgc	AA145724
13672	gctttaacaatgccttgctgtttcc	U04354	56276	taagtaccgtgcagcttccctctac	AA051253	98880	ctgttccagagactgctgtcattgg	AA145724
13673	ccttgctgtttcccatctcaagtca	U04354	56277	gtaccgtgcagcttccctctacgtg	AA051253	98881	ttccagagactgctgtcattgggta	AA145724
13674	tgtttcccatctcaagtcaatgcca	U04354	56278	ccgtgcagcttccctctacgtgggt	AA051253	98882	cagagactgctgtcattgggtaccc	AA145724
13675	ccatctcaagtcaatgccacttgga	U04354	56279	tgcagcttccctctacgtgggtgac	AA051253	98883	ctgctgtcattgggtaccctcatga	AA145724
13676	caagtcaatgccacttggatgccat	U04354	56280	tgacctccacgaagatgtcacggag	AA051253	98884	ctgtcattgggtaccctcatgatat	AA145724
13677	aatgccacttggatgccattcactc	U04354	56281	cctccacgaagatgtcacggaggac	AA051253	98885	tcattgggtaccctcatgatatcaa	AA145724
13678	ttcactcccaagtgtccttacatag	U04354	56282	ttcctgcagccatcagtccataacc	AA051253	98886	tagatgcctacttcagagcgtaccc	AA145724
13679	cacatgctcaatagcataaagaata	U04354	56283	ctgcagccatcagtccataacctgg	AA051253	98887	ggtaccctcatgatatcaaaggaga	AA145724
13680	tctatctatctatctatatgctcct	U04354	56284	cagccatcagtccataacctggaag	AA051253	98888	atgcctacttcagagcgtacccagg	AA145724
13681	ccttctctttcaaagggaattgctg	U04354	56285	ccatcagtccataacctggaagcta	AA051253	98889	caggttattacttcactggagacgg	AA145724
13682	tactatactgaaataacctaaagca	U04354	56286	tcagtccataacctggaagctacag	AA051253	98890	attacttcactggagacggagctca	AA145724
13683	aattttgcaatctggggacctctga	U04354	56287	gtccataacctggaagctacagcct	AA051253	98891	accagatcacggggcgcatggatga	AA145724
13684	gcaatctggggacctctgaggaagt	U04354	56288	cataacctggaagctacagccttga	AA051253	98892	agatcacggggcgcatggatgatgt	AA145724
13685	taattttgtcattcagccactgcta	U04354	56289	aacctggaagctacagccttgagag	AA051253	98893	atgtcatcaatatcagtggtcatcg	AA145724
13686	tgtcattcagccactgctagccaaa	U04354	56290	ggacaacactgtggacctgcagcgc	X64534	98894	atatcagtggtcatcgcctggggac	AA145724
13687	tcagccactgctagccaaacttgtc	U04354	56291	tgtggacctgcagcgcgcagaggtc	X64534	98895	cttcggacttcagagcactttatgt	U35623
13688	ttcatgcctttctcctacccagatg	D25540	56292	ggtttaccctcggaagctcagcagc	X64534	98896	acttcagagcactttatgtagttga	U35623
13689	ttctcctacccagatgtgcttgaac	D25540	56293	gaagctcagcagctggagcgaagcc	X64534	98897	aatctgtttgtcttacacgtctctc	U35623
13690	tgtctattgccgaagaaaagttgta	D25540	56294	gctcagcagctggagcgaagcctgg	X64534	98898	tttgtcttacacgtctctcagggaa	U35623
13691	atgctgttctgtaagccatttcttt	D25540	56295	gaagacagccttggtgacttcagtg	X64534	98899	atgcagtcttcaagcatcttccatg	U35623
13692	ccttttctaggaaggcagatatag	D25540	56296	gacagccttggtgacttcagtggct	X64534	98900	agcatcttccatgtacattctatct	U35623
13693	ttcacatgttatgtagctgtaagta	D25540	56297	ggtgacttcagtggctacggtgctg	X64534	98901	ttccatgtacattctatctgggtga	U35623
13694	ttgaggtctcactacccttgagga	D25540	56298	accagctcttgaagactgcgaggtg	X64534	98902	gtacattctatctgggtgaacacct	U35623
13695	cactacccttgaggaaggcagctt	D25540	56299	agctcttgaagactgcgaggtgacg	X64534	98903	tctatctgggtgaacaccttcattc	U35623
13696	gtctttttatctcatatgtgcagat	D25540	56300	agactgcgaggtgacgcctgtgaca	X64534	98904	aacaccttcattctggtagagcacc	U35623
13697	tgcagatcttgcaactgcttgattt	D25540	56301	cgaggtgacgcctgtgacagacgcc	X64534	98905	ttcattctggtagagcacctaacac	U35623
13698	tcttgcaactgcttgatttacatgg	D25540	56302	gcccacgttgacagtggagtgcaac	X64534	98906	gagcacctaacactttaacagctgt	U35623
13699	tgcaactgcttgatttacatggtag	D25540	56303	gcggaacagattccaccatggcctc	X64534	98907	ggttagcctctcataacccagccat	U35623
13700	tcctacccagatgtgcttgaaccac	D25540	56304	gtacaccctgcaggtcaaccagagc	X64534	98908	cctctcataacccagccatggaagt	U35623
13701	tacccagatgtgcttgaaccactga	D25540	56305	ggtcaaccagagctcccgctcagag	X64534	98909	ttactaggagcctgacttcccagct	U35623
13702	gatgtgcttgaaccactgaggcaag	D25540	56306	ccgctcagagccacaggaatacaat	X64534	98910	aggtccagggccatgaagacttgga	U35623
13703	accccacaggagcactggagctctg	D25540	56307	ctcagagccacaggaatacaatgtc	X64534	98911	gcatgtggtctgagtgctgactaga	U35623
13704	cactggagctctgcagttgagacgt	D25540	56308	catctccttccgggtcaagtcgagg	X64534	98912	agttgaggcacatccttcagagaag	U35623
13705	tggagctctgcagttgagacgttta	D25540	56309	cttccgggtcaagtcgaggtcagag	X64534	98913	ggcacatccttcagagaagagggag	U35623
13706	aagtggcactccaaacatgtacagt	D25540	56310	ttgcagtctctgtaagggcgtttgt	AA051221	98914	ggctctcagcaaaatctgtttgtct	U35623
13707	atggtatacagactccttttgaaag	D25540	56311	gcagtctctgtaagggcgtttgtag	AA051221	98915	gaattatgccaaagcagtggaacta	AA145971
13708	tgcccggggagctggccaagcacgc	U62669	56312	tcctgcattatggagcgaagacaac	AA051221	98916	attatgccaaagcagtggaactact	AA145971
13709	agctggccaagcacgccgtgtcgga	U62669	56313	agacaacgattctatactggcttaa	AA051221	98917	ccattaagatccccaacaggcgtgt	AA145971
13710	ctgttgccagacaccgaatactgtt	U62669	56314	aacgattctatactggcttaacctg	AA051221	98918	cattaagatccccaacaggcgtgtt	AA145971
13711	tgttgccagacaccgaatactgttt	U62669	56315	cgattctatactggcttaacctgtg	AA051221	98919	taagatccccaacaggcgtgttaat	AA145971
13712	ttgccagacaccgaatactgtttaa	U62669	56316	tctatactggcttaacctgtgcgag	AA051221	98920	aagatccccaacaggcgtgttaatg	AA145971
13713	tgccagacaccgaatactgtttaat	U62669	56317	tatactggcttaacctgtgcgagat	AA051221	98921	agatccccaacaggcgtgttaatgc	AA145971
13714	cagacaccgaatactgtttaatcct	U62669	56318	ctggcttaacctgtgcgagattgtg	AA051221	98922	gatccccaacaggcgtgttaatgca	AA145971
13715	cgtgcctgtaaattcattggcgtaa	U62669	56319	ggcttaacctgtgcgagattgtgac	AA051221	98923	atccccaacaggcgtgttaatgcaa	AA145971
13716	taatgaaagacccacaacgtgagga	U62669	56320	taacctgtgcgagattgtgaccacc	AA051221	98924	tccccaacaggcgtgttaatgcaat	AA145971
13717	atgaaagacccacaacgtgaggact	U62669	56321	gattgtgaccaccatttccaacata	AA051221	98925	ccccaacaggcgtgttaatgcaatg	AA145971
13718	tgaaagacccacaacgtgaggactc	U62669	56322	tctctgtaagggcgtttgtagcaag	AA051221	98926	cccaacaggcgtgttaatgcaatgg	AA145971
13719	gacccacaacgtgaggactccacca	U62669	56323	gatgtgcatactcacggtattcctg	AA051221	98927	ggaactggcttccctgcagacttcc	AA145971
13720	gctggccaagcacgccgtgtcggag	U62669	56324	tgtgcatactcacggtattcctgca	AA051221	98928	aactggcttccctgcagacttccct	AA145971
13721	ccaagcacgccgtgtcggagggcac	U62669	56325	catactcacggtattcctgcattat	AA051221	98929	cttccctgcagacttcccttgttag	AA145971
13722	caagcacgccgtgtcggagggcacc	U62669	56326	tactcacggtattcctgcattatgg	AA051221	98930	ttccctgcagacttcccttgttaga	AA145971
13723	gtacaccagctccaagtgagttcct	U62669	56327	cacggtattcctgcattatggagcg	AA051221	98931	tccctgcagacttcccttgttagac	AA145971
13724	gctccaagtgagttcctttaacaca	U62669	56328	cggtattcctgcattatggagcgaa	AA051221	98932	gaagccattaagatccccaacaggc	AA145971
13725	gtgagttcctttaacacacactcct	U62669	56329	attcctgcattatggagcgaagaca	AA051221	98933	aagccattaagatccccaacaggcg	AA145971
13726	gagctgttgccagacaccgaatact	U62669	56330	gtccggtctacttcagcctaagcta	AA051298	98934	agccattaagatccccaacaggcgt	AA145971
13727	agctgttgccagacaccgaatactg	U62669	56331	agagcgcagtccttgtgatcatctg	AA051298	98935	tcgggacagccacgagcttctgctc	AA146008
13728	cagcacacatagcacagaagtcagc	W53323	56332	cctgtgatcctacccaggcactaag	AA051298	98936	ggacagccacgagcttctgctcctg	AA146008
13729	cacacatagcacagaagtcagctga	W53323	56333	gtgatcctacccaggcactaaggat	AA051298	98937	ctacggagcctcagcctaaggaggg	AA146008
13730	cgctgacgagcccaatttctgagga	W53323	56334	atcctacccaggcactaaggatcgt	AA051298	98938	tagcaatcttcagttatgaggctgc	AA146008
13731	tgacgagcccaatttctgaggacga	W53323	56335	ctacccaggcactaaggatcgtgtc	AA051298	98939	caatcttcagttatgaggctgccca	AA146008
13732	cgagcccaatttctgaggacgagcc	W53323	56336	cactaaggatcgtgtcctgaattca	AA051298	98940	tcagttatgaggctgcccagccaga	AA146008
13733	gcccaatttctgaggacgagcctct	W53323	56337	ggatcgtgtcctgaattcatgtcca	AA051298	98941	atgaggctgcccagccagaagacct	AA146008
13734	caatttctgaggacgagcctctctg	W53323	56338	tcgtgtcctgaattcatgtccacca	AA051298	98942	aggctgcccagccagaagacctgga	AA146008
13735	tttctgaggacgagcctctctgact	W53323	56339	tgtcctgaattcatgtccaccaaat	AA051298	98943	ctgcccagccagaagacctggaatt	AA146008
13736	ctgaggacgagcctctctgactatc	W53323	56340	gaattcatgtccaccaaattcgggt	AA051298	98944	cccagccagaagacctggaatttgt	AA146008

TABLE 1

SEQ ID NO	sequence	DBAxnID
13737	gctcgctttgctgtacgagacattg	W53323
13738	cgctttgctgtacgagacattgtgg	W53323
13739	tttgctgtacgagacattgtggcac	W53323
13740	agtcagctgagcttgcagagaagat	W53323
13741	attgacacaagttcctcgaagtcag	W53323
13742	gacacaagttcctcgaagtcaggca	W53323
13743	acaagttcctcgaagtcaggcagat	W53323
13744	tgctgacactgatgatatggtcgct	W53323
13745	tgatatggtcgctgacgagcccaat	W53323
13746	tatggtcgctgacgagcccaatttc	W53323
13747	ggtcgctgacgagcccaatttctga	W53323
13748	tcatcaaagctgtggacaagaaggc	
13749	aaggctgctggagctggcaaagtca	
13750	aggctgctggagctggcaaagtcac	
13751	gaaacaacttgaccaaaatctgtca	
13752	cttgaccaaaatctgtcacagattt	
13753	ttgaccaaaatctgtcacagatttt	
13754	aaatctgtcacagattttgagacca	
13755	aatctgtcacagattttgagaccat	
13756	atctgtcacagattttgagaccatt	
13757	tcatcaaagctgtggacaagaaggc	
13758	aaggctgctggagctggcaaagtca	
13759	accaaaatctgtcacagattttgag	
13760	ccaaaatctgtcacagattttgaga	
13761	caaaatctgtcacagattttgagac	
13762	aaaatctgtcacagattttgagacc	
13763	aaatctgtcacagattttgagacca	
13764	aatctgtcacagattttgagaccat	
13765	atctgtcacagattttgagaccatt	
13766	aggctgctggagctggcaaagtcac	
13767	gaaacaacttgaccaaaatctgtca	
13768	aacaacttgaccaaaatctgtcaca	
13769	acttgaccaaaatctgtcacagatt	
13770	cttgaccaaaatctgtcacagattt	
13771	ttgaccaaaatctgtcacagatttt	
13772	tgaccaaaatctgtcacagattttg	
13773	gaccaaaatctgtcacagattttga	
13774	aagtgtctttgcgggattgcttcag	AA138477
13775	gggattgcttcagccttttcaccaa	AA138477
13776	cccgaatcctcgtgctccatctgaa	AA138477
13777	tcgtgctccatctgaaccgattttc	AA138477
13778	tccatctgaaccgattttccacctc	AA138477
13779	cctcccgaggctccatcaagaaaag	AA138477
13780	taggtgtagacttcccactgcagag	AA138477
13781	gtgtagacttcccactgcagagact	AA138477
13782	tagacttcccactgcagagactaag	AA138477
13783	acttcccactgcagagactaagcct	AA138477
13784	tcccactgcagagactaagcctagg	AA138477
13785	cactgcagagactaagcctagggga	AA138477
13786	attgcttcagccttttcaccaagga	AA138477
13787	gcttcagccttttcaccaaggagga	AA138477
13788	gccttttcaccaaggaggaagagct	AA138477
13789	ttttcaccaaggaggaagagctaga	AA138477
13790	cggagaatgccccagtgtgtgaccg	AA138477
13791	agaatgccccagtgtgtgaccgatg	AA138477
13792	atgccccagtgtgtgaccgatgtcg	AA138477
13793	tgtgtgaccgatgtcggcagaaaac	AA138477
13794	acaacacctccattgaagagatgcc	L36611
13795	acacctccattgaagagatgcccct	L36611
13796	cccagccaaatctccaaagtgagtc	L36611
13797	agccaaatctccaaagtgagtcaag	L36611
13798	caaatctccaaagtgagtcaagggg	L36611
13799	atctccaaagtgagtcaaggggcta	L36611
13800	tggcctcattgctggaccaaatcta	L36611
13801	cctcattgctggaccaaatctacag	L36611
13802	cattgctggaccaaatctacaggag	L36611
13803	tgctggaccaaatctacaggagaaa	L36611
13804	tctacaggagaaacccctgagtgaa	L36611

SEQ ID NO:	sequence	DBAxnID
56341	ttcatgtccaccaaattcgggtgcc	AA051298
56342	gcgcagtccttgtgatcatctgccc	AA051298
56343	ggtattcgtggcatgttgggaatca	AA051298
56344	attcgtggcatgttgggaatcatgg	AA051298
56345	atcatggtcattcgacggacgactt	AA051298
56346	atggtcattcgacggacgacttctc	AA051298
56347	gtcattcgacggacgacttctccgt	AA051298
56348	ccgttgcctgtgatcctacccaggc	AA051298
56349	ttgcctgtgatcctacccaggcact	AA051298
56350	gcctattgctacaacccacatgcaa	AA051341
56351	tgctacaacccacatgcaaaggagt	AA051341
56352	gatgacaaccaggtctgctactggc	AA051341
56353	gacaaccaggtctgctactggcaca	AA051341
56354	aaccaggtctgctactggcacattc	AA051341
56355	caggtctgctactggcacattcggc	AA051341
56356	gtctgctactggcacattcggctca	AA051341
56357	tactggcacattcggctcaagtacg	AA051341
56358	tggcacattcggctcaagtacggtc	AA051341
56359	cacattcggctcaagtacggtcagc	AA051341
56360	cggctcaagtacggtcagcgaattc	AA051341
56361	cgaattcacctgagctttttggact	AA051341
56362	tacaacccacatgcaaaggagtgtg	AA051341
56363	aacccacatgcaaaggagtgtggtg	AA051341
56364	ggtgtcttcacagatccgaagcgaa	AA051341
56365	gtcttcacagatccgaagcgaattt	AA051341
56366	ttcacagatccgaagcgaatttta	AA051341
56367	ggcttcccaaatgagtacgatgaca	AA051341
56368	ttcccaaatgagtacgatgacaacc	AA051341
56369	tacgatgacaaccaggtctgctact	AA051341
56370	caaccttagcatcctttctcctagc	X06271
56371	tagcatcctttctcctagccccttt	X06271
56372	gcctctgtgcctggagcagctggat	X06271
56373	tctgtgcctggagcagctggatttt	X06271
56374	aatgagagccagccacatgctgggc	X06271
56375	cagccacatgctgggccttacttct	X06271
56376	ccacatgctgggccttacttctccg	X06271
56377	catgctgggccttacttctccgtgt	X06271
56378	catgccaacagaaagcataaaatgg	X06271
56379	ttcaggtatcagggtcactggagaa	X06271
56380	aggtatcagggtcactggagaagcc	X06271
56381	cagtttactccaggaaaaacagatg	X06271
56382	ttctcctagccccttagatagatg	X06271
56383	tcctagccccttagatagatgata	X06271
56384	acttaatgactctcttgctgaggga	X06271
56385	gggatgccacaccggggcttcctgc	X06271
56386	ggcttcctgctcctatctaacttca	X06271
56387	atacccactagtcaatctctcctca	X06271
56388	acttttcttatgtcctatgtatgaa	X06271
56389	ctgtgccatgactgtgcctctgtgc	X06271
56390	tcaccgcgccgaattgcacgcggaa	AA051147
56391	cgcgccgaattgcacgcggaaaacg	AA051147
56392	ccgaatcgatcttggctttgagcgt	AA051147
56393	gaatcgatcttggctttgagcgtcg	AA051147
56394	agcgtcgtcgcgttgaagggcttga	AA051147
56395	cgtcgtcgcgttgaagggcttgacg	AA051147
56396	tcgtcgcgttgaagggcttgacgat	AA051147
56397	cggtcttcgattccgcagtgaccat	AA051147
56398	gtcttcgattccgcagtgaccatga	AA051147
56399	cttcgattccgcagtgaccatgatg	AA051147
56400	tcgattccgcagtgaccatgatgaa	AA051147
56401	ttccgcagtgaccatgatgaaagga	AA051147
56402	cgttgaatgccgctgccttccatca	AA051147
56403	ttgaatgccgctgccttccatcagt	AA051147
56404	atgccgctgccttccatcagttctt	AA051147
56405	gccgctgccttccatcagttcttcg	AA051147
56406	catcagttcttcgacaccctcggct	AA051147
56407	tcagttcttcgacaccctcggcttt	AA051147
56408	ttcttcgacaccctcggctttgcgc	AA051147

SEQ ID NO	sequence	DBAxnID
98945	atgtaatcctggtactgtcacatgt	AA146008
98946	taatcctggtactgtcacatgtgaa	AA146008
98947	tctgctcctgtccgaagaaagcatg	AA146008
98948	tcctggtactgtcacatgtgaatga	AA146008
98949	gctcctgtccgaagaaagcatgaag	AA146008
98950	actactgcctgactctgtggtgtga	AA146008
98951	ttattgatgaacccatacaaaggga	AA146008
98952	gggaaaactcagacgccagtaagca	AA146008
98953	actcagacgccagtaagcagactac	AA146008
98954	agcagactacggagcctcagcctaa	AA146008
98955	agactacggagcctcagcctaagga	AA146008
98956	tcccatcctcagaacgcctaaatct	AA145859
98957	ccatcctcagaacgcctaaatctca	AA145859
98958	aatctcaagcgtctccattctatcc	AA145859
98959	atctcaagcgtctccattctatcca	AA145859
98960	attctatccaacactggctagttcg	AA145859
98961	tctatccaacactggctagttcgag	AA145859
98962	atccaacactggctagttcgagtta	AA145859
98963	tccaacactggctagttcgagttat	AA145859
98964	caacactggctagttcgagttatta	AA145859
98965	aacactggctagttcgagttattat	AA145859
98966	ataatgctaatccacacaccaaaat	AA145859
98967	taatgctaatccacacaccaaaatc	AA145859
98968	tcctcagaacgcctaaatctcaagc	AA145859
98969	aatgctaatccacacaccaaaatcg	AA145859
98970	cctcagaacgcctaaatctcaagcg	AA145859
98971	tcagaacgcctaaatctcaagcgtc	AA145859
98972	cagaacgcctaaatctcaagcgtct	AA145859
98973	aacgcctaaatctcaagcgtctcca	AA145859
98974	cgcctaaatctcaagcgtctccatt	AA145859
98975	ctaaatctcaagcgtctccattcta	AA145859
98976	taaatctcaagcgtctccattctat	AA145859
98977	tctacgtaaaccttgtcccacatct	J04947
98978	cacatctccctgtgttgaagtcttt	J04947
98979	atgttcagccattcagatcagacaa	J04947
98980	agccattcagatcagacaagcagct	J04947
98981	agacatcatgtcaggactgcactgg	J04947
98982	catgtcaggactgcactggatggta	J04947
98983	ggcaggcttaacccatctgtgctcc	J04947
98984	cttaacccatctgtgctcccataat	J04947
98985	ccatctgtgctcccataatccatta	J04947
98986	gtgctcccataatccattattgact	J04947
98987	ccataatccattattgactacacag	J04947
98988	tccattattgactacacagagaact	J04947
98989	atgacgcatgttgcccagggacatt	J04947
98990	ttgactacacagagaactggaattc	J04947
98991	catgttgcccagggacattggggtc	J04947
98992	cattgctcagggttcttagtctcag	J04947
98993	ttcttagtctcagtggtaagacagt	J04947
98994	tttacttgagcttacaggcaaaact	J04947
98995	tgagcttacaggcaaaactgagcta	J04947
98996	atttgagccaacatgttcagccatt	J04947
98997	gccaacatgttcagccattcagatc	J04947
98998	cagctccaggagacgctgctgcggg	W13191
98999	gctcttcgggctctggtgctgaaga	W13191
99000	accctgaacaacatgcattccgaga	W13191
99001	cctgaacaacatgcattccgagaag	W13191
99002	tgaacaacatgcattccgagaagct	W13191
99003	atgcattccgagaagctgctgtcct	W13191
99004	gcattccgagaagctgctgtccttc	W13191
99005	attccgagaagctgctgtccttccg	W13191
99006	gccccttgtacagaatcgaactct	W13191
99007	gaactctgcacttctctctccttta	W13191
99008	actctgcacttctctctcctttacg	W13191
99009	tctctctcctttacgagacgaaaag	W13191
99010	ttcgggctctggtgctgaagaaccg	W13191
99011	tgctgaagaaccggccctcggagac	W13191
99012	ttcaccaagctgctgctcaagctgc	W13191

TABLE 1

SEQ ID NO	sequence	DBAxnID
13805	ggagaaacccctgagtgaaggattg	L36611
13806	aagagatgcccctcaacgttgctga	L36611
13807	agatgcccctcaacgttgctgacct	L36611
13808	tgcccctcaacgttgctgacctcat	L36611
13809	ccctcaacgttgctgacctcattta	L36611
13810	tcaacgttgctgacctcatttaggg	L36611
13811	cactaatgcatttccctaacctagt	L36611
13812	taatgcatttccctaacctagtcac	L36611
13813	tgcatttccctaacctagtcacctc	L36611
13814	ggcaccacctcgaaggtcgaccatc	L11455
13815	aaggtcgaccatccgcaacgcacag	L11455
13816	atcgactccgcgcgtcaaaccacag	L11455
13817	ccgctgcacagagagcaccaaacgg	L11455
13818	caaacggaagctgacgtccgctgtg	L11455
13819	gaagctgacgtccgctgtgtgagaa	L11455
13820	gacgtccgctgtgtgagaagcagcg	L11455
13821	ggccctagacggctcctatccctat	L11455
13822	tatagcctcaggttagagactcctc	L11455
13823	actgagactctacagcaaaggacag	L11455
13824	actctacagcaaaggacaggactgg	L11455
13825	tctccaccggtattgctagcatgag	L11455
13826	gaccatccgcaacgcacagagcatc	L11455
13827	tctgattacctgctgctgtagtccc	L11455
13828	ccaccagcgttctcggaagcgcctt	L11455
13829	gcgttctcggaagcgccttagccag	L11455
13830	gcgccttagccaggacacctatcgc	L11455
13831	ctatcgccgcaacagcgtccgattc	L11455
13832	ccgcaacagcgtccgattcctgcag	L11455
13833	cctgcagcagcgcagacgcccgggg	L11455
13834	caatccatcgactccgcgcgtcaaa	L11455
13835	tcatcgagcatctgtatctggtgga	W53374
13836	tcgagcatctgtatctggtggagat	W53374
13837	ccgcatgctagtcgcgtcaaggcac	W53374
13838	catgctagtcgcgtcaaggcacacc	W53374
13839	agtcgcgtcaaggcacacctgcacg	W53374
13840	gtcaaggcacacctgcacgtccatg	W53374
13841	gcacacctgcacgtccatgagtcct	W53374
13842	cacctgcacgtccatgagtcctgta	W53374
13843	ctgcacgtccatgagtcctgtaggc	W53374
13844	gtccatgagtcctgtaggctccacg	W53374
13845	gagtcctgtaggctccacgcgctga	W53374
13846	ctccacgcgctgatcggcgatgcaa	W53374
13847	atctgtatctggtggagattcagtg	W53374
13848	tctagggtgtcctgagcagtcagcg	W53374
13849	gtgtcctgagcagtcagcgctgtca	W53374
13850	tgagcagtcagcgctgtcatcgccg	W53374
13851	gcagtcagcgctgtcatcgccgtgt	W53374
13852	gtcatcgccgtgtgaggagtctcag	W53374
13853	atcgccgtgtgaggagtctcaggtg	W53374
13854	tagccgcatgctagtcgcgtcaagg	W53374
13855	ttctctgtgcaggggatcttcgaga	U04962
13856	aatggctttgacccatcacaactgc	U04962
13857	gtgaacgtatgcactctggtgccac	U04962
13858	gtatgcactctggtgccacgtcggc	U04962
13859	tctggcggaccccttggtctgtaaca	U04962
13860	ttggtctgtaacaaccttgtccaag	U04962
13861	tgtaacaaccttgtccaaggcattg	U04962
13862	aaccttgtccaaggcattgactcct	U04962
13863	gtccaaggcattgactccttcatcc	U04962
13864	ttcatccgaggaggctgtggatctg	U04962
13865	ggattgtacccagatgccttcgccc	U04962
13866	atcaattccattatccgaaggcata	U04962
13867	tttgacccatcacaactgctgaacg	U04962
13868	ccatcacaactgctgaacgacattg	U04962
13869	caactgctgaacgacattgtgatta	U04962
13870	atccagctcaatggctccgctacca	U04962
13871	ggctccgctaccattaacgccaacg	U04962
13872	gccaacgtgcaggtggcccagctgc	U04962
56409	tgatttaagcgacggcggccgtggt	AA051147
56410	cctcacagagccgtacccacgaaga	X81582
56411	cacagagccgtacccacgaagacct	X81582
56412	acagcttccaagagtgagactgcca	X81582
56413	tactaggcccctatgctctgggggt	X81582
56414	tagagttgacctggcttggagtctg	X81582
56415	tctgagtcctggctgtctgcctctg	X81582
56416	tgtgcacacgcgtgcacatgctcgt	X81582
56417	tataggatgtgccctacaggataag	X81582
56418	aggatgtgccctacaggataagcct	X81582
56419	tgccctacaggataagcctgagcct	X81582
56420	taagcctgagccttctcgtgcccat	X81582
56421	tgagccttctcgtgcccatgatggg	X81582
56422	gccgtacccacgaagacctcttcat	X81582
56423	gtacccacgaagacctcttcatcat	X81582
56424	caaactgtgaccgcaacggcaactt	X81582
56425	actgtgaccgcaacggcaacttcca	X81582
56426	ccctggacggacagcgtggcaagtg	X81582
56427	agctggactgccaccagctggctga	X81582
56428	tggactgccaccagctggctgacag	X81582
56429	tggctgacagcttccaagagtgaga	X81582
56430	catcatggtcgtctttacacctctg	AA051365
56431	atcatggtcgtctttacacctctgc	AA051365
56432	gtagctctaccacggctgtaccaga	AA051365
56433	tagctctaccacggctgtaccagag	AA051365
56434	taccacggctgtaccagagaccctg	AA051365
56435	cacggctgtaccagagaccctgatc	AA051365
56436	cggctgtaccagagaccctgatcgg	AA051365
56437	ggctgtaccagagaccctgatcggg	AA051365
56438	ctgtaccagagaccctgatcggggc	AA051365
56439	tgtaccagagaccctgatcggggct	AA051365
56440	taccagagaccctgatcggggctga	AA051365
56441	tggatgctctgagatcgtgtgtgga	AA051365
56442	catggtcgtctttacacctctgcga	AA051365
56443	ggatgctctgagatcgtgtgtggac	AA051365
56444	atggtcgtctttacacctctgcgac	AA051365
56445	ggtcgtctttacacctctgcgacgt	AA051365
56446	cgtctttacacctctgcgacgtggc	AA051365
56447	tttacacctctgcgacgtggcgctc	AA051365
56448	gctcaccttcagtagctctaccacg	AA051365
56449	tcaccttcagtagctctaccacggc	AA051365
56450	tcagtagctctaccacggctgtacc	AA051365
56451	aaggctgtgcagacctctagactac	AA051446
56452	ctgtgcagacctctagactactgac	AA051446
56453	ctgactagggacctgacaggactgg	AA051446
56454	ctagggacctgacaggactggtcac	AA051446
56455	ggacctgacaggactggtcacgcag	AA051446
56456	ctgacaggactggtcacgcagtctg	AA051446
56457	cccctgtaagcccagagtccatcag	AA051446
56458	cctgtaagcccagagtccatcagtt	AA051446
56459	cactacacctccagagtacaaagca	AA051446
56460	acacctccagagtacaaagcactat	AA051446
56461	acctccagagtacaaagcactattt	AA051446
56462	agaacagaataccctctctctcct	AA051446
56463	gtgcagacctctagactactgacta	AA051446
56464	aacagaataccctctctctcctct	AA051446
56465	gcagacctctagactactgactagg	AA051446
56466	agacctctagactactgactaggga	AA051446
56467	ctctagactactgactagggacctg	AA051446
56468	ctagactactgactagggacctgac	AA051446
56469	agactactgactagggacctgacag	AA051446
56470	actactgactagggacctgacagga	AA051446
56471	tactgactagggacctgacaggact	AA051446
56472	aaatccctgggtctctggagactag	X81579
56473	tatttatactctggagcacaccatt	X81579
56474	caaagttctgctttgaaagggcagc	X81579
56475	ggcccactcggaattcctcatcgtc	X81579
56476	ctcggaattcctcatcgtctcacac	X81579
99013	tgctgctcaagctgccggacctgcg	W13191
99014	ctgctcaagctgccggacctgcgga	W13191
99015	ggacctgcggaccctgaacaacatg	W13191
99016	acctgcggaccctgaacaacatgca	W13191
99017	ctgcggaccctgaacaacatgcatt	W13191
99018	ggacctggcgatggctactaaatcc	AA146127
99019	gctactaaatccaagcccagtgtag	AA146127
99020	tgtgtgaaaacaaccccaatgtatt	AA146127
99021	gtgtgaaaacaaccccaatgtattg	AA146127
99022	tgtgaaaacaaccccaatgtattgt	AA146127
99023	gtgaaaacaaccccaatgtattgtg	AA146127
99024	tgaaaacaaccccaatgtattgtgt	AA146127
99025	acaaccccaatgtattgtgttgcaa	AA146127
99026	caaccccaatgtattgtgttgcaac	AA146127
99027	aaccccaatgtattgtgttgcaaca	AA146127
99028	accccaatgtattgtgttgcaacaa	AA146127
99029	ctactaaatccaagcccagtgtagc	AA146127
99030	tactaaatccaagcccagtgtagca	AA146127
99031	actaaatccaagcccagtgtagcat	AA146127
99032	ctaaatccaagcccagtgtagcatt	AA146127
99033	taaatccaagcccagtgtagcatta	AA146127
99034	aaatccaagcccagtgtagcattat	AA146127
99035	aatccaagcccagtgtagcattata	AA146127
99036	tcactggcatagagatctggtacga	AA146127
99037	cacgtatatgtcgcgagccttgcca	AA146128
99038	cgtatatgtcgcgagccttgccaca	AA146128
99039	tgagataccctgcgaagaatatggg	AA146128
99040	agataccctgcgaagaatatggggt	AA146128
99041	taaatttctgcaactggagagcttt	AA146128
99042	aatttctgcaactggagagctttgc	AA146128
99043	tctgcaactggagagctttgcgata	AA146128
99044	caactggagagctttgcgatatggg	AA146128
99045	actaagtgttctcacacagtaatga	AA146128
99046	agtgttctcacacagtaatgatggt	AA146128
99047	tgttctcacacagtaatgatggtga	AA146128
99048	ttctcacacagtaatgatggtgaaa	AA146128
99049	tatatgtcgcgagccttgccacatt	AA146128
99050	tgtcgcgagccttgccacatttgag	AA146128
99051	tcgcgagccttgccacatttgagat	AA146128
99052	gagccttgccacatttgagatactc	AA146128
99053	cttgccacatttgagatacttcttgt	AA146128
99054	ccacatttgagatactcttgtgaga	AA146128
99055	tactcttgtgagataccctgcgaag	AA146128
99056	cttgtgagataccctgcgaagaata	AA146128
99057	gccagactgtatcaccacgtgtcga	AA146156
99058	cagactgtatcaccacgtgtcgatg	AA146156
99059	aatatctaggtcacatccgagagca	AA146156
99060	atatctaggtcacatccgagagcac	AA146156
99061	atctaggtcacatccgagagcacag	AA146156
99062	tctaggtcacatccgagagcacagt	AA146156
99063	taggtcacatccgagagcacagtga	AA146156
99064	gtcacgacagctgatggcagacata	AA146156
99065	tcacgacagctgatggcagacatac	AA146156
99066	agacatactgcgactgtctgcgcct	AA146156
99067	gacatactgcgactgtctgcgcctt	AA146156
99068	atactgcgactgtctgcgccttcga	AA146156
99069	agactgtatcaccacgtgtcgatgg	AA146156
99070	actgtatcaccacgtgtcgatggca	AA146156
99071	ctgtatcaccacgtgtcgatggcaa	AA146156
99072	gtatcaccacgtgtcgatggcaaga	AA146156
99073	tatcaccacgtgtcgatggcaagaa	AA146156
99074	tcaccacgtgtcgatggcaagaata	AA146156
99075	caccacgtgtcgatggcaagaatat	AA146156
99076	ccacgtgtcgatggcaagaatatct	AA146156
99077	gttctgctttgagaggcccaagtgc	AA049140
99078	gagaggcccaagtgctccgagacat	AA049140
99079	cttggaagccacgtctgaacacttc	AA049140
99080	tggaagccacgtctgaacacttcaa	AA049140

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
13873	gacagaactccatgtctggccatgg	U04962	56477	attcctcatcgtctcacacagatct	X81579	99081	gaagccacgtctgaacacttcaaga	AA049140
13874	tcacccagtgtgctacaagagctca	U04962	56478	catcgtctcacacagatctgtgtct	X81579	99082	agccacgtctgaacacttcaagaca	AA049140
13875	gagtcatgtctttcacttttagtca	U10119	56479	tgatgcacatttgctgggaaagttc	X81579	99083	ccacgtctgaacacttcaagacaac	AA049140
13876	agttgtctaaccacacaacatctca	U10119	56480	aaagttccgatgctgattgtgtaac	X81579	99084	gtctgaacacttcaagacaacgtcc	AA049140
13877	catttgcattgcctacctgcaaaca	U10119	56481	agctgcgtcccatacattgttaaat	X81579	99085	ctgaacacttcaagacaacgtccca	AA049140
13878	cattgcctacctgcaaacaattact	U10119	56482	gtcccatacattgttaaatacacat	X81579	99086	gaacacttcaagacaacgtcccaga	AA049140
13879	aattgctatgcagttctaccttgcg	U10119	56483	gttaaatacacatctggaataaata	X81579	99087	acacttcaagacaacgtcccagaag	AA049140
13880	tatgcagttctaccttgcgagtgct	U10119	56484	tatatatccaggaactagtttttat	X81579	99088	ttcaagacaacgtcccagaaggtgg	AA049140
13881	ccttgcgagtgctacacggtaattg	U10119	56485	tttttatactccacatacttcttga	X81579	99089	ggcccaagtgctccgagacatggag	AA049140
13882	atatttgcacattttacatgctatg	U10119	56486	tactccacatacttcttgatgtaca	X81579	99090	cccaagtgctccgagacatggagga	AA049140
13883	gcacattttacatgctatgctatat	U10119	56487	acatacttcttgatgtacaagtggg	X81579	99091	agttaggaacctgcagagtgaggtg	AA049140
13884	tttacatgctatgctatatgattgc	U10119	56488	ctcatctctctcgtacatgtaaata	X81579	99092	ttaggaacctgcagagtgaggtgga	AA049140
13885	tgattgcctttgggttttgtgtaca	U10119	56489	gtaaatactatatctcagctcttgc	X81579	99093	atattatgacccagaatgtggagcg	AA049140
13886	ataatactgttcctatgtgaagtaa	U10119	56490	actatatctcagctcttgcaaagtt	X81579	99094	attatgacccagaatgtggagcgga	AA049140
13887	ctaaccacacaacatctcagtgtgg	U10119	56491	tctcagctcttgcaaagttctgctt	X81579	99095	tgacccagaatgtggagcggatctt	AA049140
13888	acacaacatctcagtgtggtattca	U10119	56492	atgatgagatcctgtctcctcgtcc	AA051455	99096	gacttggaagccacgtctgaacact	AA049140
13889	cataccatcgtgttatttcaatgtc	U10119	56493	tgatgagatcctgtctcctcgtccg	AA051455	99097	ctcatgaatatcctcaacaaggtcg	W77121
13890	ttatttcaatgtcttcaaatatatg	U10119	56494	cgtacccagctttatgatcagtggc	AA051455	99098	catgaatatcctcaacaaggtcgtg	W77121
13891	tatgtcacatacttgtgtaccaact	U10119	56495	gtacccagctttatgatcagtggcg	AA051455	99099	attgacacttgtcggagcatggtgg	W77121
13892	ttgtgtaccaactcttagttgtgcc	U10119	56496	acccagctttatgatcagtggcgca	AA051455	99100	tgacacttgtcggagcatggtggcc	W77121
13893	tcttagttgtgccttggacatttgc	U10119	56497	cccagctttatgatcagtggcgcac	AA051455	99101	gacacttgtcggagcatggtggccg	W77121
13894	ttgtgccttggacatttgcattgcc	U10119	56498	tcaaatcactctgcaggatgtccga	AA051455	99102	ttgtcggagcatggtggccgtcatg	W77121
13895	aggtactgagtgctcctcttcccga	W53339	56499	caaatcactctgcaggatgtccgag	AA051455	99103	gagcatggtggccgtcatggatagc	W77121
13896	gtactgagtgctcctcttcccgaca	W53339	56500	aaatcactctgcaggatgtccgaga	AA051455	99104	atggtggccgtcatggatagcgaca	W77121
13897	caagcttccgaggtctgaggtgaag	W53339	56501	atcactctgcaggatgtccgagaat	AA051455	99105	gtggccgtcatggatagcgacacca	W77121
13898	ttccgaggtctgaggtgaagctgct	W53339	56502	cactctgcaggatgtccgagaatct	AA051455	99106	cgacaccacaggcaagctgggcttt	W77121
13899	gaagctgctgtaggcacatggctgc	W53339	56503	tgtccgagaatctgtcatcttcttc	AA051455	99107	gacaccacaggcaagctgggctttg	W77121
13900	aagctgctgtaggcacatggctgca	W53339	56504	atgagatcctgtctcctcgtccgta	AA051455	99108	caccacaggcaagctgggctttgag	W77121
13901	ctgctgtaggcacatggctgcaatg	W53339	56505	tccgagaatctgtcatcttcttcag	AA051455	99109	atgaatatcctcaacaaggtcgtga	W77121
13902	ctgtaggcacatggctgcaatggac	W53339	56506	tgagatcctgtctcctcgtccgtac	AA051455	99110	gaatatcctcaacaaggtcgtgacc	W77121
13903	tgtaggcacatggctgcaatggaca	W53339	56507	gagatcctgtctcctcgtccgtacc	AA051455	99111	tatcctcaacaaggtcgtgacccga	W77121
13904	gtaggcacatggctgcaatggacaa	W53339	56508	ctcctcgtccgtacccagctttatg	AA051455	99112	ttttggcattgacacttgtcggagc	W77121
13905	taggcacatggctgcaatggacaag	W53339	56509	cctcgtccgtacccagctttatgat	AA051455	99113	tttggcattgacacttgtcggagca	W77121
13906	aggcacatggctgcaatggacaagg	W53339	56510	tcgtccgtacccagctttatgatca	AA051455	99114	tggcattgacacttgtcggagcatg	W77121
13907	tactgagtgctcctcttcccgacat	W53339	56511	cgtccgtacccagctttatgatcag	AA051455	99115	ggcattgacacttgtcggagcatgg	W77121
13908	cccgacatcctcaagcttccgaggt	W53339	56512	gtccgtacccagctttatgatcagt	AA051455	99116	cattgacacttgtcggagcatggtg	W77121
13909	ccgacatcctcaagcttccgaggtc	W53339	56513	atcagtgagtccgaggaggagcaca	X81581	99117	ccacctacatcccgtaattgatgaa	AA013832
13910	cgacatcctcaagcttccgaggtct	W53339	56514	gagcacaatgctgggagtgtggaaa	X81581	99118	tgaatgcctggcacactgccaatct	AA013832
13911	gacatcctcaagcttccgaggtctg	W53339	56515	gaatacggtccctgccgcagagaaa	X81581	99119	gattcaatatcttcacctacatatc	AA013832
13912	catcctcaagcttccgaggtctgag	W53339	56516	gacacactgaatcatctgaagttcc	X81581	99120	tcaatatcttcacctacatatccag	AA013832
13913	atcctcaagcttccgaggtctgagg	W53339	56517	catctgaagttcctcaatgtgctga	X81581	99121	atatcttcacctacatatccagcct	AA013832
13914	tcaagcttccgaggtctgaggtgaa	W53339	56518	ctcaatgtgctgagtcccagaggcg	X81581	99122	tcacctacatatccagcctgggtca	AA013832
13915	gtttgttctcgctggtgagtttcat	W53409	56519	gtgctgagtcccagaggcgtccaca	X81581	99123	cctacatatccagcctgggtcaaag	AA013832
13916	tgttctcgctggtgagtttcatact	W53409	56520	agaggcgtccacatcccaaactgtg	X81581	99124	acatatccagcctgggtcaaagttg	AA013832
13917	cagctgatcaggtggtgttaagacg	W53409	56521	ccttccaaaggcagaaagcagagct	X81581	99125	ccagcctgggtcaaagttgtacagt	AA013832
13918	tgttaagacgggctgtcctcgtgtg	W53409	56522	cgcttgccaggctacgacaccaagg	X81581	99126	cctgacccagttggtccaagcagca	AA013832
13919	gggctgtcctcgtgtgaagaacttg	W53409	56523	gacgacgtacattgcctcagcgtgc	X81581	99127	gacccagttggtccaagcagcaaaa	AA013832
13920	cttgtcaaagttctctgctcctttg	W53409	56524	gtacattgcctcagcgtgcagagcc	X81581	99128	ccagttggtccaagcagcaaaatat	AA013832
13921	ctctgctcctttgccacacactttg	W53409	56525	acacaccgagtgaccgattccaagt	X81581	99129	atgcctggcacactgccaatcttat	AA013832
13922	tgctcctttgccacacactttgggc	W53409	56526	gcctcagcgtgcagagccagtagat	X81581	99130	cctggcacactgccaatcttatcta	AA013832
13923	tcctttgccacacactttgggcttg	W53409	56527	cgagtgaccgattccaagttccatc	X81581	99131	ctgccaatcttatctacttcatcca	AA013832
13924	acacactttgggcttgaatggtggc	W53409	56528	ccactccatgccaagatggatgtca	X81581	99132	ccaatcttatctacttcatccagaa	AA013832
13925	ccagtcgatcctccggaagaaggca	W53409	56529	agggacagccagcgctacaaagttg	X81581	99133	acttcatccagaaagacaattcctt	AA013832
13926	gatcctccggaagaaggcatgctct	W53409	56530	agccagcgctacaaagttgactatg	X81581	99134	tccagaaagacaattccttgttgtg	AA013832
13927	tctcgctggtgagtttcatactgca	W53409	56531	gagtctcaaagcacagacacccaga	X81581	99135	ttctctacattgtaattggcatctt	AA013832
13928	tgagtttcatactgcactctgtaag	W53409	56532	caaagcacagacacccagaacttct	X81581	99136	taattggcatcttggagtagtttgg	AA013832
13929	gtttcatactgcactctgtaagatg	W53409	56533	tcctccgagtctaagcgggagacag	X81581	99137	gtgccctgcttctcctgacactctt	X55718
13930	tactgcactctgtaagatggggtgc	W53409	56534	ggaaacttgcctcagagagcagttc	AA051435	99138	ccctgcttctcctgacactctttgg	X55718
13931	gacatacgagaacccttcaaaatca	W53409	56535	tcaaatctggtggcatcacacagca	AA051435	99139	aatgccggccagttaggagacctga	X55718
13932	ttcaaaatcagactggtctatgtta	W53409	56536	gctgctccaactgtgtcttgtctag	AA051435	99140	ccaacctcatctcactgaacgagaa	X55718
13933	atcagactggtctatgttagcaata	W53409	56537	ccaactgtgtcttgtctagatcaga	AA051435	99141	acctcatctcactgaacgagaaaga	X55718
13934	aaccagctgatcaggtggtgttaag	W53409	56538	actgtgtcttgtctagatcagaggt	AA051435	99142	tcatctcactgaacgagaaagaaga	X55718
13935	aacctggtattgcaggctcttcttg	U10120	56539	gtgtcttgtctagatcagaggtgcc	AA051435	99143	aaactctgaccaccagtgtctggat	X55718
13936	cagggccgcaagcttcttatcatcg	U10120	56540	caacaattttcttgctctgaactaa	AA051435	99144	actggcacgactatcggctcaacta	X55718
13937	atgtccctgcagatggatcctgagt	U10120	56541	caattttcttgctctgaactaagtt	AA051435	99145	ggcacgactatcggctcaactacag	X55718
13938	aaattcttggccctcatgagagaag	U10120	56542	ttttcttgctctgaactaagttctc	AA051435	99146	actatcggctcaactacagcaagga	X55718
13939	ttggccctcatgagagaagaaggcg	U10120	56543	tgctctgaactaagttctctaattc	AA051435	99147	atcggctcaactacagcaaggacga	X55718
13940	gctagtcccctggactttgattgac	U10120	56544	tctctaattcctcccagtaaggctg	AA051435	99148	ggctcaactacagcaaggacgattt	X55718

TABLE 1

SEQ ID NO	sequence	DBAxnID
13941	caacggactgtctacaacagtgacc	U10120
13942	tgcagatggcctgggatcgtcactc	U10120
13943	cctcacactcaagacactggactac	U10120
13944	actcaagacactggactacgtgaag	U10120
13945	gacactggactacgtgaagtgtccg	U10120
13946	gatgttctcgtgttcctggactctg	U10120
13947	cttcttatcatcgggaccaccagcc	U10120
13948	atcatcgggaccaccagccgcaaag	U10120
13949	accagccgcaaagatgtcctgcagg	U10120
13950	cccaacattgccacaggagagcagc	U10120
13951	attgccacaggagagcagctgctgg	U10120
13952	gaagctctggagcttttgggcaact	U10120
13953	gataaggaacgcaccacaattgctc	U10120
13954	gaacgcaccacaattgctcagcaag	U10120
13955	acattagcatcatctccacttaccg	W53461
13956	attagcatcatctccacttaccgaa	W53461
13957	tggctctctatctctctcgttgtac	W53461
13958	ggctctctatctctctcgttgtaca	W53461
13959	gctctctatctctctcgttgtacat	W53461
13960	tctctatctctctcgttgtacatct	W53461
13961	ctctatctctctcgttgtacatctc	W53461
13962	tctatctctctcgttgtacatctct	W53461
13963	tatctctctcgttgtacatctctac	W53461
13964	atctctctcgttgtacatctctact	W53461
13965	tctctcgttgtacatctctactgtt	W53461
13966	ctctcgttgtacatctctactgtta	W53461
13967	ttagcatcatctccacttaccgaac	W53461
13968	tctcgttgtacatctctactgttag	W53461
13969	tagcatcatctccacttaccgaaca	W53461
13970	gcatcatctccacttaccgaacatc	W53461
13971	gccacgcgcgacgggagctgatcat	W53461
13972	ccacgcgcgacgggagctgatcatg	W53461
13973	cacgcgcgacgggagctgatcatgg	W53461
13974	atcctagacacgcagatttactgcg	W53461
13975	agacacgcagatttactgcgaccat	W53461
13976	aaattgtcctgatgatctgtggaat	U15443
13977	tttaatgtcccaatgctgggctcaa	U15443
13978	gaagcaaccacaggcagacaaagat	U15443
13979	tttctgccaggaaccacaggtggct	U15443
13980	accacaggtggcttatggctctcct	U15443
13981	tggcctgtctgaaggcctgaattat	U15443
13982	gaattatgcctgtcttgctcacaga	U15443
13983	tgcctgtcttgctcacagagaacat	U15443
13984	tcttgctcacagagaacatggagat	U15443
13985	ataatagtgtctcgtaggaaataca	U15443
13986	tacagcactgagatcaacatcgtgt	U15443
13987	atcaacatcgtgttaagttacttgc	U15443
13988	gtcccaatgctgggctcaagaacct	U15443
13989	atgctgggctcaagaacctgaccaa	U15443
13990	ccataacattcaaaaccaacttcag	U15443
13991	cttaaacaatgtttctcattgtgga	U15443
13992	tgacacgatgccagttgccttgatg	U15443
13993	gatgccagttgccttgatggaaacc	U15443
13994	tatggtcgttccgcaaaaatgtagc	U15443
13995	agacaagaagcaaccacaggcagac	U15443
13996	gccacccggcaggagcgtctgggca	W53511
13997	cacccggcaggagcgtctgggcacc	W53511
13998	gtacaagccctgcttcgtttgccag	W53511
13999	tacaagccctgcttcgtttgccagg	W53511
14000	caagccctgcttcgtttgccaggac	W53511
14001	aagccctgcttcgtttgccaggaca	W53511
14002	ctgcttcgtttgccaggacaagtca	W53511
14003	tgcttcgtttgccaggacaagtcat	W53511
14004	cttcgtttgccaggacaagtcatcg	W53511
14005	cgtttgccaggacaagtcatcgggc	W53511
14006	ttgccaggacaagtcatcgggctac	W53511
14007	tgccaggacaagtcatcgggctacc	W53511
14008	aaatgccatcgagacacagagtacc	W53511

SEQ ID NO:	sequence	DBAxnID
56545	cctcccagtaaggctgtaaatgctc	AA051435
56546	gcatcacacagcaggaggccaggtt	AA051435
56547	tcacacagcaggaggccaggttaac	AA051435
56548	cacagcaggaggccaggttaacttg	AA051435
56549	tgggttttacctgtgcccactgata	AA051435
56550	gttttacctgtgcccactgatacag	AA051435
56551	gtgcccactgatacagctgctccaa	AA051435
56552	gatacagctgctccaactgtgtctt	AA051435
56553	acagctgctccaactgtgtcttgtc	AA051435
56554	acgtcaaccgcagcgtgtcagacca	AA051486
56555	gtcaaccgcagcgtgtcagaccagt	AA051486
56556	accagttctatcgctacaagatgcc	AA051486
56557	cagttctatcgctacaagatgcccc	AA051486
56558	agttctatcgctacaagatgccccg	AA051486
56559	ttctatcgctacaagatgccccgtt	AA051486
56560	tctatcgctacaagatgccccgttt	AA051486
56561	tatcgctacaagatgccccgtttga	AA051486
56562	atcgctacaagatgccccgtttgat	AA051486
56563	cgctacaagatgccccgtttgattc	AA051486
56564	gctacaagatgccccgtttgattct	AA051486
56565	tacaagatgccccgtttgattctaa	AA051486
56566	aaccgcagcgtgtcagaccagttct	AA051486
56567	caagatgccccgtttgattctaaag	AA051486
56568	cgcagcgtgtcagaccagttctatc	AA051486
56569	gcgtgtcagaccagttctatcgcta	AA051486
56570	gtgtcagaccagttctatcgctaca	AA051486
56571	tgtcagaccagttctatcgctacaa	AA051486
56572	tcagaccagttctatcgctacaaga	AA051486
56573	cagaccagttctatcgctacaagat	AA051486
56574	gaccagttctatcgctacaagatgc	AA051486
56575	cgctctcgtgacacaaaccacagag	X81584
56576	cgtgacacaaaccacagagaccggc	X81584
56577	gacctcagaggcttctaccgcaagc	X81584
56578	ttctaccgcaagcagcagtgtcgtt	X81584
56579	ggccagcctttgccagtgtctccag	X81584
56580	cctttgccagtgtctccagatggtc	X81584
56581	agcactcagtgctctgccaggagca	X81584
56582	cagtgctctgccaggagcagtgggt	X81584
56583	tctgccaggagcagtgggtgaagcc	X81584
56584	gaataactctgtgcccaagacccaa	X81584
56585	ttacacagctagttagaaagattgc	X81584
56586	agattgctgttggcttgtgtactaa	X81584
56587	atacggcccaatcctgttcaagata	X81584
56588	cccaatcctgttcaagatagtgaga	X81584
56589	gattcagtactgcagcagctccaga	X81584
56590	gtactgcagcagctccagactgagg	X81584
56591	actgaggtcttccgaggcggagcac	X81584
56592	ctctatgtgccaaactgtgacctca	X81584
56593	gtgccaaactgtgacctcagaggct	X81584
56594	aactgtgacctcagaggcttctacc	X81584
56595	actattttgtagctctcagaagcca	AA051538
56596	gaagccaggactctgcaacactgtt	AA051538
56597	tctaccactgttagatacttctgcc	AA051538
56598	actgttagatacttctgccacccat	AA051538
56599	agatacttctgccacccatcctaag	AA051538
56600	cacccatcctaagagtatagttgtt	AA051538
56601	aaaggagtctcagctgctgtcagca	AA051538
56602	gtctcagctgctgtcagcaggagtc	AA051538
56603	gtcagcaggagtccctcattcgact	AA051538
56604	tcctgtggttgccctttccatcatg	AA051538
56605	ggttgccctttccatcatgccaaag	AA051538
56606	cctttccatcatgccaaagaataaa	AA051538
56607	aggactctgcaacactgtttgctgc	AA051538
56608	ctgcaacactgtttgctgcctgtgg	AA051538
56609	cactgtttgctgcctgtggatcttc	AA051538
56610	ttgctgcctgtggatcttctatatt	AA051538
56611	ctatattcacagtgtcccagttgct	AA051538
56612	tcacagtgtcccagttgcttctgat	AA051538

SEQ ID NO	sequence	DBAxnID
99149	ttctcctgacactctttggcagaag	X55718
99150	tgacactctttggcagaagccaggg	X55718
99151	tctttggcagaagccagggaaagaa	X55718
99152	tgtatcaccatctcttcgacaatta	X55718
99153	atcaccatctcttcgacaattatga	X55718
99154	atctcttcgacaattatgatccaga	X55718
99155	attatgatccagaatgccggccagt	X55718
99156	atgatccagaatgccggccagttag	X55718
99157	cccgccatattgtcgtcctgtgtct	AA146310
99158	cgccatattgtcgtcctgtgtcttt	AA146310
99159	gaatcgcaggaggtcacctggacac	AA146310
99160	gtcacctggacacccggtgactgga	AA146310
99161	cctggacacccggtgactggaaatg	AA146310
99162	tggacacccggtgactggaaatgga	AA146310
99163	ctatgctgaatgcatcccaaaagga	AA146310
99164	ggacaccttgaggaacctgtcctat	AA146310
99165	acaccttgaggaacctgtcctatat	AA146310
99166	caccttgaggaacctgtcctatata	AA146310
99167	cttgaggaacctgtcctatatagga	AA146310
99168	tgaggaacctgtcctatataggaaa	AA146310
99169	gccatattgtcgtcctgtgtctttg	AA146310
99170	atattgtcgtcctgtgtctttgact	AA146310
99171	attgtcgtcctgtgtctttgactgc	AA146310
99172	ttgtcgtcctgtgtctttgactgcg	AA146310
99173	gtcgtcctgtgtctttgactgcggc	AA146310
99174	cctactgacagcgggaatcgcagga	AA146310
99175	tactgacagcgggaatcgcaggagg	AA146310
99176	actgacagcgggaatcgcaggaggt	AA146310
99177	aatgtcctaccttctctaccagatg	AA146375
99178	catcaagcatctgcattcagctggt	AA146375
99179	cctggcgcgaacagcctgtaccaac	AA146375
99180	ggcgcgaacagcctgtaccaacttt	AA146375
99181	aacagcctgtaccaactttatgatg	AA146375
99182	ctgtaccaactttatgatgactccc	AA146375
99183	caactttatgatgactccctatgtg	AA146375
99184	gactccctatgtggtaactcgatac	AA146375
99185	tccctatgtggtaactcgatactat	AA146375
99186	ggtaactcgatactatcgggctcca	AA146375
99187	aactcgatactatcgggctccagaa	AA146375
99188	tcgatactatcgggctccagaagtc	AA146375
99189	caagcatctgcattcagctggtatc	AA146375
99190	ctatcgggctccagaagtcatcctg	AA146375
99191	gcattcagctggtatcattcataga	AA146375
99192	ttcagctggtatcattcatagagat	AA146375
99193	gaagcctagcaacattgtagtaaaa	AA146375
99194	ctgtaccctcaagatccttgacttt	AA146375
99195	taccctcaagatccttgactttggc	AA146375
99196	cctcaagatccttgactttggcctg	AA146375
99197	tgactttggcctggcgcgaacagcc	AA146375
99198	cttagcacagatgcagcagtaagta	AA146353
99199	aaggctactccttctcagtcgtcat	AA146353
99200	gatgcctcaacaggacccctggaag	AA146353
99201	tgttggagacggcgcacttgtctgt	AA146353
99202	cggcgcacttgtctgtgaaggaact	AA146353
99203	cgcacttgtctgtgaaggaactctc	AA146353
99204	tgaaggaactctcacttccatggcc	AA146353
99205	cacttccatggccccgagcgcgtgg	AA146353
99206	tcgaaaaactccatgttctgcatgt	AA146353
99207	aactccatgttctgcatgtaagaaa	AA146353
99208	gaaacacgatgccttgccctgctca	AA146353
99209	acacgatgccttgccctgctcagtt	AA146353
99210	ccttctcagtcgtcatccatcaatg	AA146353
99211	tgccttgccctgctcagttccagta	AA146353
99212	tctcagtcgtcatccatcaatgaca	AA146353
99213	tcgtcatccatcaatgacatctcat	AA146353
99214	tccatcaatgacatctcatccatgt	AA146353
99215	tccatgtccactgagcacaccctgg	AA146353
99216	accctggcctcagacacagacagca	AA146353

TABLE 1

SEQ ID NO	sequence	DBAxnID
14009	atgccatcgagacacagagtaccag	W53511
14010	tgccatcgagacacagagtaccagc	W53511
14011	acagagtaccagctctgaggagctc	W53511
14012	gagtaccagctctgaggagctcgtc	W53511
14013	taccagctctgaggagctcgtcccg	W53511
14014	ggtgtacaagccctgcttcgtttgc	W53511
14015	gtgtacaagccctgcttcgtttgcc	W53511
14016	ccaggctacaggagcctggctaaaa	D28941
14017	gctacaggagcctggctaaaagggg	D28941
14018	ttaaggcccaattctagagctggcc	D28941
14019	aaggcccaattctagagctggcctc	D28941
14020	ggcccaattctagagctggcctccc	D28941
14021	cccaattctagagctggcctcccag	D28941
14022	tctagagctggcctcccagaaagat	D28941
14023	tagagctggcctcccagaaagatgg	D28941
14024	tggcctcccagaaagatggaggcat	D28941
14025	gcctcccagaaagatggaggcatca	D28941
14026	ggttgctacttcccagcaggcatgg	D28941
14027	ttgctacttcccagcaggcatgggg	D28941
14028	aatgggctggtcccaggatgttcat	D28941
14029	tgggctggtcccaggatgttcatga	D28941
14030	ctggtcccaggatgttcatgaaagg	D28941
14031	ggtcccaggatgttcatgaaaggga	D28941
14032	acacaatacagtgttctgcccactt	D28941
14033	atttacatgtgattggcctgttaag	D28941
14034	atgtgattggcctgttaaggcccaa	D28941
14035	ttggcctgttaaggcccaattctag	D28941
14036	gccaccgcaacatgggcagccttttt	AA059517
14037	ccgcaacatgggcagccttttcggg	AA059517
14038	atgctgcaggcaccagaaagcatcc	AA059517
14039	caccagaaagcatccttgctgagca	AA059517
14040	ccagaaagcatccttgctgagcact	AA059517
14041	aaagcatccttgctgagcactaccg	AA059517
14042	agcatccttgctgagcactaccggg	AA059517
14043	tccttgctgagcactaccgggacct	AA059517
14044	cttgctgagcactaccgggacctac	AA059517
14045	ctgagcactaccgggacctacagag	AA059517
14046	gagcactaccgggacctacagagga	AA059517
14047	taccgggacctacagaggaagccat	AA059517
14048	gcaacatgggcagccttttcgggcg	AA059517
14049	ggaagccattctacccagctcttat	AA059517
14050	gcgctgttgtgcgggccacgctttc	AA059517
14051	ctggccccaagagcggacgtggttg	AA059517
14052	ttgctgtgaagccagatggggtaca	AA059517
14053	ctgtgatacaacgctttgagaggcg	AA059517
14054	ggcttcaagctcgtggggatgaaga	AA059517
14055	tcaagctcgtggggatgaagatgct	AA059517
14056	agatgctgcaggcaccagaaagcat	AA059517
14057	aagattccgaacaattacgacagca	AA030737
14058	agattccgaacaattacgacagcat	AA030737
14059	gtctatgacatcaccaatgaaaaat	AA030737
14060	tctatgacatcaccaatgaaaaatc	AA030737
14061	ctatgacatcaccaatgaaaaatcc	AA030737
14062	tgacatcaccaatgaaaaatccttt	AA030737
14063	acatcaccaatgaaaaatcctttga	AA030737
14064	caccaatgaaaaatcctttgacaat	AA030737
14065	gattccgaacaattacgacagcata	AA030737
14066	attccgaacaattacgacagcatac	AA030737
14067	ccgaacaattacgacagcatactat	AA030737
14068	caattacgacagcatactatagagg	AA030737
14069	aattacgacagcatactatagagga	AA030737
14070	attacgacagcatactatagaggag	AA030737
14071	aattatgctggtctatgacatcacc	AA030737
14072	ggtctatgacatcaccaatgaaaaa	AA030737
14073	gctggcaatgcaccttctaaaaaca	M87276
14074	ttccttgcctctcttcttgcatagt	M87276
14075	cctctgagcagcacacacagaagca	M87276
14076	agcagcacacacagaagcattttca	M87276

SEQ ID NO:	sequence	DBAxnID
56613	agttgcttctgatctaccactgtta	AA051538
56614	ttctgatctaccactgttagatact	AA051538
56615	gcatgcctggcatctctgcctcctt	X90819
56616	cctcctttcacactgcagtgctgaa	X90819
56617	ctaagcatgcagacatccctctgtg	X90819
56618	atgcagacatccctctgtggacttc	X90819
56619	atccacctctaaagagagtcactag	X90819
56620	tcactagtgaccaacagcctttctc	X90819
56621	gtgaccaacagcctttctctctcct	X90819
56622	ctaatcgactcctacatatatatgt	X90819
56623	tatatgtcattttgtcctagcaaac	X90819
56624	tgtcctagcaaacacccctagctc	X90819
56625	ttcctattccacgatgatatgcctt	X90819
56626	ttccacgatgatatgccttagtgtc	X90819
56627	ttcacactgcagtgctgaatctgct	X90819
56628	tgccttagtgtctcccctgaattc	X90819
56629	tgctgaatctgctcaaagccaacgc	X90819
56630	tcaaagccaacgcagctgctggcac	X90819
56631	ccaacgcagctgctggcaccactgg	X90819
56632	ggcgccctctgtctttgctctacta	X90819
56633	ctctgtctttgctctactatgacag	X90819
56634	ctttgctctactatgacagggacag	X90819
56635	gtgatacaggctgcctgaggtagaa	X90819
56636	tctgagacagcacatgcatctccca	U02298
56637	tctgccgcgggtaccatgaagatct	U02298
56638	tttgtcactcgaaggaaccgccaag	U02298
56639	actcgaaggaaccgccaagtgtgtg	U02298
56640	tacatcaactatttggagatgagct	U02298
56641	tttcttgattctgaccctgtatagc	U02298
56642	cttccctgtcattgcttgctctagt	U02298
56643	tgtcattgcttgctctagtcctagc	U02298
56644	tgcttgctctagtcctagccagctt	U02298
56645	ctctagtcctagccagcttggggat	U02298
56646	cgaggctctgcacagcaaacccaag	U02298
56647	cagcaaacccaagaaatcagcattt	U02298
56648	accatgaagatctctgcagctgccc	U02298
56649	tcaccatatggctcggacaccactc	U02298
56650	cgtgcccacgtcaaggagtatttct	U02298
56651	tatttctacaccagcagcaagtgct	U02298
56652	agcagcaagtgctccaatcttgcag	U02298
56653	aagtgctccaatcttgcagtcgtgt	U02298
56654	tccaatcttgcagtcgtgtttgtca	U02298
56655	cttgcagtcgtgtttgtcactcgaa	U02298
56656	atggccctgttggtgcacttcctac	X04725
56657	tggccctgttggtgcacttcctacc	X04725
56658	tctctggcatttattgtcatgttag	X04725
56659	ctctggcatttattgtcatgttagc	X04725
56660	ttagcatactattaaaccattgtta	X04725
56661	agcatactattaaaccattgttagg	X04725
56662	gcatactattaaaccattgttaggt	X04725
56663	tattaaaccattgttaggttggatg	X04725
56664	ttaaaccattgttaggttggatgat	X04725
56665	aaccattgttaggttggatgattat	X04725
56666	gagaactactgcaactaaggcccac	X04725
56667	gaactactgcaactaaggcccacct	X04725
56668	tatatagacatctttttctctggca	X04725
56669	atatagacatctttttctctggcat	X04725
56670	tatagacatctttttctctggcatt	X04725
56671	atagacatctttttctctggcattt	X04725
56672	tagacatctttttctctggcattta	X04725
56673	agacatctttttctctggcatttat	X04725
56674	gcagatcatgtctgagctggaaatc	AA051632
56675	agatcatgtctgagctggaaatcct	AA051632
56676	gatgtgaagccctccaacatgcttg	AA051632
56677	tgtgaagccctccaacatgcttgta	AA051632
56678	tgaagccctccaacatgcttgtaaa	AA051632
56679	aagccctccaacatgcttgtaaaca	AA051632
56680	gccctccaacatgcttgtaaacaca	AA051632

SEQ ID NO	sequence	DBAxnID
99217	tcagacacagacagcagtctcgatg	AA146353
99218	agcagtctcgatgcctcaacaggac	AA146353
99219	gaaggttcgcaccacagagacccaa	AA146434
99220	gttcgcaccacagagacccaagtgt	AA146434
99221	taacccagctgcactattgtgagaa	AA146434
99222	ccagctgcactattgtgagaaagcc	AA146434
99223	gagaaagccgacattcctctgatgg	AA146434
99224	gaaagccgacattcctctgatggtc	AA146434
99225	aagccgacattcctctgatggtcat	AA146434
99226	gccgacattcctctgatggtcatta	AA146434
99227	cgacattcctctgatggtcattaat	AA146434
99228	acattcctctgatggtcattaatgg	AA146434
99229	attcctctgatggtcattaatggtg	AA146434
99230	tcctctgatggtcattaatggtgag	AA146434
99231	gcaccacagagacccaagtgtttgt	AA146434
99232	gagacccaagtgtttgtggccacac	AA146434
99233	tctccaagaacgtttgaagataatt	AA146434
99234	tttgggatgccgggatcaaggcaca	AA146434
99235	atcaaggcacagatgccttataaaa	AA146434
99236	cccaaactgttaacccagctgcact	AA146434
99237	aactgttaacccagctgcactattg	AA146434
99238	gttaacccagctgcactattgtgag	AA146434
99239	atgctctgaacaagaacccaaatta	AA146505
99240	tgctctgaacaagaacccaaattac	AA146505
99241	gatcccagctgaacatttctaaacc	AA146505
99242	atcccagctgaacatttctaaacca	AA146505
99243	gcatagaacctgcaggctgcataaa	AA146505
99244	catagaacctgcaggctgcataaac	AA146505
99245	atagaacctgcaggctgcataaacg	AA146505
99246	tagaacctgcaggctgcataaacga	AA146505
99247	agaacctgcaggctgcataaacgaa	AA146505
99248	ggagccagatcctccctaactagat	AA146505
99249	gagccagatcctccctaactagatg	AA146505
99250	gctctgaacaagaacccaaattacg	AA146505
99251	ataactgacagatcccagctgaaca	AA146505
99252	taactgacagatcccagctgaacat	AA146505
99253	aactgacagatcccagctgaacatt	AA146505
99254	gacagatcccagctgaacatttcta	AA146505
99255	acagatcccagctgaacatttctaa	AA146505
99256	cagatcccagctgaacatttctaaa	AA146505
99257	agatcccagctgaacatttctaaac	AA146505
99258	agtcagaccaggagtccaataacgc	X03986
99259	agtccaataacgccgctgaggaatg	X03986
99260	agccatagccatcgctaggaaagat	X03986
99261	gtctccttgaatcctttcacactta	X03986
99262	cctttcacacttaccaaacatgcag	X03986
99263	acacttaccaaacatgcagtgttct	X03986
99264	accaaacatgcagtgttctacatgt	X03986
99265	gtgttctacatgtcctacatgttaa	X03986
99266	tacatgtcctacatgttaatgagag	X03986
99267	tctgctcacacggctgtattcttga	X03986
99268	cacacggctgtattcttgaagtgtc	X03986
99269	tctgtttgtattgccatggctagtt	X03986
99270	tgatggatcacatcctcctcggagt	X03986
99271	tcctcctcggagtctttatgctggt	X03986
99272	tctttatgctggtgtgtctcatcgg	X03986
99273	tcatcgggacgctggctgtgtttgc	X03986
99274	tgtttgcaggtcggctcattgagtt	X03986
99275	caggtcggctcattgagttacatca	X03986
99276	taagcctacctctgtcccagccata	X03986
99277	tgtcccagccatagccatcgctagg	X03986
99278	aagcttagcctctgtctgctttgaa	AA146282
99279	ttagcctctgtctgctttgaactga	AA146282
99280	ttgaaacagctcaaagctcactctc	AA146282
99281	aacagctcaaagctcactctcatgg	AA146282
99282	cagctcaaagctcactctcatggat	AA146282
99283	gctcaaagctcactctcatggatcc	AA146282
99284	tcaaagctcactctcatggatccct	AA146282

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
14077	attttcaggcatgtcaaagaaagga	M87276	56681	cctccaacatgcttgtaaacacagg	AA051632	99285	ctcactctcatggatccctgaacaa	AA146282
14078	gactcactagaactcaccgccaaac	M87276	56682	caacatgcttgtaaacacaggcgga	AA051632	99286	catggatccctgaacaacaatggta	AA146282
14079	caacctctgacataggtcctgagat	M87276	56683	atgcttgtaaacacaggcggacagg	AA051632	99287	tggatccctgaacaacaatggtaat	AA146282
14080	ctgacataggtcctgagatgtgggg	M87276	56684	ttgtaaacacaggcggacaggtcaa	AA051632	99288	gatccctgaacaacaatggtaatga	AA146282
14081	tgtacccaagagatgactgtatgaa	M87276	56685	gtaaacacaggcggacaggtcaagc	AA051632	99289	aatgatgctgtgctgagaagctgca	AA146282
14082	tactaaatcattttcaggggacaga	M87276	56686	atcatgtctgagctggaaatccttt	AA051632	99290	aggtcatccaggctaggaagagaga	AA146282
14083	ttgctgcatttccgcatgctgctgg	M87276	56687	tgtgactcatcgtatatcataggat	AA051632	99291	gtcatccaggctaggaagagagact	AA146282
14084	gctgattgacccaatcttccacaca	M87276	56688	tgactcatcgtatatcataggattt	AA051632	99292	agagactatgaacttcccaatgttc	AA146282
14085	cttgtaaagcctgagacctgcctca	M87276	56689	actcatcgtatatcataggatttta	AA051632	99293	agactatgaacttcccaatgttcat	AA146282
14086	gacccaatcttccacacaggcactt	M87276	56690	aaattccagagcacgtccttggaag	AA051632	99294	tgaacttcccaatgttcatgcaatt	AA146282
14087	atgcagttttcgaacccagagtcag	M87276	56691	gagcacgtccttggaagaattgcag	AA051632	99295	aacttcccaatgttcatgcaattat	AA146282
14088	ttttcgaacccagagtcagcactcg	M87276	56692	tgttaaaggccttacctatctgtgg	AA051632	99296	cttcccaatgttcatgcaattattg	AA146282
14089	gcactcggcctttaacgaatgagaa	M87276	56693	ttaaaggccttacctatctgtggag	AA051632	99297	tcccaatgttcatgcaattattgaa	AA146282
14090	atgcatcttccaagaccatgaagag	M87276	56694	caccagccctaagtgatccgctaca	X04724	99298	cggccacagcggctacggtgaacgg	W14370
14091	cttccaagaccatgaagagttcctt	M87276	56695	ccagccctaagtgatccgctacaat	X04724	99299	gccacagcggctacggtgaacgggt	W14370
14092	actcacagagccagaacttcttcga	M87276	56696	ctacaatcaaaaaccatcagcaagc	X04724	99300	ctgggccgcctgaagttggttctgc	W14370
14093	aggccacctctgagcagcacacaca	M87276	56697	aatcaaaaaccatcagcaagcaggt	X04724	99301	gccgcctgaagttggttctgcttga	W14370
14094	ggttcttgaagccagactgactaga	L31958	56698	tcaaaaaccatcagcaagcaggtta	X04724	99302	aagttggttctgcttgagctcaatc	W14370
14095	tcttgaagccagactgactagagca	L31958	56699	tcaacatggccctgtggatgcgctt	X04724	99303	gttggttctgcttgagctcaatctc	W14370
14096	agtcttgcctggcatctcctttaag	L31958	56700	caacatggccctgtggatgcgcttc	X04724	99304	ttggttctgcttgagctcaatctcc	W14370
14097	gcctggcatctcctttaagacaaga	L31958	56701	acatggccctgtggatgcgcttcct	X04724	99305	tggttctgcttgagctcaatctcct	W14370
14098	catctcctttaagacaagaaatcct	L31958	56702	catggccctgtggatgcgcttcctg	X04724	99306	ttctgcttgagctcaatctcctctt	W14370
14099	cttctcagaagcttctctgtaaggc	L31958	56703	caggtgaccttcagaccttggcact	X04724	99307	tctgcttgagctcaatctcctcttc	W14370
14100	ctcagaagcttctctgtaaggcaaa	L31958	56704	aggtgaccttcagaccttggcactg	X04724	99308	tgcttgagctcaatctcctcttcct	W14370
14101	cagactaacctgccctaatatactc	L31958	56705	agaactactgcaactagacccacca	X04724	99309	gcttgagctcaatctcctcttcctg	W14370
14102	tgctcctagcctgtgctcctctgtc	L31958	56706	gccctaagtgatccgctacaatcaa	X04724	99310	cacagcggctacggtgaacgggtcg	W14370
14103	cgtgcacagccttgttctaaccctg	L31958	56707	ccctaagtgatccgctacaatcaaa	X04724	99311	gcatgtacgagcaactcaaggacga	W14370
14104	gcacagccttgttctaaccctggaa	L31958	56708	taagtgatccgctacaatcaaaaac	X04724	99312	atgtacgagcaactcaaggacgagt	W14370
14105	tctaaccctggaataaaggtgactg	L31958	56709	agtgatccgctacaatcaaaaacca	X04724	99313	tgtacgagcaactcaaggacgagtg	W14370
14106	gactagagcaccctcagttcctagc	L31958	56710	gtgatccgctacaatcaaaaaccat	X04724	99314	gtacgagcaactcaaggacgagtgg	W14370
14107	ctcagttcctagctgagcccagatt	L31958	56711	gatccgctacaatcaaaaaccatca	X04724	99315	acgagcaactcaaggacgagtggaa	W14370
14108	actgctgcagacacctgccttaact	L31958	56712	atccgctacaatcaaaaaccatcag	X04724	99316	gaagaactgggccgcctgaagttgg	W14370
14109	gcagacacctgccttaactctcaca	L31958	56713	ccgctacaatcaaaaaccatcagca	X04724	99317	actgggccgcctgaagttggttctg	W14370
14110	tgccttaactctcacacctcgaaga	L31958	56714	gtctcgacttgtttaactgtgagat	AA051736	99318	agacttgagggctacgccattacca	AA152553
14111	tctcacacctcgaagactccagttt	L31958	56715	tctcgacttgtttaactgtgagatc	AA051736	99319	gacttgagggctacgccattaccag	AA152553
14112	ttcctaaatctccctagtcttgcct	L31958	56716	tcacctacctggacggattcgacca	AA051736	99320	ccattaccagcttgcttagcggggt	AA152553
14113	cctagtcttgcctggcatctccttt	L31958	56717	cacctacctggacggattcgaccag	AA051736	99321	cattaccagcttgcttagcggggtc	AA152553
14114	ggaaacaatcgaccaactgcacctg	W53582	56718	tggacggattcgaccaggaggacaa	AA051736	99322	ttaccagcttgcttagcggggtcct	AA152553
14115	gaaacaatcgaccaactgcacctgg	W53582	56719	attcgaccaggaggacaacgaagct	AA051736	99323	gggtccttgctgctactccatttgt	AA152553
14116	atcctggccatccagaacagaggtg	W53582	56720	ggacaacgaagctcccgactcggag	AA051736	99324	ggtccttgctgctactccatttgta	AA152553
14117	tcctggccatccagaacagaggtgg	W53582	56721	caacgaagctcccgactcggaggag	AA051736	99325	tccttgctgctactccatttgtaga	AA152553
14118	ggccatccagaacagaggtggagaa	W53582	56722	aagatgaagctggcccaccggaagg	AA051736	99326	ccttgctgctactccatttgtagaa	AA152553
14119	gccatccagaacagaggtggagaag	W53582	56723	agatgaagctggcccaccggaaggc	AA051736	99327	cttgctgctactccatttgtagaag	AA152553
14120	cactgtcaccatgtatgagctgcgc	W53582	56724	ctggcccaccggaaggctatgaaga	AA051736	99328	ttgctgctactccatttgtagaagg	AA152553
14121	actgtcaccatgtatgagctgcgca	W53582	56725	tggcccaccggaaggctatgaagag	AA051736	99329	tgctgctactccatttgtagaaggc	AA152553
14122	ctgtcaccatgtatgagctgcgcaa	W53582	56726	tgagatcacaaacctggaagattat	AA051736	99330	gagggctacgccattaccagcttgc	AA152553
14123	tgtcaccatgtatgagctgcgcaac	W53582	56727	agatcacaaacctggaagattatag	AA051736	99331	agggctacgccattaccagcttgct	AA152553
14124	gtcaccatgtatgagctgcgcaaca	W53582	56728	tttttgaactgctgcagcagatcac	AA051736	99332	ggctacgccattaccagcttgctta	AA152553
14125	tcaccatgtatgagctgcgcaacaa	W53582	56729	ttttgaactgctgcagcagatcacc	AA051736	99333	gctacgccattaccagcttgcttag	AA152553
14126	actgcacctggagtttgccaagaga	W53582	56730	tgaactgctgcagcagatcacctac	AA051736	99334	tacgccattaccagcttgcttagcg	AA152553
14127	caccatgtatgagctgcgcaacaag	W53582	56731	aactgctgcagcagatcacctacct	AA051736	99335	acgccattaccagcttgcttagcgg	AA152553
14128	gcccttcaacaactggatggaggga	W53582	56732	gcagatcacctacctggacggattc	AA051736	99336	cgccattaccagcttgcttagcggg	AA152553
14129	gttcaaggccacactgcccgaggcc	W53582	56733	gatcacctacctggacggattcgac	AA051736	99337	gccattaccagcttgcttagcgggg	AA152553
14130	ttcaaggccacactgcccgaggccg	W53582	56734	catgtcctgctcagttcctatctac	Y00848	99338	caggtaacagcctatacttcagcct	AA152515
14131	gtccatcctggccatccagaacaga	W53582	56735	ctgctcagttcctatctaccatttg	Y00848	99339	ggtaacagcctatacttcagccttt	AA152515
14132	tccatcctggccatccagaacagag	W53582	56736	caccagtgagattccatgtggacct	Y00848	99340	ttccccgtagaggcagaggagaagg	AA152515
14133	ccatcctggccatccagaacagagg	W53582	56737	tccacagctaagtggctggaggctg	Y00848	99341	gggcattctcttgatgcagtactgg	AA152515
14134	catcctggccatccagaacagaggt	W53582	56738	gaggctgccctaaaagctcaggagg	Y00848	99342	gcattctcttgatgcagtactgggc	AA152515
14135	ctcgcctcaaggcagagacttgacg	D28818	56739	aaagctcaggaggcaccgcaagcaa	Y00848	99343	attctcttgatgcagtactgggcct	AA152515
14136	gtgccgtgccactggtacttctgaa	D28818	56740	caggaggcaccgcaagcaagccttg	Y00848	99344	tcttgatgcagtactgggcctgatc	AA152515
14137	accatctatttcctgaaattctgac	D28818	56741	ccaccagcttgaccttagacttctg	Y00848	99345	ttgatgcagtactgggcctgatccg	AA152515
14138	tatttcctgaaattctgaccatcca	D28818	56742	gcttgaccttagacttctggccttc	Y00848	99346	gatgcagtactgggcctgatccgga	AA152515
14139	ccgatgagcccctggactctgggcc	D28818	56743	acttctggccttcaggctgtgacaa	Y00848	99347	tgcagtactgggcctgatccggagc	AA152515
14140	agcccctggactctgggcctgcatc	D28818	56744	ggccttcaggctgtgacaatacatt	Y00848	99348	tgatccggagcagctctcgacgaag	AA152515
14141	tggactctgggcctgcatcagactg	D28818	56745	gtgacaatacattcctgctgtttaa	Y00848	99349	atccggagcagctctcgacgaagct	AA152515
14142	ctgggcctgcatcagactggtgact	D28818	56746	agttcctatctaccatttgaccctg	Y00848	99350	agcctatacttcagcctttattgca	AA152515
14143	tcccaccaaactgtttctaatattg	D28818	56747	tacattcctgctgtttaaagaacca	Y00848	99351	tctcgacgaagctcctctgccaaga	AA152515
14144	gtttctaatattgtatcccgtggca	D28818	56748	tatctaccatttgaccctggttgac	Y00848	99352	cctatacttcagcctttattgcatt	AA152515

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
14145	aatattgtatcccgtggcactaagt	D28818	56749	gaccctggttgacacaacacaacct	Y00848	99353	tatacttcagccttttattgcattct	AA152515
14146	tcccaacggttatctacaaataatg	D28818	56750	ggttgacacaacacaacctttttctg	Y00848	99354	cttcagcctttattgcattctgata	AA152515
14147	tggtacttctgaaactgtgaattag	D28818	56751	atttggctgtaggctgggacacaca	Y00848	99355	tcagcctttattgcattctgatagg	AA152515
14148	tatccatgcaccctggacatgtgtc	D28818	56752	gctgggacacacacacgcacacaag	Y00848	99356	agcctttattgcattctgatagggt	AA152515
14149	tgcaccctggacatgtgtctttagc	D28818	56753	ttcagagcattccaccagtgagatt	Y00848	99357	cctttattgcattctgatagggtag	AA152515
14150	atgtgtctttagcatcgtctaagga	D28818	56754	gcattccaccagtgagattccatgt	Y00848	99358	cgctttccccgtagaggcagaggag	AA152515
14151	ctttagcatcgtctaaggatttatg	D28818	56755	ttggcaatggcaactccaccaaagg	AA051748	99359	ggactcgaagcctgcccgagtgtat	AA153158
14152	cattcttgtgctctgggcctttggg	D28818	56756	ggcaatggcaactccaccaaaggtg	AA051748	99360	gactcgaagcctgcccgagtgtatg	AA153158
14153	tgtgctctgggcctttgggaggaca	D28818	56757	actggcggctacttccaggaggagc	AA051748	99361	aagcacctcattattggtgtgtcct	AA153158
14154	tcactggataccaccatctatttcc	D28818	56758	gcggctacttccaggaggagcagct	AA051748	99362	acctcattattggtgtgtcctcaga	AA153158
14155	gaggcacttctgcaaatctctcttc	L19311	56759	ggctacttccaggaggagcagctgc	AA051748	99363	attattggtgtgtcctcagatagag	AA153158
14156	ggtggactacgcctactgtagcatt	L19311	56760	gctacttccaggaggagcagctgcg	AA051748	99364	tattggtgtgtcctcagatagaggg	AA153158
14157	ctgaatccaggtgccactgtgacac	L19311	56761	gagcagctgcgcaagccaggcatca	AA051748	99365	attggtgtgtcctcagatagagggc	AA153158
14158	gaccaaggatcttccaagttgtctg	L19311	56762	gcaagccaggcatcaagaaggcgaa	AA051748	99366	ttggtgtgtcctcagatagagggct	AA153158
14159	tccaagttgtctggggaccaccagt	L19311	56763	aagcttaccaggaagctgttgaatt	AA051748	99367	tggtgtgtcctcagatagagggctt	AA153158
14160	tcctggaccagactcccagatgact	L19311	56764	agcttaccaggaagctgttgaatttt	AA051748	99368	tgtgtcctcagatagagggctttgt	AA153158
14161	accagactcccagatgactcttgcc	L19311	56765	cttaccaggaagctgttgaatttca	AA051748	99369	tcctcagatagagggctttgtggtg	AA153158
14162	catgatgctgcctggcctggcctgg	L19311	56766	gtcctcagctccaggggtatctggg	AA051748	99370	actcgaagcctgcccgagtgtatgg	AA153158
14163	cacgcctataccagctctgtacagc	L19311	56767	gcaatggcaactccaccaaaggtgg	AA051748	99371	cgaagcctgcccgagtgtatgggac	AA153158
14164	tataccagctctgtacagcaccgcc	L19311	56768	gcaactccaccaaaggtggtaacag	AA051748	99372	gaagcctgcccgagtgtatgggaca	AA153158
14165	ctatgccctgtgacccaacaaaata	L19311	56769	tccaccaaaggtggtaacagcgatg	AA051748	99373	aagcctgcccgagtgtatgggacag	AA153158
14166	cctgtgacccaacaaaatacatgtg	L19311	56770	atccccaaacaactgactggcggct	AA051748	99374	tgcccgagtgtatgggacaggttct	AA153158
14167	ctacgcctactgtagcattcctacc	L19311	56771	tccccaaacaactgactggcggcta	AA051748	99375	gaagaagcacctcattattggtgtg	AA153158
14168	cccaacaaaatacatgtgtattccg	L19311	56772	cccaaacaactgactggcggctact	AA051748	99376	agaagcacctcattattggtgtgtc	AA153158
14169	tagcattcctacctatcccagcggc	L19311	56773	ccaaacaactgactggcggctactt	AA051748	99377	gaagcacctcattattggtgtgtcc	AA153158
14170	ctatcccagcggccagatcggcttc	L19311	56774	aactgactggcggctacttccagga	AA051748	99378	ggcacttccgagatccaccagatcg	AA153197
14171	cggcttcatgctgtgtagcaaaaac	L19311	56775	actgtagctcagtattcaggagtag	X69902	99379	acttccgagatccaccagatcgact	AA153197
14172	caccaacttccgggagccagtgcag	L19311	56776	tattcaggagtagcttggtggatca	X69902	99380	tccaagctgccactggccggccagt	AA153197
14173	cttccgggagccagtgcagcagttg	L19311	56777	aggcttacttccgatgcatagtatt	X69902	99381	ctgccactggccggccagtacagct	AA153197
14174	ctataactcggacatgcaccgtgcc	L19311	56778	acttccgatgcatagtattgatcta	X69902	99382	ccactggccggccagtacagcttga	AA153197
14175	cgtactgcctgagttcacccggaag	L19311	56779	acttccataattgtgtggattcttt	X69902	99383	ctggccggccagtacagcttgagga	AA153197
14176	ccttccctgatcacctggcacatga	W53496	56780	taagcgctctaggtacgatgacagc	X69902	99384	ccctataacaacctcaagcacaagt	AA153197
14177	tgtctgcacgccaggagctctaagg	W53496	56781	tgacagcattccccgataccatgcg	X69902	99385	tataacaacctcaagcacaagttcc	AA153197
14178	gcagtacctgcattatatcactgac	W53496	56782	ccatgcggtgcggatccggaaagaa	X69902	99386	ctcaagcacaagttcccgtggctct	AA153197
14179	gtacctgcattatatcactgacagt	W53496	56783	aggtgcttcaaagcctgctcagctc	X69902	99387	aagcacaagttcccgtggctctcag	AA153197
14180	cctgcattatatcactgacagtgtc	W53496	56784	cccccatatatgatttcagactgac	X69902	99388	cacaagttcccgtggctctcagagg	AA153197
14181	gcattatatcactgacagtgtcgtt	W53496	56785	cgacacccagtatggacctacagtt	X69902	99389	ccgtggctctcagaggccggactcc	AA153197
14182	ttatatcactgacagtgtcgttgct	W53496	56786	tacagtttcaactgtggatattgtt	X69902	99390	tccgagatccaccagatcgacttga	AA153197
14183	tatcactgacagtgtcgttgctggc	W53496	56787	tggatcatcctcctggctgttcttg	X69902	99391	atccaccagatcgacttgattgtac	AA153197
14184	cactgacagtgtcgttgctggcttc	W53496	56788	ctggctgttcttgccgggattctga	X69902	99392	caccagatcgacttgattgtacagc	AA153197
14185	tgacagtgtcgttgctggcttccat	W53496	56789	attctgatgctggctctattagtgt	X69902	99393	ttgattgtacagctgttggggacac	AA153197
14186	tggcttccatgtgggctactacgga	W53496	56790	atgctggctctattagtgtttttac	X69902	99394	attgtacagctgttggggacaccga	AA153197
14187	gcttccatgtgggctactacggaat	W53496	56791	gatcattacgatgccacctatcaca	X69902	99395	ctgttggggacaccgagtgagaata	AA153197
14188	ctgcacgccaggagctctaaggcac	W53496	56792	tacgatgccacctatcacaaggctg	X69902	99396	atctggccgggtttctccaagctgc	AA153197
14189	cttccatgtgggctactacggaata	W53496	56793	gccacctatcacaaggctgagatcc	X69902	99397	ggtttctccaagctgccactggccg	AA153197
14190	agctctaaggcacgtgctctgctag	W53496	56794	gagatccatactcagccgtctgata	X69902	99398	caaatgctgcaggtactctcaagct	M14537
14191	tctaaggcacgtgctctgctagctg	W53496	56795	atcgcgccactgcgaccgcaggaac	X74342	99399	ctgcaggtactctcaagctcaatac	M14537
14192	cgtgctctgctagctggtcgctaag	W53496	56796	caggaaccccggtgaggacagcagt	X74342	99400	gttacttccttagcctagcaattgt	M14537
14193	gctctgctagctggtcgctaagtct	W53496	56797	gctgcttctgatgccaagctaatgg	X74342	99401	tccttagcctagcaattgttggaat	M14537
14194	ctagctggtcgctaagtctgagtgg	W53496	56798	aagctaatggccagatctgcctctg	X74342	99402	ttggaatcacagacctggtaaacca	M14537
14195	tggccctgatggtactgggaccaag	W53496	56799	atggccagatctgcctctgaggact	X74342	99403	tcacagacctggtaaaccagcacac	M14537
14196	tgtgcagtacctgcattatatcact	W53496	56800	agatctgcctctgaggactctttcc	X74342	99404	taaaccagcacacttggagtttgtt	M14537
14197	catccagagacctgtcgtcttttgt	U13174	56801	tctgcctctgaggactctttcctgg	X74342	99405	cagcttagatctctagtgaaataga	M14537
14198	atgttaaactctgccttcagatgtt	U13174	56802	tctgaggactctttcctgggaccaa	X74342	99406	gactgtaagccttttgaggacagga	M14537
14199	ctgatgatctacccagtaattcttg	U13174	56803	tagacaacctgggctccaaactgag	X74342	99407	agatctgttggctactgaattatcc	M14537
14200	atgatctacccagtaattcttgtat	U13174	56804	acctgggctccaaactgaggacaat	X74342	99408	attatccccagcaatgtgtacaggt	M14537
14201	atctacccagtaattcttgtataat	U13174	56805	tgggctccaaactgaggacaataaa	X74342	99409	tacaggtcctagcccataagtgctt	M14537
14202	tacccagtaattcttgtataatgct	U13174	56806	tacaaacttgagcgttccaatacgg	X74342	99410	tcaagctcaatacgcttggcgcttg	M14537
14203	atttagaatttttctctcaaatgtga	U13174	56807	taacctaggcgtcgcacaagaagaa	X74342	99411	tcaatacgcttggcgcttgtaagaa	M14537
14204	tagaattttctctcaaatgtgaggg	U13174	56808	aaattcttgagggcacgagagccag	X74342	99412	cgcttggcgcttgtaagaatcttgt	M14537
14205	aattttctctcaaatgtgagggact	U13174	56809	ttcttgagggcacgagagccagttg	X74342	99413	aggctgagcatggtgccttggaccc	M14537
14206	tttctctcaaatgtgagggacttttt	U13174	56810	tgctgcgagcttctggaaaaacagc	X74342	99414	ggcccaggctagcctggaactgtgg	M14537
14207	acatttcaataaacactatggggat	U13174	56811	cagccctgagcttctgaaaacttttg	X74342	99415	actgtggcgtccaggctggtctcaa	M14537
14208	catttcaataaacactatggggatt	U13174	56812	ccctgagcttctgaaaactttgagg	X74342	99416	gtctcaaactcccaacatgttactt	M14537
14209	ttaaactctgccttcagatgttatt	U13174	56813	aactttgaggctgcttctgatgcca	X74342	99417	caacatgttacttccttagcctagc	M14537
14210	aactctgccttcagatgttattctt	U13174	56814	gaggctgcttctgatgccaagctaa	X74342	99418	cttgtagctctgatcagttttacct	W80052
14211	ttttaatctctgttatcctaagtgg	U13174	56815	cctcctatgggaaccagaagagcgt	X58523	99419	gctctgatcagttttacctctggga	W80052
14212	taatctctgttatcctaagtggaca	U13174	56816	gcagcactcaatgactgcatctatg	X58523	99420	atttccctaataggaactgctcgcg	W80052

TABLE 1

SEQ ID NO	sequence	DBAxnID
14213	ttatcctaagtggacactgcttttc	U13174
14214	tcctaagtggacactgcttttctcc	U13174
14215	taagtggacactgcttttctcctcc	U13174
14216	tgactgatgatctacccagtaattc	U13174
14217	ttgactttctctaaagaagcagctt	W53668
14218	actttctctaaagaagcagctttct	W53668
14219	gagcaattatccattcatgtgatcc	W53668
14220	ttatccattcatgtgatccctggat	W53668
14221	tccattcatgtgatccctggatacc	W53668
14222	gtgatccctggataccagaggccac	W53668
14223	atccctggataccagaggccacttt	W53668
14224	cctggataccagaggccacttttgt	W53668
14225	ttaagggccctgtcaacaagccatc	W53668
14226	gccctgtcaacaagccatccgaagg	W53668
14227	taaaccttccagatggaatgtaagc	W53668
14228	accttccagatggaatgtaagccta	W53668
14229	gaagcagctttctctgtccacagaa	W53668
14230	aagcctatgtgtcctttgaatattt	W53668
14231	ttctctgtccacagaatttagcatc	W53668
14232	tctgtccacagaatttagcatcact	W53668
14233	atttagcatcacttgagatgctctt	W53668
14234	catcacttgagatgctcttctgggg	W53668
14235	cacttgagatgctcttctggggata	W53668
14236	tgctcttctggggataaaaatcaat	W53668
14237	tttcaacaggcctacccatttatca	W53668
14238	ctgtttaccagtccatgtgtcctca	D17433
14239	accagtccatgtgtcctcaatcaat	D17433
14240	gtctaagtaatctccagttcctctg	D17433
14241	gaaatgccggctttgtcttagcaca	D17433
14242	ccggctttgtcttagcacagattca	D17433
14243	ttgtcttagcacagattcagctcat	D17433
14244	agattcagctcatgacagcctatca	D17433
14245	tgacagcctatcatgagccctatta	D17433
14246	cctatcatgagccctattatagacg	D17433
14247	ccacttacacatgccaagaacatgg	D17433
14248	acacatgccaagaacatggcaaacg	D17433
14249	tcctttctgtgtcagagaataaaag	D17433
14250	gtcctcaatcaatatctgcatgacc	D17433
14251	aatcaatatctgcatgaccatgaca	D17433
14252	catgaccatgacatctgagactcac	D17433
14253	atctgagactcacggtgactttgat	D17433
14254	gactcacggtgactttgatggccac	D17433
14255	gccagcctgatattgtgaggctgat	D17433
14256	taatcattcttgtcacaactgacag	D17433
14257	agtgcttgcatttgttgttatgaag	D17433
14258	tccactcagcgtggtcacggctctc	W53694
14259	ctctgccctttctctgggagctgaa	W53694
14260	tgagctccttgcctctgttactgtc	W53694
14261	ccttgcctctgttactgtccctgag	W53694
14262	ctctgttactgtccctgagaagaac	W53694
14263	gagtgctctcatgaatgtgtttgag	W53694
14264	acttctgagcatatccagctttgtt	W53694
14265	gagcatatccagctttgttgtctct	W53694
14266	ctttgttgtctctctggagaagttc	W53694
14267	tgtctctctggagaagttctattgg	W53694
14268	attcttacgggcatacctgagtaga	W53694
14269	cttacgggcatacctgagtagatct	W53694
14270	cctttctctgggagctgaacatcga	W53694
14271	acatcgaacagagtctgtcattcat	W53694
14272	tctctactacgacctgtataccaac	W53694
14273	cctgtataccaaccctgacattcac	W53694
14274	ccctgacattcacagcacctacaat	W53694
14275	cattcacagcacctacaatgagctc	W53694
14276	cagcacctacaatgagctccttgcc	W53694
14277	ctacaatgagctccttgcctctgtt	W53694
14278	tatctgaatgaccacctagagcctt	U10102
14279	cacctagagccttggatccaggaga	U10102
14280	gacggagtcccctgcaattagcttt	U10102
56817	cggtcttctagccatgatttcttgg	X58523
56818	tctagccatgatttcttggccccag	X58523
56819	agccatgatttcttggccccaggta	X58523
56820	tgaagtttacaaccctcattcagat	X58523
56821	ttacaaccctcattcagatacatgg	X58523
56822	ccctcattcagatacatggacggaa	X58523
56823	taatatgatcactagtcgttgtgaa	X58523
56824	tgttgctgtactgtgacagagaagg	X58523
56825	taggttctgaccatttgcaaatcaa	X58523
56826	ctgaccatttgcaaatcaaacatat	X58523
56827	aatgactgcatctatgctattggag	X58523
56828	caagatgcccttcatactgtagaaa	X58523
56829	atgaaagttcctagagcaggcatgt	X58523
56830	gttcctagagcaggcatgtgtgctg	X58523
56831	agagcaggcatgtgtgctgtgacag	X58523
56832	tgtgctgtgacagtcaatggtcttc	X58523
56833	aatggtcttctgtatgtctctggag	X58523
56834	tatgtctctggaggccggtcttcta	X58523
56835	ggcctgcaactgtttgctgctcaag	W59713
56836	ctgcaactgtttgctgctcaaggtc	W59713
56837	agcgtgcaagctggcccaggagaac	W59713
56838	ggtgagtcatcgctctggagaaacc	W59713
56839	gagtcatcgctctggagaaaccgag	W59713
56840	tcatcgctctggagaaaccgaggac	W59713
56841	tcgctctggagaaaccgaggacacg	W59713
56842	aaccgaggacacgttcattgcagac	W59713
56843	cgaggacacgttcattgcagacctc	W59713
56844	cacgttcattgcagacctcgtagtg	W59713
56845	gttcattgcagacctcgtagtggga	W59713
56846	agacctcgtagtgggactgtgtaca	W59713
56847	caactgtttgctgctcaaggtcaac	W59713
56848	tttgctgctcaaggtcaaccagatc	W59713
56849	caaccagatcggctcagtcacagaa	W59713
56850	ccagatcggctcagtcacagaagcc	W59713
56851	cggctcagtcacagaagccatccaa	W59713
56852	agtcacagaagccatccaagcgtgc	W59713
56853	cacagaagccatccaagcgtgcaag	W59713
56854	agaagccatccaagcgtgcaagctg	W59713
56855	ccacatctacttctgatgagggtgc	X61147
56856	gggcactgccattcctggaggcaca	X61147
56857	agaccttcttcacacttcagattca	X61147
56858	tcttcacacttcagattcatagcag	X61147
56859	cacttcagattcatagcagcgatgg	X61147
56860	agattcatagcagcgatgggatccc	X61147
56861	tgtagataggtcacccgtcaaaagt	X61147
56862	tgtttgattatctacctttcaatca	X61147
56863	attatctacctttcaatcaacatga	X61147
56864	tacctttcaatcaacatgagattgc	X61147
56865	accattttcaacgattgttgacagg	X61147
56866	ttcaacgattgttgacaggggtcct	X61147
56867	gaactcgcttctctttaaagtcacg	X61147
56868	ctaatcttgagctcagcactagcca	X61147
56869	ttgagctcagcactagccagtattc	X61147
56870	ctcagaagtggctcctacccttct	X61147
56871	tttgtctctgctcggtgacaccctt	X61147
56872	tccctggagagcccagtcctccgtg	X61147
56873	gagagcccagtcctccgtgtattac	X61147
56874	ccagtcctccgtgtattacaccagt	X61147
56875	tccgtgactaactccatgacggtgt	X56602
56876	actaactccatgacggtgtcagaac	X56602
56877	aggggccacagcaacatctatgagg	X56602
56878	cacagcaacatctatgaggtctttc	X56602
56879	aacatctatgaggtctttctgacgc	X56602
56880	tatgaggtctttctgacgcagactg	X56602
56881	gtctttctgacgcagactgtagaca	X56602
56882	agtcacgaagaccagttctggctga	X56602
56883	cagttctggctgagcttcgagggaa	X56602
56884	ggcctaaagccccagtgcacagtga	X56602
99421	tccctaataggaactgctcgcgtta	W80052
99422	ctaataggaactgctcgcgttactg	W80052
99423	ggaactgctcgcgttactgaaatct	W80052
99424	actgctcgcgttactgaaatctcaa	W80052
99425	gaaatctcaaagtctgctgggagaa	W80052
99426	atctcaaagtctgctgggagaaaga	W80052
99427	tcaaagtctgctgggagaaagaagg	W80052
99428	gaacctcggcgttcagcagtcaggg	W80052
99429	cctcggcgttcagcagtcagggatg	W80052
99430	ctgatcagttttacctctgggaatt	W80052
99431	tttacctctgggaattcacatcact	W80052
99432	acctctgggaattcacatcactaaa	W80052
99433	aattcacatcactaaagcaacttg	W80052
99434	tcacatcactaaagcaactttgttg	W80052
99435	cactaaagcaactttgttgtggcga	W80052
99436	tttgttgtggcgatttccctaatag	W80052
99437	gcgatttccctaataggaactgctc	W80052
99438	caagcttataagcctttgcaacggt	AA152695
99439	gcctttgcaacggtttcttcaatgg	AA152695
99440	tcaaaattcacctgctaaaacctgc	AA152695
99441	aaattcacctgctaaaacctgctgg	AA152695
99442	aattcacctgctaaaacctgctgga	AA152695
99443	tcacctgctaaaacctgctggaatc	AA152695
99444	acctgctaaaacctgctggaatcct	AA152695
99445	cctgctaaaacctgctggaatcctt	AA152695
99446	tgctaaaacctgctggaatccttaa	AA152695
99447	aacctgctggaatccttaaatggct	AA152695
99448	acctgctggaatccttaaatggctt	AA152695
99449	gaatccttaaatggcttcctcaaag	AA152695
99450	gtttcttcaatgggtcccaccatgt	AA152695
99451	tttcttcaatgggtcccaccatgta	AA152695
99452	tcaatgggtcccaccatgtagaagg	AA152695
99453	caatgggtcccaccatgtagaaggc	AA152695
99454	tgggtcccaccatgtagaaggcttg	AA152695
99455	ggtcccaccatgtagaaggcttgtt	AA152695
99456	gtcccaccatgtagaaggcttgttc	AA152695
99457	cccaccatgtagaaggcttgttctg	AA152695
99458	ttcggatccatggttctcgatactt	AA109714
99459	tccatggttctcgatacttcgttgt	AA109714
99460	ggagcaccatgcctacgataaagtt	AA109714
99461	ccatgcctacgataaagttgcagag	AA109714
99462	ttgccaaacaatctgtgactatcaa	AA109714
99463	ccaaacaatctgtgactatcaagac	AA109714
99464	ctgtgactatcaagaccatgctgga	AA109714
99465	ctatcaagaccatgctggaagattt	AA109714
99466	tcaagaccatgctggaagatttggg	AA109714
99467	atgatgatcctgttcctttaccaaa	AA109714
99468	atgatcctgttcctttaccaaatgt	AA109714
99469	ttcctttaccaaatgttaatgcagc	AA109714
99470	atggttctcgatacttcgttgtggt	AA109714
99471	gttctcgatacttcgttgtggttgt	AA109714
99472	ctcgatacttcgttgtggttgtgaa	AA109714
99473	acttcgttgtggttgtgaactctgt	AA109714
99474	tggttgtgaactctgtccggcagcc	AA109714
99475	tgaactctgtccggcagcctcgggc	AA109714
99476	tcttgagacggagcaccatgcctac	AA109714
99477	gacggagcaccatgcctacgataaa	AA109714
99478	cacagctcttgagcggcctaaggca	AA152678
99479	acagctcttgagcggcctaaggcac	AA152678
99480	cctaaggcacctgactgcggcgtgc	AA152678
99481	gcttacctgctctttgaacaagcag	AA152678
99482	tacctgctctttgaacaagcagtgg	AA152678
99483	acctgctctttgaacaagcagtggc	AA152678
99484	cctgctctttgaacaagcagtggcg	AA152678
99485	ctgctctttgaacaagcagtggcgt	AA152678
99486	tgaacaagcagtggcgttgacatcg	AA152678
99487	tcaatttggacaggtgcacgcatgg	AA152678
99488	aatttggacaggtgcacgcatggat	AA152678

TABLE 1

SEQ ID NO	sequence	DBAxnID
14281	gtcccctgcaattagctttctagga	U10102
14282	tagctttctaggatctaccacactt	U10102
14283	atctaccacacttctgtgaaagcca	U10102
14284	cacacttctgtgaaagccaccttcc	U10102
14285	catctcagttctcttggcctcaaaa	U10102
14286	agttctcttggcctcaaaactcaca	U10102
14287	taaaccagctccttgaggctggcag	U10102
14288	cctgagcctctcgggaatgcttttc	U10102
14289	cctctcgggaatgcttttccagcag	U10102
14290	caggagaacggcggctgggacactt	U10102
14291	gacacttttgtggacgggcatgact	U10102
14292	tttgtggacgggcatgactgtggct	U10102
14293	cttcagtcggaagtgaccagacact	U10102
14294	tctcttcagccaccattgctaccag	U10102
14295	cagccaccattgctaccaggagaac	U10102
14296	ctaccaggagaaccactacatgcaa	U10102
14297	ggagaaccactacatgcaactcacg	U10102
14298	ctgcggttctccagaccagcccatg	AA044497
14299	cggttctccagaccagcccatggaa	AA044497
14300	caagtatgatccttcagaggccaca	AA044497
14301	gtatgatccttcagaggccacagga	AA044497
14302	ttcagaggccacaggatcctcaagc	AA044497
14303	agaggccacaggatcctcaagctgg	AA044497
14304	ggccacaggatcctcaagctgggat	AA044497
14305	aggatcctcaagctgggatttccag	AA044497
14306	atcctcaagctgggatttccagagc	AA044497
14307	ggatttccagagctctttcagaaga	AA044497
14308	tttccagagctctttcagaagagag	AA044497
14309	gtctaaggccctccaggaagactca	AA044497
14310	agaccagcccatggaagaatcatat	AA044497
14311	ggccctccaggaagactcacctgga	AA044497
14312	ccaacagctacctgctggactgtc	AA044497
14313	accctgctggactgtcatggaagat	AA044497
14314	tacgcccagaatgtagccttttta	AA044497
14315	gtagccttttcagtgaatgtgatg	AA044497
14316	gccttttcagtgaatgtgatgaca	AA044497
14317	gacagaagcccacaagtatgatcct	AA044497
14318	agcccacaagtatgatccttcagag	AA044497
14319	ctctcttctctgtgaacatccctaa	
14320	tctcttctctgtgaacatccctaaa	
14321	ctcttctctgtgaacatccctaaaa	
14322	tctctgtgaacatccctaaaactgc	
14323	ctctgtgaacatccctaaaactgcc	
14324	tctgtgaacatccctaaaactgccc	
14325	ctgtgaacatccctaaaactgccct	
14326	tgtgaacatccctaaaactgccctt	
14327	gtccgccccttgcttgtgtctctct	
14328	ctctcttctctgtgaacatccctaa	
14329	tctcttctctgtgaacatccctaaa	
14330	ctcttctctgtgaacatccctaaaa	
14331	tctctgtgaacatccctaaaactgc	
14332	ctctgtgaacatccctaaaactgcc	
14333	tctgtgaacatccctaaaactgccc	
14334	ctgtgaacatccctaaaactgccct	
14335	tgtgaacatccctaaaactgccctt	
14336	tggatgacctgcactcaatgggagc	U12142
14337	acctgcactcaatgggagcagggga	U12142
14338	ttctaaagttgccagatcttcgatc	U12142
14339	agttgccagatcttcgatctttaaa	U12142
14340	ttcgatctttaaacaacatgcactc	U12142
14341	acaacatgcactctgaggaactctt	U12142
14342	aggtcctgggctgtctctgtagtca	U12142
14343	tgggctgtctctgtagtcagtcacc	U12142
14344	gtctctgtagtcagtcaccagtagc	U12142
14345	agtcaccagtagctgttgggataag	U12142
14346	cctgtagaccaatcagctgtgttgc	U12142
14347	gaccaatcagctgtgttgcacttag	U12142
14348	tcagctctatgtttgagttcagtga	U12142

SEQ ID NO:	sequence	DBAxnID
56885	aagccccagtgcacagtgatcaagc	X56602
56886	catccagagccagtgttggttataa	X56602
56887	attgcccagaagattggtgtgccgg	X56602
56888	gcccaccaaactgcagtgctccagg	X56602
56889	caaactgcagtgctccaggacggtc	X56602
56890	gcagtgctccaggacggtcttaccc	X56602
56891	cagaactgcagcgagcctctgagca	X56602
56892	tgcagcgagcctctgagcatcctgg	X56602
56893	gagcctctgagcatcctggtgagga	X56602
56894	ctgagcatcctggtgaggaacgaaa	X56602
56895	tcggatccatgcactgaacggcttt	AA108647
56896	cggatccatgcactgaacggctttc	AA108647
56897	cctgcacctttagtcagcaccttta	AA108647
56898	tgcacctttagtcagcaccttagc	AA108647
56899	gcacctttagtcagcaccttagcc	AA108647
56900	cctttagtcagcaccttagccagc	AA108647
56901	tttagtcagcaccttagccagcac	AA108647
56902	ttagtcagcaccttagccagcacc	AA108647
56903	agtcagcaccttagccagcacctg	AA108647
56904	acctttagccagcacctgcgccaga	AA108647
56905	gaccccagcaatggcgaaccatgcg	AA108647
56906	accccagcaatggcgaaccatgcgc	AA108647
56907	gatccatgcactgaacggctttcag	AA108647
56908	atccatgcactgaacggctttcagc	AA108647
56909	catgcactgaacggctttcagcctc	AA108647
56910	tgcactgaacggctttcagcctccc	AA108647
56911	tgggctccacctgcctgcacttta	AA108647
56912	cacctgcctgcacctttagtcagca	AA108647
56913	ctgcctgcacctttagtcagcacct	AA108647
56914	gcctgcacctttagtcagcacctttt	AA108647
56915	ccctaccgggagaacatcacagcca	W07946
56916	gagaacatcacagccacatttgtcc	W07946
56917	agctccgcatctcgtctacttacaa	W07946
56918	tccgcatctcgtctacttacaacat	W07946
56919	gcatctcgtctacttacaacatgaa	W07946
56920	tctcgtctacttacaacatgaagaa	W07946
56921	ctacttacaacatgaagaaggttct	W07946
56922	gcatcagcaaaatctttgaggagaa	W07946
56923	tcacccggatctcatctcatcgaag	W07946
56924	ggatctcatctcatcgaagcctgaa	W07946
56925	tctcatctcatcgaagcctgaaggt	W07946
56926	catctcatcgaagcctgaaggtggg	W07946
56927	aacatcacagccacatttgtccttc	W07946
56928	atcacagccacatttgtccttcctg	W07946
56929	gccacatttgtccttcctgacaatg	W07946
56930	acatttgtccttcctgacaatggca	W07946
56931	caggcagacatctttgccaagtgga	W07946
56932	tggaaaagccttctctcaaaaagag	W07946
56933	agccttctctcaaaaagagtggtgg	W07946
56934	cttctctcaaaaagagtggtggatg	W07946
56935	caggccctaaggcgagaatcggag	X73052
56936	actggctgattccgtctttggaata	X73052
56937	atgacttacctggaatgcttctctt	X73052
56938	tacctggaatgcttctctttagggg	X73052
56939	gaatgcttctctttaggggaacaag	X73052
56940	ttctctttaggggaacaagagtgat	X73052
56941	aacacaggcaagactctgccttaat	X73052
56942	ctgctaactacatgaacacgaactg	X73052
56943	actacatgaacacgaactgtatttt	X73052
56944	tgttgaaagcgcacagtgtgcttta	X73052
56945	aagcgcacagtgtgctttaaagcat	X73052
56946	atttggctattaactgccaaaaatg	X73052
56947	tgattccgtctttggaatacttact	X73052
56948	acttactttgctacacagcctgacg	X73052
56949	tttgctacacagcctgacgttggtc	X73052
56950	acagttatacagaccatggtactgg	X73052
56951	atacagaccatggtactggtcgaga	X73052
56952	gagctttgcaggcctccaagagaca	X73052

SEQ ID NO	sequence	DBAxnID
99489	acaggtgcacgcatggatcataggt	AA152678
99490	cagctcttgagcggcctaaggcacc	AA152678
99491	agctcttgagcggcctaaggcacct	AA152678
99492	gctcttgagcggcctaaggcacctg	AA152678
99493	ctcttgagcggcctaaggcacctga	AA152678
99494	tcttgagcggcctaaggcacctgac	AA152678
99495	ttgagcggcctaaggcacctgactg	AA152678
99496	tgagcggcctaaggcacctgactgc	AA152678
99497	gcctaaggcacctgactgcggcgtg	AA152678
99498	ggggcaaacttcatcgtcaaccata	L10076
99499	gcaaacttcatcgtcaaccatatga	L10076
99500	ttcctgcagggtgtctacaaccagc	L10076
99501	ttctcctatagcgaacaggacaagc	L10076
99502	gacaagcgcttcatctagagcaggc	L10076
99503	aagcgcttcatctagagcaggcatg	L10076
99504	cggcacgtagttcctgcccttgagc	L10076
99505	cacgtagttcctgcccttgagcttg	L10076
99506	gcccttgagcttgtgcctagcgggt	L10076
99507	cagaggccatggtcgggagagctcc	L10076
99508	ggctccagggttgtgaagagaagca	L10076
99509	gcttcctgggaacagtcctgtgaga	L10076
99510	aacttcatcgtcaaccatatgagag	L10076
99511	aactggaaccaggtggcccgcacag	L10076
99512	tggaaccaggtggcccgcacagtgg	L10076
99513	cgcacagtggaccgtctctgcctgt	L10076
99514	tgcctgtttgtggtgacacccgtca	L10076
99515	ctgtttgtggtgacacccgtcatgg	L10076
99516	gtgggcacagcctggatcttcctgc	L10076
99517	tggatcttcctgcagggtgtctaca	L10076
99518	cacactagcaaacgcttggctggac	AA152745
99519	gctggacccataaggtcggatgaca	AA152745
99520	ccttggtacagctcatttataagat	AA152745
99521	ataagatcagcctgttctgtgtgct	AA152745
99522	ttctgttccaaagcatcaaacataa	AA152745
99523	gcatcaaacataacacggtacagtt	AA152745
99524	tacagttcttgtacatcatgctgtt	AA152745
99525	acatcatgctgtttccaagcctcac	AA152745
99526	tgctgtttccaagcctcactgctat	AA152745
99527	tcccatccaaagctccttgtaacat	AA152745
99528	ctccttgtaacatctgtggtctcaa	AA152745
99529	gtaacatctgtggtctcaattgctc	AA152745
99530	gtgtcaattctccagccttcataac	AA152745
99531	tctgtggtctcaattgctctcgttt	AA152745
99532	attctccagccttcataaccgcatt	AA152745
99533	cagccttcataaccgcattccagac	AA152745
99534	tcataaccgcattccagacacctca	AA152745
99535	tccagacacctcacataatctttca	AA152745
99536	cacctcacataatctttcagcttgc	AA152745
99537	acataatctttcagcttgccttggt	AA152745
99538	tctttcagcttgccttggtacagct	AA152745
99539	ggattccaaactgatccgtgtccct	AA108747
99540	attccaaactgatccgtgtccctct	AA108747
99541	atcttaaacccactgaatggatggg	AA108747
99542	taaacccactgaatggatgggaaca	AA108747
99543	aacccactgaatggatgggaacagc	AA108747
99544	acagctggcagagctttctaggacc	AA108747
99545	agctggcagagctttctaggacctc	AA108747
99546	tctccaagttcatgaacacccagta	AA108747
99547	tccaagttcatgaacacccagtatt	AA108747
99548	caagttcatgaacacccagtatttt	AA108747
99549	agttcatgaacacccagtattttgg	AA108747
99550	ggttccgtccacgagatgtcatttc	AA108747
99551	caaactgatccgtgtccctcttcaa	AA108747
99552	aactgatccgtgtccctcttcaacg	AA108747
99553	ctgatccgtgtccctcttcaacgaa	AA108747
99554	gatccgtgtccctcttcaacgaatc	AA108747
99555	tccctcttcaacgaatccaccttgg	AA108747
99556	ttcaacgaatccaccttggacacag	AA108747

TABLE 1

SEQ ID NO:	sequence	DBAxnID
14349	ccctccagctcagtgatgaggaaat	U12142
14350	tgagcttgttcacagcagttgttct	U12142
14351	actcagtggaggctttgcaggaaac	U12142
14352	tccgtgcactaaggaccttaataat	U12142
14353	tgaaaaaccatccaaatgaggcctc	U12142
14354	accatccaaatgaggcctccatttt	U12142
14355	aattacttctaaagttgccagatct	U12142
14356	ttaaactcatctataatgagtactg	AA014512
14357	atgagtactgtgggcctggagccaa	AA014512
14358	tcgagtcctgctctcggccaccgtt	AA014512
14359	agtcctgctctcggccaccgtttgc	AA014512
14360	ctcggccaccgtttgcacaagacac	AA014512
14361	ggccaccgtttgcacaagacaccca	AA014512
14362	caccgtttgcacaagacacccagca	AA014512
14363	ttgcacaagacacccagcactgagc	AA014512
14364	cacaagacacccagcactgagcatc	AA014512
14365	agcactgagcatcctgctgccgcat	AA014512
14366	actgagcatcctgctgccgcatgaa	AA014512
14367	catcctgctgccgcatgaacaggga	AA014512
14368	agtactgtgggcctggagccaagcc	AA014512
14369	ggcctggagccaagcccctcttcag	AA014512
14370	agcccctcttcaggagcaaggaaga	AA014512
14371	ccctcttcaggagcaaggaagatcc	AA014512
14372	aagatcccagtgtctgagtgaacct	AA014512
14373	atcccagtgtctgagtgaacctcga	AA014512
14374	gagtgaacctcgagtcctgctctcg	AA014512
14375	tgaacctcgagtcctgctctcggcc	AA014512
14376	cttgttctcgtcgtccacagatcca	AA008923
14377	tgttctcgtcgtccacagatccaaa	AA008923
14378	agcgtttctgcctgcttgaacttcc	AA008923
14379	tctgcctgcttgaacttcccttgtt	AA008923
14380	tgcctgcttgaacttcccttgtttc	AA008923
14381	cctgcttgaacttcccttgtttcag	AA008923
14382	tgcttgaacttcccttgtttcagat	AA008923
14383	cttcccttgtttcagataacaggag	AA008923
14384	tcccttgtttcagataacaggaggc	AA008923
14385	gttgttcttggtcttggccacgttg	AA008923
14386	tgttcttggtcttggccacgttggg	AA008923
14387	cttggtcttggccacgttgggatcg	AA008923
14388	ttctcgtcgtccacagatccaaact	AA008923
14389	acagatccaaactcccgctcgtgtg	AA008923
14390	gtgagaatctccttgtacagcgttt	AA008923
14391	gaatctccttgtacagcgtttctgc	AA008923
14392	ctccttgtacagcgtttctgcctgc	AA008923
14393	ccttgtacagcgtttctgcctgctt	AA008923
14394	gtacagcgtttctgcctgcttgaac	AA008923
14395	acagcgtttctgcctgcttgaactt	AA008923
14396	agcatctgtgcacccactcttcagc	X74438
14397	tgccaccttggtctgacttggccat	X74438
14398	gctagaaccatggtatcccatggga	X74438
14399	agaaccatggtatcccatgggaagc	X74438
14400	accatggtatcccatgggaagcaga	X74438
14401	atggtatcccatgggaagcagacag	X74438
14402	gtatcccatgggaagcagacagcag	X74438
14403	ccacctatagacaaagcagaacgag	X74438
14404	ttctccctctagcacaagggaacat	X74438
14405	tccctctagcacaagggaacatttc	X74438
14406	aatctacttttgtatcagtgtgaat	X74438
14407	ctacttttgtatcagtgtgaataaa	X74438
14408	caccttggtctgacttggccatggg	X74438
14409	cttggtctgacttggccatgggagc	X74438
14410	ggtctgacttggccatgggagcctt	X74438
14411	ctgacttggccatgggagcctttcc	X74438
14412	tcgccctgctttatccatgctagaa	X74438
14413	ccctgctttatccatgctagaacca	X74438
14414	tgctttatccatgctagaaccatgg	X74438
14415	tttatccatgctagaaccatggtat	X74438
14416	ctccagaaagcacattttctctcct	W66617
56953	tgcaggcctccaagagacatgatgg	X73052
56954	gcaggcaagcctcagtttgggtaca	X73052
56955	ttttgatagctcaggcctctagtag	W16377
56956	tgatagctcaggcctctagtagtgt	W16377
56957	agaaggagcctctgtgctgggtgca	W16377
56958	aggagcctctgtgctgggtgcagaa	W16377
56959	ctctgtgctgggtgcagaacatggg	W16377
56960	acatggggcactcatgggaatcacc	W16377
56961	actcccttctgggcagcactggtgc	W16377
56962	cccttctgggcagcactggtgcctc	W16377
56963	ttctgggcagcactggtgcctctgc	W16377
56964	cgactgtaaaccgtctcaagtgcaa	W16377
56965	ctgtaaaccgtctcaagtgcaatgc	W16377
56966	taaaccgtctcaagtgcaatgcccc	W16377
56967	tagctcaggcctctagtagtgttac	W16377
56968	ctcaggcctctagtagtgttaccct	W16377
56969	tgttggcaatcacacacggtaacct	W16377
56970	tggcaatcacacacggtaacctcat	W16377
56971	caatcacacacggtaacctcatacc	W16377
56972	tcacacacggtaacctcatacctgc	W16377
56973	acggtaacctcatacctgccctatg	W16377
56974	tggtccagaaggagcctctgtgctg	W16377
56975	atgccaactcttccaggaccaggtg	W16389
56976	ccaggaccaggtgtgcaagagcgga	W16389
56977	ttctactatcacgcacacaggctgg	W16389
56978	tatcacgcacacaggctggagtgcg	W16389
56979	cgctgcgtcaacacggtgggctctt	W16389
56980	tgcgtcaacacggtgggctcttacc	W16389
56981	gtcaacacggtgggctcttaccact	W16389
56982	gtgggctcttaccactgtacctgcg	W16389
56983	cactgtacctgcgagccccactggt	W16389
56984	gctgcgtctccaacgagagccagag	W16389
56985	gcgtctccaacgagagccagagcct	W16389
56986	tctccaacgagagccagagcctgga	W16389
56987	cacggccccagctactcttgctatt	W16389
56988	atctaggagtgtgctggcaggaagt	W16389
56989	cccagctactcttgctattgcagca	W16389
56990	agctactcttgctattgcagcaacg	W16389
56991	tactcttgctattgcagcaacgggt	W16389
56992	tattgcagcaacgggttctactatc	W16389
56993	tgcagcaacgggttctactatcacg	W16389
56994	aacgggttctactatcacgcacaca	W16389
56995	gggttctactatcacgcacacaggc	W16389
56996	atcccagaccattctcggcagctga	Z14050
56997	gaccattctcggcagctgacaaaga	Z14050
56998	accagtttcatctccaaagactcca	Z14050
56999	ttcatctccaaagactccatccaga	Z14050
57000	tccaaagactccatccagaagtccc	Z14050
57001	gactccatccagaagtccctacaca	Z14050
57002	atccagaagtccctacacatgtact	Z14050
57003	gctaacctacggctgccacatatgt	Z14050
57004	tcttcaacttcaaaactctcttagc	Z14050
57005	acttcaaaactctcttagctcttgt	Z14050
57006	aaactctcttagctcttgtgttcct	Z14050
57007	tcttagctcttgtgttcctaacctt	Z14050
57008	tctcggcagctgacaaagaacatga	Z14050
57009	atgcgaaaggccaccgcagacaacc	Z14050
57010	aaggccaccgcagacaacctgatca	Z14050
57011	accgcagacaacctgatcaagcagc	Z14050
57012	gacaacctgatcaagcagcgagagg	Z14050
57013	gctgacatccagaatttcaccagtt	Z14050
57014	atccagaatttcaccagtttcatct	Z14050
57015	aatttcaccagtttcatctccaaag	Z14050
57016	gtcctgctgccttggctttaccctc	D13181
57017	cctcatcccaggaccctgtgacaat	D13181
57018	ccttttcccagcttctgagcctggt	D13181
57019	ttctgagcctggtgggctctgtctc	D13181
57020	tgggctctgtctcaatgatggaggg	D13181
99557	caacgaatccaccttggacacagaa	AA108747
99558	acgaatccaccttggacacagaatc	AA108747
99559	actgatgtgctactctgtggccaac	AA152988
99560	gtgctactctgtggccaaccataac	AA152988
99561	cagggcttcctgcatcaatgccata	AA152988
99562	ttcctgcatcaatgccatagaaggg	AA152988
99563	ctgcatcaatgccatagaagggaag	AA152988
99564	gagacttgcccaggatgtgagagcc	AA152988
99565	acttgcccaggatgtgagagccaag	AA152988
99566	agccaaggctacctggagtgctcag	AA152988
99567	tacctggagtgctcagccctcagca	AA152988
99568	tcagccctcagcaaccggggagtac	AA152988
99569	gccctcagcaaccggggagtacagc	AA152988
99570	tgtgctgtccgaacagctgtcaacc	AA152988
99571	ctactctgtggccaaccataactcg	AA152988
99572	gctgtccgaacagctgtcaaccagg	AA152988
99573	ctctgtggccaaccataactcgttc	AA152988
99574	tgtggccaaccataactcgttcctg	AA152988
99575	caaccataactcgttcctgaacttg	AA152988
99576	ccataactcgttcctgaacttgaag	AA152988
99577	taccccggtgctggttgtggccaca	AA152988
99578	cccggtgctggttgtggccacacag	AA152988
99579	ggccacacagacggaccagagagag	AA152988
99580	tcctcccagtagcagtggaaacaga	AA153040
99581	ccagctgcagctctctctggcaatt	AA153040
99582	tgtgatccagagtctgtgatctccc	AA153040
99583	ccagagtctgtgatctcccaaagcc	AA153040
99584	gagtctgtgatctcccaaagccact	AA153040
99585	tctgtgatctcccaaagccactcct	AA153040
99586	tcatcctcatcagaggtgactggcc	AA153040
99587	tcctcatcagaggtgactggcccct	AA153040
99588	aacagtatcaaagtccacttatgcc	AA153040
99589	atcaaagtccacttatgccattact	AA153040
99590	aaagtccacttatgccattactgtg	AA153040
99591	gtccacttatgccattactgtgggg	AA153040
99592	gctgcagctctctctggcaattggg	AA153040
99593	gcagctctctctggcaattgggcta	AA153040
99594	ctctctggcaattgggctagatgat	AA153040
99595	tctggcaattgggctagatgatggc	AA153040
99596	gagcaccagaagcccccagtgtcca	AA153040
99597	cagaagcccccagtgtccatcaagc	AA153040
99598	aagcccccagtgtccatcaagcagg	AA153040
99599	ccagtgtccatcaagcaggagagat	AA153040
99600	ctgctcggagccctttgaagagact	W12233
99601	tgaagagacttcccagaaaggagac	W12233
99602	ggtgaaactcaacgcctgatggcag	W12233
99603	gaaactcaacgcctgatggcagcta	W12233
99604	actcaacgcctgatggcagctatgt	W12233
99605	cgcctgatggcagctatgtacacat	W12233
99606	tacacatgtgacatcatgggcacca	W12233
99607	tgtgacatcatgggcaccagtgatg	W12233
99608	atcatgggcaccagtgatgtcctcg	W12233
99609	agtgatgtcctcggccgagtctatg	W12233
99610	gtctatgccgtgctgtcaaagcgag	W12233
99611	tatgccgtgctgtcaaagcgagaag	W12233
99612	agagacttcccagaaaggagactct	W12233
99613	agactctccggttattgactgctat	W12233
99614	ctctccggttattgactgctatgga	W12233
99615	tattgactgctatggacccttctcc	W12233
99616	acccttctccgggcagctaattgct	W12233
99617	cttctccgggcagctaattgctacc	W12233
99618	gctaattgctaccatgaaagaagcc	W12233
99619	agccctgcgctacgctctgcaggtg	W12233
99620	acagtcaagaggcccaccaagaaag	J04192
99621	aagaccttctcactggtcaaggaga	J04192
99622	gactgtgttccagaaaccctatggg	J04192
99623	gaaaccctatgggagctgggctact	J04192
99624	agcactgtcaaccccatgtgctacg	J04192

TABLE 1

SEQ ID NO	sequence	DBAxnID
14417	aaagcacattttctctcctttcttg	W66617
14418	gcgttcttaggccgatagagctgag	W66617
14419	ttcttaggccgatagagctgagaca	W66617
14420	ccacagtccctgattgtccctggaa	W66617
14421	tctggtccgtttggctcacgccgca	W66617
14422	ccgtttggctcacgccgcagcagtg	W66617
14423	tcacgccgcagcagtgccattggca	W66617
14424	cgcagcagtgccattggcatcgaga	W66617
14425	agcagtgccattggcatcgagaaca	W66617
14426	agtgccattggcatcgagaacatcc	W66617
14427	atcgagaacatccaggaggttcagg	W66617
14428	gcacattttctctcctttcttgctc	W66617
14429	tttctctcctttcttgctcataacc	W66617
14430	ctctcctttcttgctcataacctgt	W66617
14431	tcctttcttgctcataacctgttgg	W66617
14432	gctcataacctgttggcttctgggc	W66617
14433	cataacctgttggcttctgggcgcg	W66617
14434	gggccactggcgttcttaggccgat	W66617
14435	ctggcgttcttaggccgatagagct	W66617
14436	tcgtgcttgtgctcggagctatgcc	
14437	tgcttgtgctcggagctatgccgtc	
14438	ggacgtcccctggagatgatcgagc	
14439	ccgcgcacgctgcagtacaagttac	
14440	gagcctgttttgcttctgggcaagg	
14441	cctgttttgcttctgggcaaggagc	
14442	gttttgcttctgggcaaggagcgat	
14443	ttgcttctgggcaaggagcgatttg	
14444	cttctgggcaaggagcgatttgctg	
14445	gagcgatttgctggtgtggatattc	
14446	cgatttgctggtgtggatattcggg	
14447	gatattcgggtccgtgtgaagggtg	
14448	ttgtgctcggagctatgccgtccaa	
14449	gagctatgccgtccaagggtccgct	
14450	cgtccaagggtccgctgcagtccgt	
14451	tgcagtccgtgcaggtcttcggacg	
14452	agtccgtgcaggtcttcggacgcaa	
14453	tggccccactgcaaacggggaaatg	
14454	cactgcaaacggggaaatgggctca	
14455	aacggacgtcccctggagatgatcg	
14456	tccctttccggtcgcggcgctgcg	
14457	gcgcgatcgtggagctcgtgcttgt	
14458	gatcgtggagctcgtgcttgtgctc	
14459	tggccccactgcaaacggggaaatg	
14460	gcctgttttgcttctgggcaaggag	
14461	tcccttttccggtcgcggcgctgcg	
14462	gcgcgatcgtggagctcgtgcttgt	
14463	gatcgtggagctcgtgcttgtgctc	
14464	tggccccactgcaaacggggaaatg	
14465	gcctgttttgcttctgggcaaggag	
14466	tggatattcgggtccgtgtgaaggg	
14467	gatattcgggtccgtgtgaagggtg	
14468	aactggaagatcccacagaggtgac	D12646
14469	aagatcccacagaggtgacttcagg	D12646
14470	tctgtctgccgtggacacagtccga	D12646
14471	ttttaggtcttgctattgagaaaat	D12646
14472	tggcctttactatctaagccttcaa	D12646
14473	ttactatctaagccttcaaacaact	D12646
14474	tactttgcttctctagaaggcattg	D12646
14475	gcttctctagaaggcattgagcctt	D12646
14476	ggcattgagccttctactggagaga	D12646
14477	gagccttctactggagagagaacca	D12646
14478	aactgacctgcctgataagtctaga	D12646
14479	cctgcctgataagtctagaggagcc	D12646
14480	ctcccagtagcaagatcctaaaaga	D12646
14481	ggagccagtccccagtacagtctag	D12646
14482	ccatgtttgtctcttcttctgacca	D12646
14483	ttgtctcttcttctgaccacccaga	D12646
14484	gagctctggccagcaataccagctt	D12646
57021	gctctgtctcaatgatggagggcaa	D13181
57022	gaaggctcccagagatggggagaac	D13181
57023	ggctcccagagatggggagaacctg	D13181
57024	ggtggctacagcaaacactaaggaa	D13181
57025	ctccaaatcaatacactagttgttt	D13181
57026	caaatcaatacactagttgtttcca	D13181
57027	atcaatacactagttgtttccatcc	D13181
57028	catcccaggaccctgtgacaatggt	D13181
57029	tcaatacactagttgtttccatccc	D13181
57030	cactgccacgccagctgcagagaaa	D13181
57031	tgccacgccagctgcagagaaatgg	D13181
57032	cactacacgaggccgaggctcctct	D13181
57033	tacacgaggccgaggctcctctgcc	D13181
57034	ggattcccagaggcaaatctgccgt	D13181
57035	gaggcaaatctgccgtgcttgcttt	D13181
57036	ttgagcctacctttttcccagcttct	D13181
57037	gcactaactgcactttgtcccagct	U02313
57038	acatggtcctggaaattccttattg	U02313
57039	gaaccatccctgagcatcaccgaag	U02313
57040	agcatcaccgaagtgcctgattcct	U02313
57041	accgaagtgcctgattcctcaggcg	U02313
57042	gtgcctgattcctcaggcgacagga	U02313
57043	aggcaggacattccatgcagagccc	U02313
57044	ttagcactgacatcagatgagctct	U02313
57045	ttaaagcaaacctagcacttgtttg	U02313
57046	ttgtttgcttcccttacattcacct	U02313
57047	gcttcccttacattcacctgtgtaa	U02313
57048	cttacattcacctgtgtaatacacc	U02313
57049	cttattgagggtccagacagagcat	U02313
57050	ccagacagagcatccacgaacaaga	U02313
57051	agagcatccacgaacaagaccataa	U02313
57052	gctaactcccaagatacgaatacca	U02313
57053	ccaaatcttctgaagaacctgtctc	U02313
57054	cttctgaagaacctgtctcctgagg	U02313
57055	gggctgacccatccgcttcttgagg	U02313
57056	agccagaactggccatgggagtctg	U02313
57057	agttgcctgtattggagcctggcac	Y00225
57058	tgccttcactgtggctcgagctggg	Y00225
57059	tgacttcatcatgctcaaaggctgt	Y00225
57060	catcatgctcaaaggctgtgtggtg	Y00225
57061	tcttcgtaagtccttgctggttcag	Y00225
57062	taagtccttgctggttcagaccaaa	Y00225
57063	cttgctggttcagaccaaacgtcgg	Y00225
57064	caaatttggccatggtcgcttccag	Y00225
57065	tggtcgcttccagaccatggaggag	Y00225
57066	agcatttatgggaccactcaagaaa	Y00225
57067	accactcaagaaagatcgcattgcc	Y00225
57068	agcttgattccaggaccactttgtg	Y00225
57069	aggctaccatcaccgaacagagatt	Y00225
57070	ctacctcatcaaggatggcaaactg	Y00225
57071	gaacaatgcatctactgactatgac	Y00225
57072	tgcatctactgactatgacttgtct	Y00225
57073	tgacaagagcatcaacccactgggt	Y00225
57074	gagcatcaacccactgggtggcttt	Y00225
57075	tggctttgtgcattatggtgaggtg	Y00225
57076	gaccaatgacttcatcatgctcaaa	Y00225
57077	aaccaagactcttcagtcacgctta	W18298
57078	gactcttcagtcacgcttaggccag	W18298
57079	atatctgggcttggtatttgggcag	W18298
57080	tctgggcttggtatttgggcagtat	W18298
57081	gggatgctgaccacctctgagatct	W18298
57082	ctgaccacctctgagatctgctctg	W18298
57083	gagatctgctctgctgcactcatac	W18298
57084	atctgctctgctgcactcatacctg	W18298
57085	gctgcactcatacctgcttctgcat	W18298
57086	gcactcatacctgcttctgcatgtt	W18298
57087	ctcatacctgcttctgcatgttggt	W18298
57088	gcttctgcatgttggttgacaatgt	W18298
99625	gtcaaccccatgtgctacgcttctt	J04192
99626	cccatgtgctacgcttcttgcaaca	J04192
99627	tgctacgcttcttgcaacaaagcct	J04192
99628	tgcaacaaagccttccgggaccatt	J04192
99629	ttccgggaccatttccgcctgctgt	J04192
99630	gaccatttccgcctgctgttgctct	J04192
99631	tgggacaagcggcgctggcgaaaaa	J04192
99632	ttctcactggtcaaggagaagaagg	J04192
99633	atcctcacctggacaccatataaca	J04192
99634	acctggacaccatataacatcatgg	J04192
99635	tataacatcatggtgctggtgtcta	J04192
99636	atcatggtgctggtgtctacattct	J04192
99637	gtgctggtgtctacattctgcaagg	J04192
99638	gtgtctacattctgcaaggactgtg	J04192
99639	tgcaaggactgtgttccagaaaccc	J04192
99640	ggagaacgcatcagtccaaaagaca	AA152884
99641	agaacgcatcagtccaaaagacaga	AA152884
99642	tgctgttttacaaggcgaggagaag	AA152884
99643	agaagacctttttcatgtgtatggac	AA152884
99644	gaagacctttttcatgtgtatggaca	AA152884
99645	gacctttttcatgtgtatggacatac	AA152884
99646	aagcattgtgcggcttccaaaagcc	AA152884
99647	gcattgtgcggcttccaaaagccaa	AA152884
99648	cattgtgcggcttccaaaagccaat	AA152884
99649	attgtgcggcttccaaaagccaata	AA152884
99650	tgtgcggcttccaaaagccaatatc	AA152884
99651	gtgcggcttccaaaagccaatatct	AA152884
99652	gcatcagtccaaaagacagatgtaa	AA152884
99653	catcagtccaaaagacagatgtaaa	AA152884
99654	gaagataacattccacggtgaagga	AA152884
99655	agataacattccacggtgaaggaga	AA152884
99656	taacattccacggtgaaggagacca	AA152884
99657	aaggaccatgctgttttacaaggcg	AA152884
99658	aggaccatgctgttttacaaggcga	AA152884
99659	ccatgctgttttacaaggcgaggag	AA152884
99660	aacccagacctacgagcgactccat	AA153196
99661	ctacgagcgactccatatacctgcc	AA153196
99662	ctgaagccactgctggaggccggca	AA153196
99663	aagccactgctggaggccggcaccc	AA153196
99664	agtgtttgtgccctatgtgacagaa	AA153196
99665	agaagcctacagaggtcctgcctcg	AA153196
99666	agcctacagaggtcctgcctcggat	AA153196
99667	cagaggtcctgcctcggatgcagct	AA153196
99668	aggtcctgcctcggatgcagcttct	AA153196
99669	ctcggatgcagcttctgaggatgct	AA153196
99670	ggatgcagcttctgaggatgctccc	AA153196
99671	tgcagcttctgaggatgctccctac	AA153196
99672	gcgactccatatacctgcccactgg	AA153196
99673	atctacgatgacagctttttctcca	AA153196
99674	tacgatgacagctttttctccaggg	AA153196
99675	aacggtgttgttgctgctttggaca	AA153196
99676	agcttccaggcccggcactatgtcg	AA153196
99677	gctgctcgatgcacccactatctga	AA153196
99678	cgatgcacccactatctgaagccac	AA153196
99679	tgcacccactatctgaagccactgc	AA153196
99680	catttgggatcccctgtcaacctca	AA153262
99681	ttgggatcccctgtcaacctcacag	AA153262
99682	tttacttaaatctattgttgcaaga	AA153262
99683	tattcctctataccaaagagctct	AA153262
99684	tcctctataccaaagagctctgaa	AA153262
99685	tctataccaaagagctctgaagaa	AA153262
99686	aatgtcaccacactccaagttccaa	AA153262
99687	acagttctggggagctctaaagctc	AA153262
99688	agctctaaagctcttccgaaatatt	AA153262
99689	tctaaagctcttccgaaatattctt	AA153262
99690	gctcttccgaaatattcttctttgg	AA153262
99691	tccgaaatattcttctttggaatgg	AA153262
99692	tcccctgtcaacctcacagacaaga	AA153262

TABLE 1

SEQ ID NO	sequence	DBAxnID
14485	tggccagcaataccagcttcttctc	D12646
14486	gctctcctatccaagaagagtccca	D12646
14487	ctatccaagaagagtcccactgagt	D12646
14488	tttagggccattgtctcttctgtct	D12646
14489	cctacctctcaggtgacgtgctagt	U15976
14490	acatgtatttccgtgaccgcagcgg	U15976
14491	ccacaggcaccttcaagatccagaa	U15976
14492	tcaagatccagaagacccggctgca	U15976
14493	agacccggctgcagcgtgaaggctt	U15976
14494	cagacaggctcttctttctagacct	U15976
14495	ggctcttctttctagacctgaagca	U15976
14496	agggacgctatgtaccctggatga	U15976
14497	gctatgtacccctggatgagagagt	U15976
14498	agagagtccatgcccgcatttgtgc	U15976
14499	tccatgcccgcatttgtgcaggcga	U15976
14500	cccgcatttgtgcaggcgacttctc	U15976
14501	aagccgtgctgagccgcctactggg	U15976
14502	ttgtgcaggcgacttctcactctga	U15976
14503	tggcagccatcgcagatccccacag	U15976
14504	tggaccctaactcaatgtaccagga	U15976
14505	agaaggttcttgcatcctatgctcg	U15976
14506	ttcttgcatcctatgctcggcccat	U15976
14507	tgcgtcttctgccccaggtggatac	U15976
14508	ttctgccccaggtggataccacagg	U15976
14509	tggataccacaggcaccttcaagat	U15976
14510	ccatcaatgcccatccttctaactg	AA118131
14511	atgcccatccttctaactgcatctg	AA118131
14512	gactagattggcctgtgaggaccct	AA118131
14513	ctgtgaggaccctcagttttagcca	AA118131
14514	tgaggaccctcagttttagccacga	AA118131
14515	tcagttttagccacgatgggaaaat	AA118131
14516	gttttagccacgatgggaaaatgct	AA118131
14517	aaatgctggcatcggcttcggagga	AA118131
14518	tgctggcatcggcttcggaggacca	AA118131
14519	tggcatcggcttcggaggaccattt	AA118131
14520	cttcggaggaccatttcattgatat	AA118131
14521	agtgtgagtccccgactttcactgt	AA118131
14522	ctaactgcatctgtatcaagtttga	AA118131
14523	agtccccgactttcactgtggcttg	AA118131
14524	ggaaatactttgccacaggaagtgc	AA118131
14525	gtgcagatgccttggtcagcctttg	AA118131
14526	cagatgccttggtcagcctttggga	AA118131
14527	atgccttggtcagcctttgggacgt	AA118131
14528	tcagcctttgggacgttgacgagtt	AA118131
14529	ggtgcttttccagactagattggcc	AA118131
14530	ccagactagattggcctgtgaggac	AA118131
14531	acttgaaagacccagcaagaacagc	U15977
14532	aagacccagcaagaacagctgaagc	U15977
14533	cagttgtggtacccgacgttgagag	U15977
14534	tacaagggtccttcgaagaactgtg	U15977
14535	atatcaataaagctatcctggacga	U15977
14536	ctatcctggacgacttgttgaaact	U15977
14537	gcattgctgtgcacccggaattatt	U15977
14538	tttctattgacaacggccttctgac	U15977
14539	ttgacaacggccttctgactccaac	U15977
14540	acggccttctgactccaacactgaa	U15977
14541	actatttcaggtcgcagatagatga	U15977
14542	aactgtacgccaccatcaagatcta	U15977
14543	atggctggttacacacgggggacat	U15977
14544	actgtacgccaccatcaagatctaa	U15977
14545	tgccaaatggcaccttgaagattat	U15977
14546	ttgaaaatatctacctgcggagtga	U15977
14547	atatctacctgcggagtgaagccgt	U15977
14548	acctgcggagtgaagccgtggccca	U15977
14549	tggcccaggtgtttgtccacggaga	U15977
14550	aaagcttgcaggcctttctcatagc	U15977
14551	tgcaggcctttctcatagcagttgt	U15977
14552	tttgccaacaatgagcttttcgtct	W56935
57089	tgtctggtcgggacttgttgtaatg	W18298
57090	aatgtccatgcagagtgccaaggat	W18298
57091	tgccaaggattctctcctgatgtta	W18298
57092	tctcctgatgttaggccttgattgc	W18298
57093	aggccttgattgccaatgtgtctgt	W18298
57094	ttgccaatgtgtctgttgatcatgt	W18298
57095	gtgtgttactggggtgctgttttat	W18298
57096	tactggggtgctgttttatgatgta	W18298
57097	tgctccttaccagctgttctagccg	X17459
57098	tccttaccagctgttctagccgatt	X17459
57099	gatctatctctgcagtaactgttct	X17459
57100	ctgcagtaactgttctccctcagtt	X17459
57101	tccctcagttgcgatggaagcaggc	X17459
57102	cgatctgttcagagcctgagcagtt	X17459
57103	tctgttcagagcctgagcagtttgc	X17459
57104	gttcagagcctgagcagtttgcagt	X17459
57105	agcagtttgcagttccgttgtgctt	X17459
57106	ttccgttgtgctttctgaggtccta	X17459
57107	gctttctgaggtcctagattcagga	X17459
57108	ctcttccttacccagctttgtagct	X17459
57109	gctgttctagccgattctcttcaga	X17459
57110	gttctagccgattctcttcagatca	X17459
57111	gccgattctcttcagatcagctaca	X17459
57112	gctcactgtggccttactgatctat	X17459
57113	cactgtggccttactgatctatctc	X17459
57114	tgtggccttactgatctatctctgc	X17459
57115	cttactgatctatctctgcagtaac	X17459
57116	actgatctatctctgcagtaactgt	X17459
57117	gatccacagtccaaaatgcaaaaga	V00829
57118	tccacagtccaaaatgcaaaagatc	V00829
57119	tatcccatgcagtaaacccaatgcg	V00829
57120	tcccatgcagtaaacccaatgcgcc	V00829
57121	ccatgcagtaaacccaatgcgccgg	V00829
57122	atgcagtaaacccaatgcgccgggc	V00829
57123	gcagtaaacccaatgcgccgggcat	V00829
57124	agtaaacccaatgcgccgggcatct	V00829
57125	taaacccaatgcgccgggcatctac	V00829
57126	aacccaatgcgccgggcatctacac	V00829
57127	caatgcgccgggcatctacaccaaa	V00829
57128	cctctgttctcaataaaatccacta	V00829
57129	cacagtccaaaatgcaaaagatctc	V00829
57130	aatgcaaaagatctccagtgtgtga	V00829
57131	tgcaaaagatctccagtgtgtgaac	V00829
57132	acatcatggggctctatcccatgca	V00829
57133	tggggctctatcccatgcagtaaac	V00829
57134	gggctctatcccatgcagtaaaccc	V00829
57135	gctctatcccatgcagtaaacccaa	V00829
57136	tctatcccatgcagtaaacccaatg	V00829
57137	agcctcctgacactcaaagagatac	X03994
57138	cctcctgacactcaaagagatacct	X03994
57139	aggtatcacatcaacaggccctata	X03994
57140	gtatcacatcaacaggccctatacc	X03994
57141	atcacatcaacaggccctataccat	X03994
57142	cacatcaacaggccctataccatgc	X03994
57143	catcaacaggccctataccatgcgg	X03994
57144	tcaacaggccctataccatgcggta	X03994
57145	ggccctataccatgcggtaaacctg	X03994
57146	ctataccatgcggtaaacctggtgt	X03994
57147	aattcctgagtgtcacattatccca	X03994
57148	ttcctgagtgtcacattatcccatg	X03994
57149	tcctgacactcaaagagatacctcc	X03994
57150	caaagagatacctcctggggctgac	X03994
57151	cctgcccacgaaggagtcaaaactg	X03994
57152	gttcctcaagctcctgcctattaag	X03994
57153	agctcctgcctattaagaactgtat	X03994
57154	ctcctgcctattaagaactgtatag	X03994
57155	cctgcctattaagaactgtatagaa	X03994
57156	caaggtatcacatcaacaggcccta	X03994
99693	cctgtcaacctcacagacaagaagt	AA153262
99694	gtcaacctcacagacaagaagttta	AA153262
99695	tttaacagtgcactgcagagtggct	AA153262
99696	agtgcactgcagagtggcttttgaa	AA153262
99697	gcactgcagagtggcttttgaacag	AA153262
99698	tgaacagttcgcttctgaaaatgaa	AA153262
99699	acagttcgcttctgaaaatgaagtt	AA153262
99700	gcaaccaagcaggcataacgtgact	AA153337
99701	caaccaagcaggcataacgtgactc	AA153337
99702	tgaaatgatactgcccatcaacttc	AA153337
99703	gaaatgatactgcccatcaacttca	AA153337
99704	aaatgatactgcccatcaacttcac	AA153337
99705	aatgatactgcccatcaacttcacc	AA153337
99706	atgatactgcccatcaacttcaccg	AA153337
99707	tgatactgcccatcaacttcaccgt	AA153337
99708	gatactgcccatcaacttcaccgtc	AA153337
99709	atactgcccatcaacttcaccgtct	AA153337
99710	tactgcccatcaacttcaccgtctt	AA153337
99711	actgcccatcaacttcaccgtcttt	AA153337
99712	taagtgttccggagaacgagctgga	AA153337
99713	agaacgagctggacagcatgctgca	AA153337
99714	acgagctggacagcatgctgcatga	AA153337
99715	agctggacagcatgctgcatgaaat	AA153337
99716	gctggacagcatgctgcatgaaatg	AA153337
99717	ctggacagcatgctgcatgaaatga	AA153337
99718	tggacagcatgctgcatgaaatgat	AA153337
99719	acagcatgctgcatgaaatgatact	AA153337
99720	ccatatttcctctttgctcctactc	AA153342
99721	atatttcctctttgctcctactctc	AA153342
99722	atttcatccagaattttcagccctg	AA153342
99723	ttcatccagaattttcagccctgcc	AA153342
99724	catccagaattttcagccctgcctt	AA153342
99725	tttcagccctgccttaaccacttga	AA153342
99726	ccctgccttaaccacttgataacat	AA153342
99727	ctgccttaaccacttgataacatgt	AA153342
99728	gccttaaccacttgataacatgtga	AA153342
99729	taaccacttgataacatgtgaaaag	AA153342
99730	ggctcctaacactagagaaagttca	AA153342
99731	ctcctaacactagagaaagttcaag	AA153342
99732	ccgctttacttctgatagattgccc	AA153342
99733	gctttacttctgatagattgccctg	AA153342
99734	tacttctgatagattgccctgaatt	AA153342
99735	cttctgatagattgccctgaatttc	AA153342
99736	tgatagattgccctgaatttcatcc	AA153342
99737	tgccctgaatttcatccagaatttt	AA153342
99738	ccctgaatttcatccagaattttca	AA153342
99739	gaatttcatccagaattttcagccc	AA153342
99740	gcgcaagcgcttgatgcgggatgcc	D00466
99741	cgccgagcgcggtgtgagtgccatc	D00466
99742	atccttctcctgtcctgcaacaaca	D00466
99743	ctgtcctgcaacaacatccatatcc	D00466
99744	tcctgcaacaacatccatatccagc	D00466
99745	tgcaacaacatccatatccagccag	D00466
99746	atccatatccagccaggtggccctg	D00466
99747	catatccagccaggtggccctgtct	D00466
99748	atccagccaggtggccctgtctcaa	D00466
99749	ctctggtggcccttgcttaataaag	D00466
99750	tggtggcccttgcttaataaagatt	D00466
99751	tggcccttgcttaataaagattctc	D00466
99752	cgcccaggcttttggtgaccgcatc	D00466
99753	aatacgcctgcaggcggagatcttc	D00466
99754	gatacaggcctctgtggctaccaac	D00466
99755	catcaccccagtggcccaggagaat	D00466
99756	caccccagtggcccaggagaatcaa	D00466
99757	cccagtggcccaggagaatcaatga	D00466
99758	atgagtatccttctcctgtcctgca	D00466
99759	agtatccttctcctgtcctgcaaca	D00466
99760	tgaccaaccatgagaagatgcccctt	U09010

TABLE 1

SEQ ID NO	sequence	DBAxnID
14553	aatgagcttttcgtctctggcccca	W56935
14554	ggcttctttgatcagttcataggca	W56935
14555	cagttcataggcacagccgccctta	W56935
14556	ttcataggcacagccgcccttattg	W56935
14557	tgtgtactggccatcgttgaccctt	W56935
14558	gtggtcctggtcattggaacctcca	W56935
14559	ctggtcattggaacctccatgggct	W56935
14560	acctccatgggcttcaattctggct	W56935
14561	tccatgggcttcaattctggctatg	W56935
14562	ttcaattctggctatgcgtcaaccc	W56935
14563	aattctggctatgcgtcaaccctgc	W56935
14564	tctggccccaacggcacagctggaa	W56935
14565	ctgcccgtgactttggacctcgcct	W56935
14566	cccaacggcacagctggaatctttg	W56935
14567	gctggaatctttgccacctatccct	W56935
14568	ggaatctttgccacctatccctctg	W56935
14569	acctatccctctggacacttggaca	W56935
14570	tatccctctggacacttggacatgg	W56935
14571	tctggacacttggacatggtcaatg	W56935
14572	cacttggacatggtcaatggcttct	W56935
14573	tgcccgcgtatcacgggtactagac	W56940
14574	accccacagcctcttagtagagaca	W56940
14575	ccagctgtacttctatgcccatctg	W56940
14576	gctgtacttctatgcccatctgggt	W56940
14577	ctatgcccatctgggtaccaactgg	W56940
14578	tctgggtaccaactgggtgagcctg	W56940
14579	gagcctgtgcagggtttggccttca	W56940
14580	cctgtgcagggtttggccttcacca	W56940
14581	ttggccttcaccaaccgtcgactgt	W56940
14582	accactgtcctacgtgccttctcta	W56940
14583	actgtcctacgtgccttctctaagc	W56940
14584	gtcctacgtgccttctctaagccac	W56940
14585	tcgccgcctcatggaaggcttggag	W56940
14586	ccgcctcatggaaggcttggaggcc	W56940
14587	cctcatggaaggcttggaggccttt	W56940
14588	cttggaggcctttgccagagcccgg	W56940
14589	caccactcatgaccagctgtacttc	W56940
14590	cactcatgaccagctgtacttctat	W56940
14591	tcatgaccagctgtacttctatgcc	W56940
14592	tgaccagctgtacttctatgcccat	W56940
14593	gccctgacaggtcacataacagttt	U10406
14594	cacataacagtttgcatcgaccacg	U10406
14595	gatgtcctcagcactgtcctgcaca	U10406
14596	gtcctcagcactgtcctgcacaggt	U10406
14597	actgtcctgcacaggtggacccttg	U10406
14598	gtcctgcacaggtggacccttgtcc	U10406
14599	cttgtcccaaggagaccatgctggg	U10406
14600	gtcccaaggagaccatgctggggtg	U10406
14601	tcttcaggccaggtgcttttctgtc	U10406
14602	tcaggccaggtgcttttctgtcaat	U10406
14603	atctacatcttctacttgagcctcc	U10406
14604	atcttctacttgagcctccatactt	U10406
14605	acagtttgcatcgaccacgcagcgc	U10406
14606	tcttctacttgagcctccatactta	U10406
14607	catagagaccgtgtggttttgttcg	U10406
14608	tccttcccttgcccatttataggca	U10406
14609	ttcccttgcccatttataggcacag	U10406
14610	acagatacactgtctgacaccgctc	U10406
14611	atgaactaactggtgtgtgagagaa	U10406
14612	aactaactggtgtgtgagagaagaa	U10406
14613	agtgatgtcctcagcactgtcctgc	U10406
14614	actgcaggccactactgaatccagc	U19380
14615	ggccactactgaatccagctcatgt	U19380
14616	atagttgattctcgcactgaagggg	U19380
14617	ctaatcttcccaattctttccatgt	U19380
14618	tcctccaagtgttcacaaggtcaaa	U19380
14619	ggtcaaactcagagtcacccagtaa	U19380
14620	actcagagtcacccagtaagctcat	U19380
57157	ggctcgtaagtctcagctccgagat	X60457
57158	taagtctcagctccgagatgacagc	X60457
57159	cgagtcagatgcctggcaggagaaa	X60457
57160	ggccgtcttccaggcccgtgtcctg	X60457
57161	agcttgctatgtcattgaaaaccag	X60457
57162	cattgaaaaccaggcggccgtagag	X60457
57163	cgtagagcagcctgccacacacctt	X60457
57164	acaccttcctgaactgaagccattg	X60457
57165	actgaagccattgtcgtgaacccca	X60457
57166	acactctacaggtgacaagcggatc	X60457
57167	agtcgcatgcctgccatagtcttta	X60457
57168	atgcctgccatagtctttattgtag	X60457
57169	tcagctccgagatgacagcaagcta	X60457
57170	aatgacaccagttttctgaaattgc	X60457
57171	caagctagaggcgctctacatcctc	X60457
57172	gctctacatcctcatggtgctgggc	X60457
57173	catggtgctgggcttcttcggcttc	X60457
57174	cggcttcttcaccctgggcatcatg	X60457
57175	cctgggcatcatgctgagttacatc	X60457
57176	ttacatccgatccaagaagctggag	X60457
57177	caacgtgtacatcgagtcagatgcc	X60457
57178	accacgagctctatggagcccaatg	X70764
57179	tctatggagcccaatgagatgatgc	X70764
57180	aaactgccccggctgtctctcaacg	X70764
57181	cggctgtctctcaacggtgttcggt	X70764
57182	atatcgggcacttccatggccttca	X70764
57183	agcagaggcccaccagtggacttgg	X70764
57184	agaggcccaccagtggacttggctg	X70764
57185	cctgcatcccctgggagaaactgca	X70764
57186	gcatcccctgggagaaactgcagga	X70764
57187	cctgctggcacttgtcccttccagg	X70764
57188	cccctcggtactgcggttgcacaga	X70764
57189	ctcggtactgcggttgcacagagta	X70764
57190	gagatccgcaaggtgctggacgcca	X70764
57191	ctggacgccaacagctgccaaagcg	X70764
57192	gccaacagctgccaaagcgagctgc	X70764
57193	aacagctgccaaagcgagctgcacg	X70764
57194	ctactgtgcgtgcatggcacaccag	X70764
57195	gtgcatggcacaccaggccacgaga	X70764
57196	catggcacaccaggccacgagaact	X70764
57197	ccaggccacgagaactttgtgcagt	X70764
57198	gagaatctcagcgatcctcagttac	W50816
57199	agaatctcagcgatcctcagttact	W50816
57200	gtgatcctgcattgcgaaaacgctt	W50816
57201	tgatcctgcattgcgaaaacgcttg	W50816
57202	gatcctgcattgcgaaaacgcttgc	W50816
57203	atcctgcattgcgaaaacgcttgca	W50816
57204	ctgcattgcgaaaacgcttgcaaac	W50816
57205	attgcgaaaacgcttgcaaacctgg	W50816
57206	cttgcaaacctggagaatcgcttca	W50816
57207	aacctggagaatcgcttcagcggtg	W50816
57208	gacctgagcccagcgcgcacgagga	W50816
57209	acctgagcccagcgcgcacgaggag	W50816
57210	gaatctcagcgatcctcagttactc	W50816
57211	aatctcagcgatcctcagttactcc	W50816
57212	tctcagcgatcctcagttactcccg	W50816
57213	tcagcgatcctcagttactcccgca	W50816
57214	cagcgatcctcagttactcccgcat	W50816
57215	cgatcctcagttactcccgcatctt	W50816
57216	gatcctcagttactcccgcatcttc	W50816
57217	atcctcagttactcccgcatcttct	W50816
57218	atggagcttctcactcgacggcgtg	W50839
57219	gagcttctcactcgacggcgtgcga	W50839
57220	ctttcctgaagaacaggagtacata	W50839
57221	gagtacatatcggccaccaaacact	W50839
57222	gtacatatcggccaccaaacactcg	W50839
57223	cggtcttcccctagagcgagcttgc	W50839
57224	cccctagagcgagcttgccttgatg	W50839
99761	tgccctttccaaagtgaagtctct	U09010
99762	taggcatcacggacgaggcgactga	U09010
99763	ggctcacctacagcaactggaaaaa	U09010
99764	cctacagcaactggaaaaaggatga	U09010
99765	agccaaataaccatggctctgggga	U09010
99766	atgacatttcctgtcaagcttcctt	U09010
99767	tttcctgtcaagcttccttcaaggc	U09010
99768	tcccagcctgaggaaacgagtgcct	U09010
99769	gaaacgagtgcctccatattctcct	U09010
99770	agtgcctccatattctccttgcctc	U09010
99771	tggactctcacttgcttccaaagaa	U09010
99772	agtctctgtgcacagagctccaagg	U09010
99773	tgtgcacagagctccaaggcactgt	U09010
99774	cagagctccaaggcactgtggctat	U09010
99775	tggctatccccaggaatgctgaaga	U09010
99776	tccccaggaatgctgaagagaacaa	U09010
99777	agaacaaggccattcaagaagtggc	U09010
99778	gcattgccttcctaggcatcacgga	U09010
99779	ccttcctaggcatcacggacgaggc	U09010
99780	agcagatcgccctcaagggcggcaa	M76601
99781	cagatcgccctcaagggcggcaaga	M76601
99782	gccaagagccgggacattggtgcca	M76601
99783	caagagccgggacattggtgccaag	M76601
99784	agccgggacattggtgccaagaaga	M76601
99785	cgaggaataacctctccagcagacc	M76601
99786	aggaataacctctccagcagaccct	M76601
99787	tccagcagaccctcgctgtggccaa	M76601
99788	agaccctcgctgtggccaatacaca	M76601
99789	tcgctgtggccaatacacaataaac	M76601
99790	gccaatacacaataaacataacgtt	M76601
99791	caatacacaataaacataacgttcg	M76601
99792	aagcagctgcagaagctggaggcgc	M76601
99793	aaagcgcaatgcagagtcggtgaag	M76601
99794	catcaaggagctcacctaccagaca	M76601
99795	cacctaccagacagaggaagacaag	M76601
99796	aacttaatgcggctgcaggacctgg	M76601
99797	cttaatgcggctgcaggacctggtg	M76601
99798	tgaaggcctacaagcgccaggctga	M76601
99799	ctgcgggccaagagccgggacattg	M76601
99800	gcgcattcgcaatgcggctgacatc	W12506
99801	cattcgcaatgcggctgacatctca	W12506
99802	taccgttggaggcttcttcctggca	W12506
99803	aggcttcttcctggcaggccgaagt	W12506
99804	cttcctggcaggccgaagtatggtg	W12506
99805	agcctctctctttgccagtaacatt	W12506
99806	ctctctctttgccagtaacattgga	W12506
99807	tctctttgccagtaacattggaagt	W12506
99808	ctttgccagtaacattggaagtggt	W12506
99809	cacaggagcagccgcacgtctgcca	W12506
99810	acgtctgccatgggtggctttgaat	W12506
99811	tgtgctgggctggatatttgtcccg	W12506
99812	tcgcaatgcggctgacatctcagtc	W12506
99813	caatgcggctgacatctcagtcatc	W12506
99814	tgcggctgacatctcagtcatcgtc	W12506
99815	ggctgacatctcagtcatcgtcatc	W12506
99816	tgacatctcagtcatcgtcatctac	W12506
99817	catctcagtcatcgtcatctacttc	W12506
99818	ctacttcgtggtggtgatggctgtc	W12506
99819	ggccatgttttccactaatcgtggt	W12506
99820	cattacttgtgtctcctcgtataga	AA153445
99821	attacttgtgtctcctcgtatagag	AA153445
99822	gcgcttgtcatgctattcactcctc	AA153445
99823	cgcttgtcatgctattcactcctca	AA153445
99824	gcttgtcatgctattcactcctcag	AA153445
99825	cttgtcatgctattcactcctcagt	AA153445
99826	ttgtcatgctattcactcctcagtg	AA153445
99827	tgtcatgctattcactcctcagtgg	AA153445
99828	gtcatgctattcactcctcagtggc	AA153445

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
14621	agtcacccagtaagctcatcatgcc	U19380	57225	cctagagcgagcttgccttgatgtt	W50839	99829	tcatgctattcactcctcagtggct	AA153445
14622	ccagtaagctcatcatgccaccatt	U19380	57226	ctagagcgagcttgccttgatgttt	W50839	99830	ttcactcctcagtggctacacagat	AA153445
14623	agctcatcatgccaccattctgagc	U19380	57227	agagcgagcttgccttgatgtttta	W50839	99831	tcactcctcagtggctacacagatg	AA153445
14624	tcatgccaccattctgagcaaaatc	U19380	57228	gagcgagcttgccttgatgttttac	W50839	99832	ctcctcgtatagaggcgcttgtcat	AA153445
14625	caccattctgagcaaaatccttgga	U19380	57229	cgagcttgccttgatgttttacttt	W50839	99833	tcctcgtatagaggcgcttgtcatg	AA153445
14626	atccagctcatgtacagaaacatcc	U19380	57230	agcttctcactcgacggcgtgcgag	W50839	99834	cctcgtatagaggcgcttgtcatgc	AA153445
14627	aacatccaatggaccacaatactct	U19380	57231	ttctcactcgacggcgtgcgagtat	W50839	99835	gtatagaggcgcttgtcatgctatt	AA153445
14628	accacaatactctgtggtatgtgat	U19380	57232	ctcgacggcgtgcgagtattacctc	W50839	99836	tatagaggcgcttgtcatgctattc	AA153445
14629	aaagctacctctgacctctagccca	U19380	57233	ccgccatgcaatttcctctatcaat	W50839	99837	agaggcgcttgtcatgctattcact	AA153445
14630	tagcccagtcaccctctatggaaag	U19380	57234	gccatgcaatttcctctatcaataa	W50839	99838	aggcgcttgtcatgctattcactcc	AA153445
14631	tcacctttatgttatagtctagtta	U19380	57235	ccatgcaatttcctctatcaataat	W50839	99839	ggcgcttgtcatgctattcactcct	AA153445
14632	ccctagctgcgtgttgaaaatgaaa	U19380	57236	atgcaatttcctctatcaataattt	W50839	99840	taggtgcatacggacccggagtgac	AA153481
14633	ttaaaacacagtgtcaactgcagaa	U19380	57237	ttctttcctgaagaacaggagtaca	W50839	99841	gtgcatacggacccggagtgactct	AA153481
14634	acagtctccacgtcgacctaacaga	D32167	57238	gatatctcctgtgcgatcttcactt	X03491	99842	gcttcgagctggacctcatgtagac	AA153481
14635	tccacgtcgacctaacagaatatta	D32167	57239	tcctgtgcgatcttcacttcacctc	X03491	99843	tcgagctggacctcatgtagacata	AA153481
14636	taaactatagctgtccattgctttt	D32167	57240	gcagaaactccttctgcagatgtac	X03491	99844	agctggacctcatgtagacatacct	AA153481
14637	atagctgtccattgcttttggcaaa	D32167	57241	gatgtacactgtcactctcagctcc	X03491	99845	acctcatgtagacatacctgtgcag	AA153481
14638	gctgtccattgcttttggcaaaata	D32167	57242	cggcttccacctgatcctggagatc	X03491	99846	tgtagacatacctgtgcagcaccgt	AA153481
14639	gtccattgcttttggcaaaatatac	D32167	57243	ccacctgatcctggagatctatgtt	X03491	99847	catacctgtgcagcaccgtcaagtc	AA153481
14640	tagtttccatatttatccgcatgta	D32167	57244	tctacaatgatgctcattctccatc	X03491	99848	acctgtgcagcaccgtcaagtccgt	AA153481
14641	ccatatttatccgcatgtaaagggt	D32167	57245	atgatgctcattctccatcacctgg	X03491	99849	tgtgcagcaccgtcaagtccgtaca	AA153481
14642	tatttatccgcatgtaaagggtctg	D32167	57246	cacctggcagcaacgggctctgcca	X03491	99850	gcaccgtcaagtccgtacatgacgt	AA153481
14643	ttatccgcatgtaaagggtctggtt	D32167	57247	gcagcaacgggctctgccaggtcaa	X03491	99851	ccgtcaagtccgtacatgacgtgtc	AA153481
14644	ctcgtatgtacactttagtttccag	D32167	57248	aggtcaacaaggactgcttggtgtc	X03491	99852	gctgcttctagttcagcacagcttc	AA153481
14645	tgtacactttagtttccagaactgt	D32167	57249	tggtgtcccgtgcaaccctgctcct	X03491	99853	tctagttcagcacagcttcaagtcg	AA153481
14646	aatgttgtttcatgtcctgtcaaga	D32167	57250	gcgatcttcacttcacctccagtct	X03491	99854	agttcagcacagcttcaagtcgtgc	AA153481
14647	gttgtttcatgtcctgtcaagaatt	D32167	57251	ccagtcttcctggtgctcatcttgt	X03491	99855	tcagcacagcttcaagtcgtgccaa	AA153481
14648	agtacgagcctggatctacgtgtca	D32167	57252	ttcctggtgctcatcttgttactct	X03491	99856	cagcttcaagtcgtgccaaccgtct	AA153481
14649	acgagcctggatctacgtgtcaaac	D32167	57253	ggacgatcttcttggccatggtgtg	X03491	99857	accgtctgagccgtgtcatcgttga	AA153481
14650	agcctggatctacgtgtcaaactgt	D32167	57254	tggccatggtgtgacctctgttcta	X03491	99858	tgagccgtgtcatcgttgaagagtg	AA153481
14651	gatctacgtgtcaaactgttccatt	D32167	57255	tggtgtgacctctgttctattggaa	X03491	99859	tccgcagcttcgagctggacctcat	AA153481
14652	ctgttccatttgtttatgtaaagtg	D32167	57256	tgttctattggaacctggtagcttc	X03491	99860	atttaatctcatctatagtcctcct	AA153522
14653	atataaactatagctgtccattgct	D32167	57257	tagcttcttctcaacttgggtcaag	X03491	99861	catctatagtcctccttaggaaaat	AA153522
14654	gctctctcaaggatcagttggccct	W57021	57258	taccccctgcttagcaccgatctctg	W54845	99862	gtcttgatcctctcactgcgttcct	AA153522
14655	atcagttggccctagcgattggtaa	W57021	57259	cctgcttagcaccgatctctgcaac	W54845	99863	ttgatcctctcactgcgttccttct	AA153522
14656	ttatgtgcacggagtgacgcagagc	W57021	57260	cagctcatgcatgtacagtggggca	W54845	99864	gcagccagctcctcttcaatcttct	AA153522
14657	atgtgcacggagtgacgcagagccc	W57021	57261	tcatgcatgtacagtggggcactca	W54845	99865	gccagctcctcttcaatcttctgct	AA153522
14658	cctccagaacctggtgctggggaag	W57021	57262	tggggcactcacacaccgcatgctg	W54845	99866	tcttcaatcttctgctcaagatgcg	AA153522
14659	tccagaacctggtgctggggaagta	W57021	57263	gggcactcacacaccgcatgctgtg	W54845	99867	tcaatcttctgctcaagatgcgctc	AA153522
14660	cagaacctggtgctggggaagtacg	W57021	57264	actcacacaccgcatgctgtgtgcc	W54845	99868	atcttctgctcaagatgcgctctga	AA153522
14661	atctgtgagactcccgagcagatcg	W57021	57265	cggctacctggatggaagggcagat	W54845	99869	tctgctctagcttctgtagctcgcg	AA153522
14662	ctgtgagactcccgagcagatcgca	W57021	57266	tgtcccagtggtgacacgtggcacc	W54845	99870	gggcctccgtttgcatcttgatttt	AA153522
14663	gtgagactcccgagcagatcgcaaa	W57021	57267	tcccagtggtgacacgtggcacctt	W54845	99871	cctccgtttgcatcttgattttgct	AA153522
14664	ctcccgagcagatcgcaaacctgga	W57021	57268	tggtgacacgtggcaccttgtaggg	W54845	99872	ttcccaaagcccattctgaggctct	AA153522
14665	cgagcagatcgcaaacctggaggag	W57021	57269	gtgacacgtggcaccttgtaggggt	W54845	99873	attctgaggctctccatgtcaaaag	AA153522
14666	atgattcttaagcgagctgcctggg	W57021	57270	cttagcaccgatctctgcaacagct	W54845	99874	ctctccatgtcaaaagtctcggtct	AA153522
14667	gattcttaagcgagctgcctgggtg	W57021	57271	tagcaccgatctctgcaacagctca	W54845	99875	tccatgtcaaaagtctcggtctctc	AA153522
14668	gtgccctctgggttctatgtcggct	W57021	57272	accgatctctgcaacagctcatgca	W54845	99876	tcaaaagtctcggtctctcgctctt	AA153522
14669	gccctctgggttctatgtcggctct	W57021	57273	cgatctctgcaacagctcatgcatg	W54845	99877	tgtctctccaggagagtcttgatcc	AA153522
14670	tgggttctatgtcggctcttatgtg	W57021	57274	atctctgcaacagctcatgcatgta	W54845	99878	ctctccaggagagtcttgatcctct	AA153522
14671	gtcggctcttatgtgcacggagtga	W57021	57275	ctctgcaacagctcatgcatgtaca	W54845	99879	agagtcttgatcctctcactgcgtt	AA153522
14672	cggctcttatgtgcacggagtgacg	W57021	57276	ctgcaacagctcatgcatgtacagt	W54845	99880	ccatccattactaatgttttagtgc	AA153540
14673	gctcttatgtgcacggagtgacgca	W57021	57277	gcaacagctcatgcatgtacagtgg	W54845	99881	catccattactaatgttttagtgca	AA153540
14674	atcatttgcaactgagtggacttca	L23108	57278	gacacggatcctgccaactctgctc	Z22703	99882	tctctaacgcactgtctccaagagt	AA153540
14675	gacttcaatttctgtagacccaatt	L23108	57279	cctgccaactctgctctacagatca	Z22703	99883	tctaacgcactgtctccaagagtga	AA153540
14676	tctgacacagagcttatgaaatgga	L23108	57280	atctctagcttgcaatgacatgagt	Z22703	99884	ctaacgcactgtctccaagagtgat	AA153540
14677	ttttagcataccttagctctttgta	L23108	57281	gcaaacggctacgagtgtgaactgt	Z22703	99885	taacgcactgtctccaagagtgatt	AA153540
14678	agtatgtcgtcatgttccatgctgc	L23108	57282	ccccgagcgacacaccagaagttat	Z22703	99886	acgcactgtctccaagagtgattag	AA153540
14679	tcgtcatgttccatgctgcatagct	L23108	57283	cgagcgacacaccagaagttatgac	Z22703	99887	cgcactgtctccaagagtgattagg	AA153540
14680	tgttccatgctgcatagctctttaa	L23108	57284	gcgacacaccagaagttatgactac	Z22703	99888	gcactgtctccaagagtgattagga	AA153540
14681	aggtttttctctttctgctcagctg	L23108	57285	actgttctgtcgcacccagtggtac	Z22703	99889	actgtctccaagagtgattaggaac	AA153540
14682	ttctctttctgctcagctgcaacta	L23108	57286	gttctgtcgcacccagtggtacctg	Z22703	99890	ctgtctccaagagtgattaggaaca	AA153540
14683	ttctgctcagctgcaactaataaca	L23108	57287	ctgtcgcacccagtggtacctgagg	Z22703	99891	tgtctccaagagtgattaggaacat	AA153540
14684	tcagctgcaactaataacaaccttg	L23108	57288	tcgcacccagtggtacctgaggatt	Z22703	99892	tttagtgcagggcaaacaggtaact	AA153540
14685	gcaactaataacaaccttggagagc	L23108	57289	ccagtggtacctgaggattgacaaa	Z22703	99893	gtaactctaggtgcctttggacatg	AA153540
14686	tgtagacccaattatcctgtttggt	L23108	57290	aactctgctctacagatcatgcttc	Z22703	99894	taactctaggtgcctttggacatga	AA153540
14687	cccaattatcctgtttggttctgat	L23108	57291	gaacagctacaacatcatggaaatc	Z22703	99895	actctaggtgcctttggacatgaag	AA153540
14688	tttactgatttgttccatgttggca	L23108	57292	gctctacagatcatgcttccacctc	Z22703	99896	ctctaggtgcctttggacatgaaga	AA153540

TABLE 1

SEQ ID NO	sequence	DBAxnID
14689	tggcttgcaactgtcagcacatggc	L23108
14690	gcaactgtcagcacatggcataagt	L23108
14691	caattcacatgtgagccactgctta	L23108
14692	ttggctacagcaaggccagatatca	L23108
14693	ttactctctgacacagagcttatga	L23108
14694	gcattctaaactgtttgaagaacct	AA168363
14695	agaacctgaagatcccagcaacagg	AA168363
14696	tcagccatagcggtcgttatatgat	AA168363
14697	agccatagcggtcgttatatgatga	AA168363
14698	ccatagcggtcgttatatgatgact	AA168363
14699	tggagaacaggcccgtggagacata	AA168363
14700	gaacaggcccgtggagacataccag	AA168363
14701	tacatgaatacctcagaagtaaact	AA168363
14702	aagtaaactttgctcactgtatgaa	AA168363
14703	gtaaactttgctcactgtatgaaaa	AA168363
14704	aaactttgctcactgtatgaaaacg	AA168363
14705	actttgctcactgtatgaaaacgac	AA168363
14706	aacctgaagatcccagcaacaggtc	AA168363
14707	cctgaagatcccagcaacaggtcat	AA168363
14708	aagatcccagcaacaggtcatttttt	AA168363
14709	atcatctcctctatttctgatgtaa	AA168363
14710	catctcctctatttctgatgtaaaa	AA168363
14711	tctcctctatttctgatgtaaaatt	AA168363
14712	tgtaaaattcagccatagcggtcgt	AA168363
14713	aaattcagccatagcggtcgttata	AA168363
14714	aagggcaagcctctgattagccgaa	W57084
14715	aagcctctgattagccgaaactaca	W57084
14716	cgagtgcacttcctgtggatcaaac	W57084
14717	cacttcctgtggatcaaacacagca	W57084
14718	ttggtggccaccacgctgaagaacg	W57084
14719	gtggccaccacgctgaagaacgcta	W57084
14720	gccaccacgctgaagaacgctaatg	W57084
14721	aacgctaatgcctctctggtgtact	W57084
14722	ctggtgtactcctttctgtacaaga	W57084
14723	gtgtactcctttctgtacaagactg	W57084
14724	tactcctttctgtacaagactgtgg	W57084
14725	tcctttctgtacaagactgtggagg	W57084
14726	cctctgattagccgaaactacaaag	W57084
14727	ctgattagccgaaactacaaaggtg	W57084
14728	attagccgaaactacaaaggtgatg	W57084
14729	gagattgaccacttcatgccgctgc	W57084
14730	attgaccacttcatgccgctgctta	W57084
14731	gaccacttcatgccgctgcttatgc	W57084
14732	cacttcatgccgctgcttatgcacg	W57084
14733	ttcatgccgctgcttatgcacgtcg	W57084
14734	gaaacccgctgttgcccctcgacat	W56929
14735	cgctgttgcccctcgacatggcctg	W56929
14736	ggcaatgaccccaatgtctcactag	W56929
14737	aatgaccccaatgtctcactagtgc	W56929
14738	gaccccaatgtctcactagtgccga	W56929
14739	aatgtctcactagtgccgaaagacg	W56929
14740	gtctcactagtgccgaaagacggaa	W56929
14741	tcactagtgccgaaagacggaacag	W56929
14742	agttccgatgcctcaaccgctcagc	W56929
14743	ccggaatcgcagccactgccggctt	W56929
14744	gaatcgcagccactgccggcttcac	W56929
14745	tcgcagccactgccggcttcacaga	W56929
14746	tgttgcccctcgacatggcctgcag	W56929
14747	ccctcgacatggcctgcagagtctc	W56929
14748	tcgacatggcctgcagagtctcgga	W56929
14749	acatggcctgcagagtctcggaaaa	W56929
14750	tggcctgcagagtctcggaaaagtt	W56929
14751	gccaaccttccaagcctgaaagccg	W56929
14752	cttccaagcctgaaagccgagaaca	W56929
14753	aaaggcaatgaccccaatgtctcac	W56929
14754	acaatggtcagatccaactatggca	M74515
14755	gtcagatccaactatggcagttttt	M74515
14756	agcctgagttggttgcgcaaaaatg	M74515
57293	ctacagatcatgcttccacctcgtc	Z22703
57294	ccacctcgtctgtctagtgggcact	Z22703
57295	cgtctgtctagtgggcactatatct	Z22703
57296	agtgggcactatatctctagcttgc	Z22703
57297	gggcactatatctctagcttgcaat	Z22703
57298	cactatatctctagcttgcaatgac	Z22703
57299	tgagctcagctgggacctgatgtcc	W35837
57300	gctcagctgggacctgatgtccagc	W35837
57301	gttactctctgcaaagacatgcagt	W35837
57302	actctctgcaaagacatgcagtcct	W35837
57303	gacatgcagtcctttagtacaccag	W35837
57304	atgcagtcctttagtacaccaggta	W35837
57305	cagtcctttagtacaccaggtagca	W35837
57306	tcctttagtacaccaggtagcaagt	W35837
57307	tttagtacaccaggtagcaagtggg	W35837
57308	agtacaccaggtagcaagtgggcag	W35837
57309	tgtagccattattgctatctaggtc	W35837
57310	tagccattattgctatctaggtcgg	W35837
57311	cagctgggacctgatgtccagcaag	W35837
57312	agccattattgctatctaggtcgga	W35837
57313	cctgatgtccagcaagcaatcgata	W35837
57314	gatgtccagcaagcaatcgatagat	W35837
57315	gtccagcaagcaatcgatagatgct	W35837
57316	agatgcttggcttttatcgttactc	W35837
57317	gcttttatcgttactctctgcaaag	W35837
57318	tttatcgttactctctgcaaagaca	W35837
57319	atcgttactctctgcaaagacatgc	W35837
57320	attcacctgacacacgtcgtcctgc	W13903
57321	tcacctgacacacgtcgtcctgcgt	W13903
57322	tcgcccgcagtctactaggtgataa	W13903
57323	gcccgcagtctactaggtgataaat	W13903
57324	ccgcagtctactaggtgataaataa	W13903
57325	taaataactactgtcaactcgatgc	W13903
57326	taactactgtcaactcgatgctgcc	W13903
57327	tactgtcaactcgatgctgccacac	W13903
57328	ctgtcaactcgatgctgccacacgg	W13903
57329	gtcaactcgatgctgccacacggtc	W13903
57330	taagctctagctcatcaagatgcat	W13903
57331	agctctagctcatcaagatgcatga	W13903
57332	gacacacgtcgtcctgcgtgtggaa	W13903
57333	cacacgtcgtcctgcgtgtggaata	W13903
57334	cacgtcgtcctgcgtgtggaatatg	W13903
57335	ctataatatggacgctccgtgtgga	W13903
57336	ataatatggacgctccgtgtggatg	W13903
57337	aatatggacgctccgtgtggatgct	W13903
57338	ctccgtgtggatgctcgcccgcagt	W13903
57339	atgctcgcccgcagtctactaggtg	W13903
57340	aaagcgttcatcatcagaaagttca	X83577
57341	ttcatcatcagaaagttcaaaggca	X83577
57342	ctgcgtggctagcagtgtaggtaca	X83577
57343	ttttccaattatggtctcaccttgt	X83577
57344	aattatggtctcaccttgtttctca	X83577
57345	tcctttcttggcatgtaacatgtac	X83577
57346	tttcttggcatgtaacatgtacgta	X83577
57347	taacatgtacgtatttctgaaatat	X83577
57348	atccctgttattttagctgccttat	X83577
57349	gttattttagctgccttattgggag	X83577
57350	attttagctgccttattgggagaga	X83577
57351	ttagctgccttattgggagagaagt	X83577
57352	ttcaaaggcaccaagttctcacttt	X83577
57353	ttaaccatcctagtgactttgcttt	X83577
57354	cagtttttactgtgtggccactggt	X83577
57355	tgtggccactggtttaagcaatgtt	X83577
57356	tgttttgctcattcagtttgagggg	X83577
57357	gctcattcagtttgaggggacagcg	X83577
57358	gagactcgtgttctgcgtggctagc	X83577
57359	gttctgcgtggctagcagtgtaggt	X83577
57360	ttccgatgccattaggctcttttcc	W14755
99897	tctaggtgcctttggacatgaagag	AA153540
99898	aggtgcctttggacatgaagaggag	AA153540
99899	tgcctttggacatgaagaggaggtc	AA153540
99900	atcagaaccttggtctgatcatcct	AA153549
99901	agaaccttggtctgatcatcctgtt	AA153549
99902	gagccactttagacaacaccacctc	AA153549
99903	ccctggactccagggctgacagctt	AA153549
99904	tggactccagggctgacagcttcga	AA153549
99905	actccagggctgacagcttcgaaaa	AA153549
99906	ctgacagcttcgaaaaagggatcag	AA153549
99907	atcacaggcaggaactcgaggcagg	AA153549
99908	aggaactcgaggcaggccgagactt	AA153549
99909	aactcgaggcaggccgagacttgag	AA153549
99910	tcgaggcaggccgagacttgagcca	AA153549
99911	caggccgagacttgagccagaaggt	AA153549
99912	accttggtctgatcatcctgttgtc	AA153549
99913	gtctgatcatcctgttgtccttatc	AA153549
99914	tgatcatcctgttgtccttatcaga	AA153549
99915	tcatcctgttgtccttatcagattc	AA153549
99916	tgttgtccttatcagattcccagtt	AA153549
99917	ccttatcagattcccagttaaggag	AA153549
99918	taggcaccctgagagccactttaga	AA153549
99919	ccctgagagccactttagacaacac	AA153549
99920	ctgatatcagcactggatcgtagaa	M21495
99921	tgctgatttttgaccttgtattcaa	M21495
99922	gtattaaccaacagcagacttccag	M21495
99923	accaacagcagacttccaggatttc	M21495
99924	ggatttcctgaggctggcaagggtt	M21495
99925	accagttaccactccttcttgccag	M21495
99926	taccactccttcttgccagtctaac	M21495
99927	tccttcttgccagtctaacagggtg	M21495
99928	caccatcggttgttagttgccttga	M21495
99929	gaacgtttgcatcgacacctgtaaa	M21495
99930	ttgcatcgacacctgtaaatgtatt	M21495
99931	cccagcaacacgtcattgtgtaaag	M21495
99932	tattcaagttaactgctcccttggt	M21495
99933	ctgctcccttggtatatgtttaata	M21495
99934	tatatgtttaataccctgtgcatat	M21495
99935	tttagtccttagttcatgtggctcg	M21495
99936	ccttagttcatgtggctcggtcact	M21495
99937	ggatctctgtgagcaccactgagtg	M21495
99938	ctgtgagcaccactgagtgatctgt	M21495
99939	gcaccactgagtgatctgtgcaggg	M21495
99940	gtcccttcagagaagcagggcttcg	AA153526
99941	cttcgaagcagccagcatcaaggag	AA153526
99942	gcctctgtgctgcacaacctgaggg	AA153526
99943	ctctgtgctgcacaacctgagggag	AA153526
99944	gctgcacaacctgagggagcgatac	AA153526
99945	tgcacaacctgagggagcgatactt	AA153526
99946	cacaacctgagggagcgatacttct	AA153526
99947	gatacttctcaggcctcatctatac	AA153526
99948	tcaggcctcatctatacctactctg	AA153526
99949	aggcctcatctatacctactctggc	AA153526
99950	cctactctggcctcttctgtgtggt	AA153526
99951	ggcctcttctgtgtggtggtcaacc	AA153526
99952	tcgaagcagccagcatcaaggagga	AA153526
99953	tcttctgtgtggtggtcaaccccta	AA153526
99954	agcagccagcatcaaggaggagaag	AA153526
99955	cagccagcatcaaggaggagaaggg	AA153526
99956	gactgacgtgcctcaatgaggcctc	AA153526
99957	cgtgcctcaatgaggcctctgtgct	AA153526
99958	tgcctcaatgaggcctctgtgctgc	AA153526
99959	cctcaatgaggcctctgtgctgcac	AA153526
99960	aggcctctgtgctgcacaacctgag	AA153526
99961	acctcacagttgcgcgtttcgtgga	W12548
99962	ctcacagttgcgcgtttcgtggacg	W12548
99963	tctgtgacatcccaacgcgtgcctc	W12548
99964	tgtgacatcccaacgcgtgcctcaa	W12548

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID
14757	agcctaccatgaactatgagaaact	M74515	57361	tccgatgccattaggctcttttcca	W14755	99965	acatcccaacgcgtgcctcaagatg	W12548
14758	ttagccgtgcattacggtattatta	M74515	57362	ttttccagtcatcgttcttgggtga	W14755	99966	atcccaacgcgtgcctcaagatggc	W12548
14759	cagaactgaaccgtctggtcataga	M74515	57363	ttccagtcatcgttcttgggtgatg	W14755	99967	cccaacgcgtgcctcaagatggcag	W12548
14760	tgaaccgtctggtcatagagtgtga	M74515	57364	agtcatcgttcttgggtgatggaat	W14755	99968	caacgcgtgcctcaagatggcagtc	W12548
14761	ggatgcagctgcatgggattgccca	M74515	57365	catcgttcttgggtgatggaatcct	W14755	99969	gcgtgcctcaagatggcagtcacct	W12548
14762	atgggattgcccagccagtcacggc	M74515	57366	tagccagtcattgctgataggatgt	W14755	99970	atctctgagcagtttacggcctatg	W12548
14763	tcacggcagtagcactggcagccac	M74515	57367	gccagtcattgctgataggatgtag	W14755	99971	gagcagtttacggcctatgttccgc	W12548
14764	cagtagcactggcagccacctctct	M74515	57368	agatattactgctctgactcctagc	W14755	99972	gcagtttacggcctatgttccgccg	W12548
14765	ttgctctaacctttattactgaatt	M74515	57369	gatatgtggctccatcctgtcctca	W14755	99973	cacagttgcgcgtttcgtggacgat	W12548
14766	tccaactatggcagtttttgctaga	M74515	57370	atatgtggctccatcctgtcctcac	W14755	99974	cagttgcgcgtttcgtggacgatgt	W12548
14767	tgctagaacttcttactgacaagga	M74515	57371	atgtggctccatcctgtcctcactg	W14755	99975	tttcgtggacgatgtcatgaaggag	W12548
14768	aacttcttactgacaaggatgctcg	M74515	57372	cgatgccattaggctcttttccagt	W14755	99976	tgagcagatgctcaaccgtgcagaa	W12548
14769	ttactgacaaggatgctcgagactg	M74515	57373	gatgccattaggctcttttccagtc	W14755	99977	cagatgctcaaccgtgcagaacaag	W12548
14770	atgctcgagactgtatttcttgggt	M74515	57374	gccattaggctcttttccagtcatc	W14755	99978	gatgctcaaccgtgcagaacaagaa	W12548
14771	gtatttcttgggttggtgatgaagg	M74515	57375	cattaggctcttttccagtcatcgt	W14755	99979	tgctcaaccgtgcagaacaagaata	W12548
14772	ttaagctaaatcagcctgagttggt	M74515	57376	attaggctcttttccagtcatcgtt	W14755	99980	ctcaaccgtgcagaacaagaatagc	W12548
14773	taaatcagcctgagttggttgcgca	M74515	57377	taggctcttttccagtcatcgttct	W14755	99981	ctgaggctcgctctgccgtacgcta	AA153741
14774	actggcgaccatgacaatgttcttg	M74516	57378	gctcttttccagtcatcgttcttgg	W14755	99982	gctctgccgtacgctaggcttggta	AA153741
14775	tttctgacaattgtattgtgaggat	M74516	57379	ctcttttccagtcatcgttcttggg	W14755	99983	atacggcgccatccgacatcgacct	AA153741
14776	agcaggacctttttgtactcagtgag	M74516	57380	catccaggtgaccctgtcaaggaag	W14562	99984	tacggcgccatccgacatcgacctg	AA153741
14777	acctttttgtactcagtgaggctatg	M74516	57381	ctactctcagcccagcgtgtcagca	W14562	99985	acggcgccatccgacatcgacctga	AA153741
14778	cctgtgctgcgactctctcacaata	M74516	57382	gatgctcaactagatcagtatctcc	W14562	99986	cggcgccatccgacatcgacctgaa	AA153741
14779	ctctctcacaatattgtcaattctg	M74516	57383	ctcaactagatcagtatctcctcgc	W14562	99987	ggcgccatccgacatcgacctgaag	AA153741
14780	catttgacagactattccattctct	M74516	57384	caactagatcagtatctcctcgctt	W14562	99988	gcgccatccgacatcgacctgaaga	AA153741
14781	acagactattccattctcttttgta	M74516	57385	gatcagtatctcctcgcttttcgta	W14562	99989	cgccatccgacatcgacctgaagaa	AA153741
14782	gctcctctagcttatctgtataaag	M74516	57386	acctgtcgccaatctgacaaacttc	W14562	99990	gccatccgacatcgacctgaagaac	AA153741
14783	gttacctgcgagactgtactctggc	M74516	57387	ctgtcgccaatctgacaaacttcgg	W14562	99991	ccatccgacatcgacctgaagaacc	AA153741
14784	actgtactctggcctcattttctat	M74516	57388	cgccaatctgacaaacttcggaacg	W14562	99992	catccgacatcgacctgaagaaccg	AA153741
14785	ctctggcctcattttctattttaca	M74516	57389	ccaatctgacaaacttcggaacgtg	W14562	99993	tgccgtacgctaggcttggtaggaa	AA153741
14786	tgtgagactgctctgtgccttcctt	M74516	57390	tctgacaaacttcggaacgtgaggc	W14562	99994	gccgtacgctaggcttggtaggaag	AA153741
14787	ctgtgccttccttccatcatgactt	M74516	57391	tgacaaacttcggaacgtgaggctt	W14562	99995	gggaacaacgactgccactacgtgg	AA153741
14788	cgagcactttgaggcgctggatttt	M74516	57392	actctcagcccagcgtgtcagcagg	W14562	99996	ggaacaacgactgccactacgtggg	AA153741
14789	ctttgaggcgctggattttaagata	M74516	57393	agcccagcgtgtcagcaggcccatg	W14562	99997	gaacaacgactgccactacgtgggt	AA153741
14790	tttggcaaactcagtgcatttgggt	M74516	57394	cagcgtgtcagcaggcccatgatgc	W14562	99998	tacaaatacggcgccatccgacatc	AA153741
14791	aaactcagtgcatttgggtttctga	M74516	57395	gtcagcaggcccatgatgctcaact	W14562	99999	caaatacggcgccatccgacatcga	AA153741
14792	aattgcttttgtatgcagagcagga	M74516	57396	cagcaggcccatgatgctcaactag	W14562	100000	aatacggcgccatccgacatcgacc	AA153741
14793	atgcagagcaggacctttttgtactc	M74516	57397	aggcccatgatgctcaactagatca	W14562	100001	cgttcagccttcctggctgccatgt	W18507
14794	ggcgctcaccaaaacatcatcccat	U09964	57398	gcccatgatgctcaactagatcagt	W14562	100002	ttcctggctgccatgtagaggttgc	W18507
14795	atcccatcgtccactggggctgcca	U09964	57399	atgatgctcaactagatcagtatct	W14562	100003	tttagctccacttcttcagcttccc	W18507
14796	atccttgcttacacagaggaccagg	U09964	57400	aaccagctgcagaaatcttgataaa	X82786	100004	tcttcagcttcccacttttcaaact	W18507
14797	aacggcaatccccattcttccatct	U09964	57401	aaatcttgataaagcctcaggaaga	X82786	100005	tcccacttttcaaactggccagtga	W18507
14798	aatccccattcttccatctttgatg	U09964	57402	tttgagctttcctggtcatactctc	X82786	100006	tcaaactggccagtgatgtctacag	W18507
14799	tccatctttgatgctaaggctggaa	U09964	57403	tcctggtcatactctcttcagacgc	X82786	100007	tggccagtgatgtctacaggggctc	W18507
14800	ctcaatgacaacttcgtgaagcttg	U09964	57404	tggtcatactctcttcagacgccaa	X82786	100008	atgtctacaggggctcggaggatgt	W18507
14801	ttcgtgaagcttgttgcctggtacg	U09964	57405	atcaccagggatctcagcgcaatta	X82786	100009	ttttcatactgaagagcagactcca	W18507
14802	aagcttgttgcctggtacgacaacg	U09964	57406	accagggatctcagcgcaattacag	X82786	100010	agagcagactccatagtgttgctgg	W18507
14803	gttgcctggtacgacaacgaatatg	U09964	57407	ctcagcgcaattacagtttaggggt	X82786	100011	gcagactccatagtgttgctggaat	W18507
14804	cgctacatgtttagccgagagaagt	U09964	57408	tgtcctatccaataaagctctgaaa	X82786	100012	gactccatagtgttgctggaatagt	W18507
14805	tcctgacttcggcttccactcaaag	U09964	57409	cctatccaataaagctctgaaattc	X82786	100013	ctggctgccatgtagaggttgcact	W18507
14806	gtggacctgacctgccgcctggcca	U09964	57410	atccaataaagctctgaaattcgct	X82786	100014	gaatagtccagtgtgtctttccatg	W18507
14807	aagcctgcttcttactcggctatca	U09964	57411	taaagctctgaaattcgctgccaaa	X82786	100015	aggttgcactgactgaccaaagccc	W18507
14808	gcttcttactcggctatcacggagg	U09964	57412	aaactagagtcgctttggacagtga	X82786	100016	tgactgaccaaagcccgcatctctt	W18507
14809	gctatcacggaggctgtgaaagctg	U09964	57413	aaagctctgaaattcgctgccaaaa	X82786	100017	aaagcccgcatctcttccatgacag	W18507
14810	aaagctgcagccaagggacctttgg	U09964	57414	ctagagtcgctttggacagtgaacc	X82786	100018	atgttatcacacaaggcttcgtgaa	W18507
14811	aagggacctttggctggcatccttg	U09964	57415	acattgtatgcaccaagaagttaag	X82786	100019	ttatcacacaaggcttcgtgaactg	W18507
14812	cctttggctggcatccttgcttaca	U09964	57416	tgtggttttcacctccagtgtaaag	X82786	100020	tcacacaaggcttcgtgaactgcgg	W18507
14813	gctggcatccttgcttacacagagg	U09964	57417	tttcacctccagtgtaaagatgaac	X82786	100021	tcgtgaactgcggtcttcttgccat	W18507
14814	agcagactcttgttagaccggacca	M60358	57418	cacctccagtgtaaagatgaactgt	X82786	100022	actccattcggaagcagtataaact	AA153754
14815	cagactcttgttagaccggaccatg	M60358	57419	taaatactactgctactgcctgagt	X82786	100023	cgaccctctcaggccagcagagtga	AA153754
14816	ctggtcaggggccatgcaaagatcc	M60358	57420	ctgctactgcctgagtttaaggaag	X82786	100024	tcctacctccgaagcatttcacaga	AA153754
14817	gatccatggtcatcttccaccagga	M60358	57421	tagacgcattttctcacctagcgcc	W15003	100025	ctccgaagcatttcacagaagatgg	AA153754
14818	acctcttgcagatggatagaggagg	M60358	57422	cgcattttctcacctagcgccattt	W15003	100026	gcaatgtcctgcagcttgccaacct	AA153754
14819	ctcttgcagatggatagaggaggcc	M60358	57423	ggctatgcacggacccttctctgga	W15003	100027	atgtcctgcagcttgccaacctgcc	AA153754
14820	aggccttcttaagtgtttcattcat	M60358	57424	ctatgcacggacccttctctggagc	W15003	100028	agcttgccaacctgccagatctata	AA153754
14821	gccttcttaagtgtttcattcatct	M60358	57425	gcacggacccttctctggagcgaca	W15003	100029	ttgccaacctgccagatctatacaa	AA153754
14822	gtgttcacagtgcacttgggaccga	M60358	57426	acggacccttctctggagcgacact	W15003	100030	ccaacctgccagatctatacaaagt	AA153754
14823	gttcacagtgcacttgggaccgagg	M60358	57427	acccttctctggagcgacactctgc	W15003	100031	acctgccagatctatacaaagtctt	AA153754
14824	tcacagtgcacttgggaccgaggcc	M60358	57428	ctctggagcgacactctgctcctcg	W15003	100032	atctatacaaagtctttgagcggtg	AA153754

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
14825	acagtgcacttgggaccgaggcccg	M60358	57429	agcgacactctgctcctcgcgattc	W15003	100033	tatacaaagtctttgagcggtgtta	AA153754
14826	cttgttagaccggaccatggatcct	M60358	57430	ctcctcgcgattctgggctttgatc	W15003	100034	tctcaggccagcagagtgacatgcc	AA153754
14827	tgttagaccggaccatggatcctag	M60358	57431	tcaagagccatgtggcctgtgtgct	W15003	100035	gtgacatgcctggctccacgtcaaa	AA153754
14828	ttagaccggaccatggatcctagtg	M60358	57432	aagagccatgtggcctgtgtgctct	W15003	100036	acatgcctggctccacgtcaaagcc	AA153754
14829	tagtgtcctgctcctccttgctgtc	M60358	57433	cattttctcacctagcgccatttca	W15003	100037	tgcctggctccacgtcaaagccctg	AA153754
14830	tgctgtccttctgagcttatttcta	M60358	57434	ttctcacctagcgccatttcaaggg	W15003	100038	ctggctccacgtcaaagccctggaa	AA153754
14831	ctgagcttatttctactcctggtca	M60358	57435	ctcacctagcgccatttcaagggat	W15003	100039	acattatctataaagccttccgctc	AA153754
14832	atttctactcctggtcaggggccat	M60358	57436	gatatcgacatagcttctaagtaca	W15003	100040	ttatctataaagccttccgctcaca	AA153754
14833	ttctactcctggtcaggggccatgc	M60358	57437	tatcgacatagcttctaagtacatt	W15003	100041	tctataaagccttccgctcacacct	AA153754
14834	ttggagcagcaaccgactgaagaat	L06443	57438	catagcttctaagtacattggagct	W15003	100042	aagtaccacatagacctagatctac	AA153726
14835	cagatactccagggtaactgtccag	L06443	57439	atcattggctatgcacggacccttc	W15003	100043	accacatagacctagatctacactt	AA153726
14836	aaattactgtcatggagagtgcccc	L06443	57440	cattggctatgcacggacccttctc	W15003	100044	tgggacaacattcacggacgtgctg	AA153726
14837	caattatgctttcatgcaggctctg	L06443	57441	atcgtggtaactccttgcatggaaa	W14172	100045	acaacattcacggacgtgctgggaa	AA153726
14838	tgctttcatgcaggctctgatgcat	L06443	57442	gtggtaactccttgcatggaaataa	W14172	100046	cattcacggacgtgctgggaaacac	AA153726
14839	catgcaggctctgatgcatatggct	L06443	57443	atctgttctcgcctggccagagatg	W14172	100047	ttcacggacgtgctgggaaacactt	AA153726
14840	ggctctgatgcatatggctgacccc	L06443	57444	tctgttctcgcctggccagagatga	W14172	100048	gggaaacacttatccatagcgacca	AA153726
14841	tatggctgaccccaaggtccccaag	L06443	57445	tctcgcctggccagagatgagcgtt	W14172	100049	gaaacacttatccatagcgaccaca	AA153726
14842	catgctctatcaggatagtgataag	L06443	57446	cgcctggccagagatgagcgttggt	W14172	100050	aacacttatccatagcgaccacacg	AA153726
14843	gaacgtcattctccgacattatgaa	L06443	57447	ggaatcaattactctgcagcgacaa	W14172	100051	tatccatagcgaccacacgcacctt	AA153726
14844	cattctccgacattatgaagacatg	L06443	57448	atcaattactctgcagcgacaaaga	W14172	100052	tccatagcgaccacacgcaccttgt	AA153726
14845	gtagtctcgggactaggctaggagt	L06443	57449	tcaattactctgcagcgacaaagag	W14172	100053	catagcgaccacacgcaccttgtca	AA153726
14846	tcctaaacactgtcatccttcttcc	L06443	57450	attactctgcagcgacaaagagcta	W14172	100054	cacatagacctagatctacacttca	AA153726
14847	acactgtcatccttcttccagaaaa	L06443	57451	tactctgcagcgacaaagagctaag	W14172	100055	catagacctagatctacacttcaat	AA153726
14848	ggcggccatctctgtccccaagggt	L06443	57452	actctgcagcgacaaagagctaagt	W14172	100056	tagacctagatctacacttcaatga	AA153726
14849	taggaacttctgccaccgtcatcag	L06443	57453	ggtaactccttgcatggaaataagt	W14172	100057	cctagatctacacttcaatgatatg	AA153726
14850	cttctgccaccgtcatcagctgttc	L06443	57454	gtaactccttgcatggaaataagta	W14172	100058	tagatctacacttcaatgatatggt	AA153726
14851	ccaccgtcatcagctgttcatcaac	L06443	57455	aactccttgcatggaaataagtact	W14172	100059	gatctacacttcaatgatatggtgg	AA153726
14852	gctgttcatcaacttccaggacctg	L06443	57456	actccttgcatggaaataagtactt	W14172	100060	tctacacttcaatgatatggtggga	AA153726
14853	catcgcccctaaggggttcatggca	L06443	57457	ataagtacttagccctgtgcatctg	W14172	100061	cacttcaatgatatggtgggacaac	AA153726
14854	gcacaccatggtccagaatataatc	L06444	57458	aagtacttagccctgtgcatctgtt	W14172	100062	cggaccttgtgagcgcgcaggccag	AA153990
14855	ggacccttcagtgccaaggccttcg	L06444	57459	tacttagccctgtgcatctgttctc	W14172	100063	gaccttgtgagcgcgcaggccaggc	AA153990
14856	caacaagcctgcctggcagagcaat	L06444	57460	acttagccctgtgcatctgttctcg	W14172	100064	ctccggcaagggcaccgtgtcgtca	AA153990
14857	gcctgcctggcagagcaatgctgtg	L06444	57461	acacactgcatcaatggctcaagga	U03279	100065	gcaccgtgtcgtcacgcatcaccaa	AA153990
14858	tagagtgcctgggcagagagcttcc	L06444	57462	tgcatcaatggctcaaggacaagaa	U03279	100066	caccgtgtcgtcacgcatcaccaaa	AA153990
14859	ctgtgaccagtctctccgtgctgct	L06444	57463	aagagtacaccaagaccagagagtt	U03279	100067	ccgtgtcgtcacgcatcaccaaaca	AA153990
14860	tctccgtgctgctcagtgcacactg	L06444	57464	acaaggcttacctagcaattcggca	U03279	100068	cgtgtcgtcacgcatcaccaaacac	AA153990
14861	tgagcacatcgagtgcagtgtccgt	L06444	57465	cttacctagcaattcggcagcatgc	U03279	100069	tgtcgtcacgcatcaccaaacactt	AA153990
14862	catcgagtgcagtgtccgtaggtgt	L06444	57466	ttcggcagcatgccaatctcttcat	U03279	100070	gtcgtcacgcatcaccaaacacttc	AA153990
14863	taaagggcacactcactggtcgttg	L06444	57467	agcatgccaatctcttcatcaacct	U03279	100071	cgtcacgcatcaccaaacacttcga	AA153990
14864	gcacactcactggtcgttgccataa	L06444	57468	tcttcatcaacctttttttcaatgat	U03279	100072	gtcacgcatcaccaaacacttcgag	AA153990
14865	gtcgttgccataaaccaagtgaaat	L06444	57469	ttttttcaatgatgcttggctctgg	U03279	100073	cacgcatcaccaaacacttcgagct	AA153990
14866	gccaaggccttcgtgtgtgccgggc	L06444	57470	gaatgccagaactacaatcttttga	U03279	100074	accttgtgagcgcgcaggccaggcc	AA153990
14867	tgaacccgacggctccatcgcttac	L06444	57471	cagaactacaatcttttgatgacat	U03279	100075	acgcatcaccaaacacttcgagctg	AA153990
14868	cgacggctccatcgcttacaaagag	L06444	57472	atatccgaaagactctagccttgga	U03279	100076	caggccaggccacagaccagcgtct	AA153990
14869	tacgaggtgcacctgtcgttagcat	L06444	57473	atgcagccattgacctgttcactcg	U03279	100077	aggccaggccacagaccagcgtctg	AA153990
14870	gtgcacctgtcgttagcatgggggc	L06444	57474	ccattgacctgttcactcggtcctg	U03279	100078	aggccacagaccagcgtctgcgacg	AA153990
14871	ctgtcgttagcatgggggccacttc	L06444	57475	acctgttcactcggtcctgcgctgg	U03279	100079	ggccacagaccagcgtctgcgacgt	AA153990
14872	ttagcatgggggccacttcaacaag	L06444	57476	ggtactgcgtggcaacctttatctt	U03279	100080	ccacagaccagcgtctgcgacgtcg	AA153990
14873	ccacttcaacaagcctgcctggcag	L06444	57477	accggcacaacagcaacatcatggt	U03279	100081	cacagaccagcgtctgcgacgtcgg	AA153990
14874	tgctgtccacagaaaccaccttgct	M29603	57478	atgacggacagctgtttcatataga	U03279	100082	gctccggcaagggcaccgtgtcgtc	AA153990
14875	gccacctgtccttgtccgctgaaac	M29603	57479	ggcacttttggatcacaagaagaa	U03279	100083	aatatcactgtggtggttctgcact	AA154007
14876	attactacaggtcaggctaagacta	M29603	57480	tgttgacacaggatttcttgattgt	U03279	100084	gttctgcactcccttgagagcatta	AA154007
14877	tgctgttttcacaataaccaacaag	M29603	57481	ctccggcaagcggggccattctgcc	X61435	100085	cgaatgactcactaccagagcttgc	AA154007
14878	caacaagtccactcaaccataagct	M29603	57482	ttctgcccagatcgctaagcctgtg	X61435	100086	atgactcactaccagagcttgccct	AA154007
14879	gtccactcaaccataagctaccatt	M29603	57483	aaccctggccacatatctgcacttt	X61435	100087	tgacttttgcctcctaccatcctca	AA154007
14880	tcaaccataagctaccatttcgacc	M29603	57484	atatctgcactttcagtttctaaga	X61435	100088	gtcactttattacccaaaattgatg	AA154007
14881	taccatttcgacctaactgtaggct	M29603	57485	gcactttcagtttctaagagggact	X61435	100089	gatgagactccagtgcacaactgtg	AA154007
14882	ttcgacctaactgtaggctactatt	M29603	57486	tgaggcctcttctctcagcatgctg	X61435	100090	gagactccagtgcacaactgtgaag	AA154007
14883	ctaactgtaggctactattgcaact	M29603	57487	tctcagcatgctgcaaaacctgtgg	X61435	100091	attggaactcgaccagacctcacag	AA154007
14884	gtaggctactattgcaactggaaat	M29603	57488	catgctgcaaaacctgtggtctctg	X61435	100092	ggaactcgaccagacctcacagatc	AA154007
14885	atcttgtctagtgatcctgacattt	M29603	57489	cctgtggtctctgacactaactccc	X61435	100093	actcgaccagacctcacagatcagc	AA154007
14886	tgtccttgtccgctgaaaccaccat	M29603	57490	agcccgtgatcttggactgtttgat	X61435	100094	cgaccagacctcacagatcagccgt	AA154007
14887	tgtccgctgaaaccaccatgctgcc	M29603	57491	tgatcttggactgtttgatgtctcc	X61435	100095	ctgcactcccttgagagcattatca	AA154007
14888	tcgtgctgccccaaaaagtgcacct	M29603	57492	gtttgatgtctcctcctattccgta	X61435	100096	gaccagacctcacagatcagccgtg	AA154007
14889	tgcgctcaacctacctgctgctctt	M29603	57493	cttccagaactaccagaacctgcac	X61435	100097	cactcccttgagagcattatcagga	AA154007
14890	caacctacctgctgctcttcagaga	M29603	57494	ggctgcgcctagctccacttcagat	X61435	100098	tcccttgagagcattatcaggaagc	AA154007
14891	acctgctgctcttcagagaacaaga	M29603	57495	ctccacttcagatatgtactttgcc	X61435	100099	atcaggaagctgccagaccgctgga	AA154007
14892	tcagattctgatacatctggccaaa	M29603	57496	tatgtactttgccagcagcggacgc	X61435	100100	atgaccaatgctcgaatgactcact	AA154007

TABLE 1

SEQ ID NO	sequence	DBAxnID
14893	gtccctgacaccatgccctttttca	M29603
14894	atcgctgcaacctttagactaatga	W57194
14895	agactaatgactgtccgaaacatcg	W57194
14896	gagcagtttccgatcaatgaacact	W57194
14897	cagtttccgatcaatgaacactact	W57194
14898	ccgatcaatgaacactacttcggat	W57194
14899	atcaatgaacactacttcggattgg	W57194
14900	ggaaacacatgctactgtaactccg	W57194
14901	aacacatgctactgtaactccgtgc	W57194
14902	acatgctactgtaactccgtgcttc	W57194
14903	tactgtaactccgtgcttcaagcgc	W57194
14904	tgtaactccgtgcttcaagcgctgt	W57194
14905	aactccgtgcttcaagcgctgtact	W57194
14906	atgactgtccgaaacatcgcctcca	W57194
14907	gtgcttcaagcgctgtacttctgcc	W57194
14908	actgtccgaaacatcgcctccatct	W57194
14909	gtccgaaacatcgcctccatctgta	W57194
14910	atcgcctccatctgtaatatgggca	W57194
14911	gcctccatctgtaatatgggcacca	W57194
14912	aatatgggcaccaatgcctctgctc	W57194
14913	accaatgcctctgctctggaaaaag	W57194
14914	aatgcctctgctctggaaaaagaca	W57194
14915	ttcctggactcagggtagatggaat	M76727
14916	tggatatcttgtgcgtccgagaggc	M76727
14917	agtttgccacggctgatcctgagcc	M76727
14918	acatctacagcagtgatcctccctt	M76727
14919	acagcagtgatcctccctttgaagt	M76727
14920	gtgatcctccctttgaagtgcgtgg	M76727
14921	ctccctttgaagtgcgtggtgccaa	M76727
14922	tgcgtggtgccaaccagtggatcaa	M76727
14923	gtgccaaccagtggatcaagtttaa	M76727
14924	gttcctcatccagcgtaaggaactc	M76727
14925	ggaactctgtgctctcaacttggac	M76727
14926	ctgtgctctcaacttggacaggaaa	M76727
14927	agtttgcggctgcctattgcaggtc	M76727
14928	agctccagacttaccgctaccatgg	M76727
14929	gcatgagtgaccctggagtaagcta	M76727
14930	taagctaccgcactcgagaagaaat	M76727
14931	agagtgaccctattatgcttctcaa	M76727
14932	accctattatgcttctcaaggatag	M76727
14933	aaatcgaggatgctgcccagtttgc	M76727
14934	ctgcccagtttgccacggctgatcc	M76727
14935	ccccaggagctgtcggaagaagtga	W57258
14936	aggttgcagatcactccggactcca	W57258
14937	ctcgtcaaggcttcggtcctgcagt	W57258
14938	cgtcaaggcttcggtcctgcagtgt	W57258
14939	tcggtcctgcagtgttaccgacacg	W57258
14940	ggtcctgcagtgttaccgacacggt	W57258
14941	gcagtgttaccgacacggttgctga	W57258
14942	agtgttaccgacacggttgctgagc	W57258
14943	tgttaccgacacggttgctgagcaa	W57258
14944	accgacacggttgctgagcaagctc	W57258
14945	cgacacggttgctgagcaagctcac	W57258
14946	ttgctgagcaagctcaccttccacc	W57258
14947	tgcagatcactccggactccaacgg	W57258
14948	cagatcactccggactccaacgggg	W57258
14949	gaacagttcagttctctgattcaga	W57258
14950	acagttcagttctctgattcagaga	W57258
14951	agttcagttctctgattcagagaga	W57258
14952	tcagagagagccctcgtcaaggctt	W57258
14953	agagagccctcgtcaaggcttcggt	W57258
14954	ccctcgtcaaggcttcggtcctgca	W57258
14955	ctcaagtataagtcccacagttaga	M76728
14956	caagtataagtcccacagttagata	M76728
14957	gttgcatactactatgaatatcttt	M76728
14958	catactactatgaatatcttttaga	M76728
14959	tactactatgaatatcttttagact	M76728
14960	tccccaatttggcatagtagtttca	M76728

SEQ ID NO:	sequence	DBAxnID
57497	ctttgccagcagcggacgcacatct	X61435
57498	ctaccagaaggccaacatggacaat	X61435
57499	tgccacagatatcaacgacaacagg	X61435
57500	agatatcaacgacaacaggagtgac	X61435
57501	cattggcctcattgatatcttctag	W14481
57502	cctcattgatatcttctagcctgaa	W14481
57503	tatggtctccgacgcattccacaaa	W14481
57504	tggtctccgacgcattccacaaatg	W14481
57505	gtctccgacgcattccacaaatgca	W14481
57506	ctccgacgcattccacaaatgcatt	W14481
57507	ccgacgcattccacaaatgcatttc	W14481
57508	cgcattccacaaatgcatttcttcg	W14481
57509	cattccacaaatgcatttcttcgaa	W14481
57510	ttccacaaatgcatttcttcgaagg	W14481
57511	ccacaaatgcatttcttcgaaggaa	W14481
57512	gcatttcttcgaaggaaatgaagaa	W14481
57513	tcattgatatcttctagcctgaaaa	W14481
57514	attgatatcttctagcctgaaaagt	W14481
57515	tgatatcttctagcctgaaaagtct	W14481
57516	atatcttctagcctgaaaagtctga	W14481
57517	cttctagcctgaaaagtctgaactc	W14481
57518	acgacctctatggtctccgacgcat	W14481
57519	gacctctatggtctccgacgcattc	W14481
57520	tctatggtctccgacgcattccaca	W14481
57521	gctttccagctgttatgaccgaaca	W14675
57522	ctttccagctgttatgaccgaacag	W14675
57523	ctgctggccctaggcaagagtcact	W14675
57524	tgctggccctaggcaagagtcacta	W14675
57525	ctggccctaggcaagagtcactacc	W14675
57526	gcaagagtcactaccatacgccgag	W14675
57527	aagagtcactaccatacgccgagtt	W14675
57528	agagtcactaccatacgccgagttg	W14675
57529	gtcactaccatacgccgagttgctc	W14675
57530	cactaccatacgccgagttgctcaa	W14675
57531	taccatacgccgagttgctcaaggt	W14675
57532	accatacgccgagttgctcaaggtc	W14675
57533	ctgttatgaccgaacaggttgatgg	W14675
57534	tgttatgaccgaacaggttgatggc	W14675
57535	atggcagatgctcgctacagcgcag	W14675
57536	gatgctcgctacagcgcagtgtggg	W14675
57537	atgctcgctacagcgcagtgtggga	W14675
57538	ctcgctacagcgcagtgtgggagat	W14675
57539	agatgtgtctgctggccctaggcaa	W14675
57540	tgtctgctggccctaggcaagagtc	W14675
57541	tgaattactaactctaaaatgtaag	Y00850
57542	gctagttgctactgggtggcagata	Y00850
57543	tgctttgagttctcagctaatagtc	Y00850
57544	tttgagttctcagctaatagtcatt	Y00850
57545	gagttctcagctaatagtcattaaa	Y00850
57546	ttctcagctaatagtcattaaactg	Y00850
57547	taaatttactctatttagatgacaa	Y00850
57548	tataatctctaattatctaggaatc	Y00850
57549	aatctctaattatctaggaatcaaa	Y00850
57550	atacatatctttgtgtcttattgga	Y00850
57551	catatctttgtgtcttattggagag	Y00850
57552	atctttgtgtcttattggagagtca	Y00850
57553	agttgctactgggtggcagataaat	Y00850
57554	tgctactgggtggcagataaattgt	Y00850
57555	ttttaatgccatgcatgctgctttg	Y00850
57556	taatgccatgcatgctgctttgagt	Y00850
57557	tgccatgcatgctgctttgagttct	Y00850
57558	catgcatgctgctttgagttctcag	Y00850
57559	gcatgctgctttgagttctcagcta	Y00850
57560	tgctgctttgagttctcagctaata	Y00850
57561	tggttacgagccgtgacctctgaga	W14109
57562	ttacgagccgtgacctctgagattc	W14109
57563	gaagagatccggctcctgaggctac	W14109
57564	atccggctcctgaggctacttgagt	W14109

SEQ ID NO	sequence	DBAxnID
100101	accaatgctcgaatgactcactacc	AA154007
100102	aatgctcgaatgactcactaccaga	AA154007
100103	gctcgaatgactcactaccagagct	AA154007
100104	atttgctgttgtttctataaatgac	M65287
100105	ctattgtaatgccaacatgacacag	M65287
100106	ttaattacaaattcactgtgttatt	M65287
100107	ttacaaattcactgtgttatttaag	M65287
100108	ctatgcttagtgccaatagtaagtg	M65287
100109	ttcttctactggcttgtaatttagg	M65287
100110	catacttatatcaaggtcccaaaat	M65287
100111	tacttatatcaaggtcccaaaatat	M65287
100112	cttttccatttcaaagacagcactt	M65287
100113	tttccatttcaaagacagcactttg	M65287
100114	tccatttcaaagacagcactttgaa	M65287
100115	catttcaaagacagcactttgaaaa	M65287
100116	attgtaatgccaacatgacacagct	M65287
100117	tgtaatgccaacatgacacagcttg	M65287
100118	taatgccaacatgacacagcttgtg	M65287
100119	gccaacatgacacagcttgtgaatg	M65287
100120	acatgacacagcttgtgaatgtgta	M65287
100121	tgctgctgttctgtgtacatagtca	M65287
100122	ctgctgttctgtgtacatagtcatc	M65287
100123	aaatcagtccatgttttataacaag	M65287
100124	acccaaaatctcgtttctagcagag	AA153980
100125	ccaaaatctcgtttctagcagaggt	AA153980
100126	ccactctgtgcccatatgcatgtca	AA153980
100127	actctgtgcccatatgcatgtcaga	AA153980
100128	tgtgcccatatgcatgtcagatgaa	AA153980
100129	tgcccatatgcatgtcagatgaata	AA153980
100130	cccatatgcatgtcagatgaatatg	AA153980
100131	acaactctcttctgaagcaatagat	AA153980
100132	ctcttctgaagcaatagatgctgct	AA153980
100133	tgctgctcgtatttgtgccaacctg	AA153980
100134	ctgctcgtatttgtgccaacctgta	AA153980
100135	tcgtatttgtgccaacctgtacatg	AA153980
100136	aatctcgtttctagcagaggtgtcc	AA153980
100137	tcgtttctagcagaggtgtccctga	AA153980
100138	atccgaatcagtgatttgtgacggt	AA153980
100139	aagtagatgaactcccactctgtgc	AA153980
100140	gtagatgaactcccactctgtgccc	AA153980
100141	agatgaactcccactctgtgcccat	AA153980
100142	actcccactctgtgcccatatgcat	AA153980
100143	tcccactctgtgcccatatgcatgt	AA153980
100144	caggccctcaacatttatagggctt	W12563
100145	ggccctcaacatttatagggcttct	W12563
100146	tcccgtgcctgcttcttccagcgag	W12563
100147	gcctgcttcttccagcgagcaccaa	W12563
100148	cctgcttcttccagcgagcaccaaa	W12563
100149	tgcttcttccagcgagcaccaaaac	W12563
100150	gcttcttccagcgagcaccaaaaca	W12563
100151	cttcttccagcgagcaccaaaacag	W12563
100152	ttcttccagcgagcaccaaaacagc	W12563
100153	cttccagcgagcaccaaaacagcgg	W12563
100154	cgagcaccaaaacagcggttcttgg	W12563
100155	gagcaccaaaacagcggttcttggc	W12563
100156	gccctcaacatttatagggcttctg	W12563
100157	acatttatagggcttctggacacca	W12563
100158	catttatagggcttctggacaccac	W12563
100159	atttatagggcttctggacaccact	W12563
100160	ggcttctggacaccactctacgacc	W12563
100161	ttctggacaccactctacgacccgg	W12563
100162	cgggcagcaccagtgatgttggcag	W12563
100163	gggcagcaccagtgatgttggcagc	W12563
100164	gccacgtcttccgaaatctctttca	AA154013
100165	tcttccgaaatctctttcaccggca	AA154013
100166	tcaaattcgtgagtcaccggcagcc	AA154013
100167	aattcgtgagtcaccggcagccaag	AA154013
100168	gtcaccggcagccaaggcgggcttg	AA154013

TABLE 1

SEQ ID NO	sequence	DBAxnID
14961	cttcttctttgatgagtttgtcaaa	M76728
14962	cctcaccaaatacctgattatgttc	M76728
14963	tcaccaaatacctgattatgttccc	M76728
14964	tccatgtccaatctctgacccaggt	M76728
14965	atgtccaatctctgacccaggttcc	M76728
14966	tgtccaatctctgacccaggttcct	M76728
14967	aagtataagtcccacagttagatag	M76728
14968	gtataagtcccacagttagatagat	M76728
14969	tataagtcccacagttagatagatg	M76728
14970	taagtcccacagttagatagatgtt	M76728
14971	aagtcccacagttagatagatgtta	M76728
14972	gatgttacctatacatttgttaaat	M76728
14973	ttttttcagtgggacatttatggtg	M76728
14974	agattcctgagttattaaggagatt	M76728
14975	atgcgaagtgccgggatgaaaagtg	W57293
14976	gagtgtactctgtgggtagaccgat	W57293
14977	tcgtgctacaccggtttacggcgca	W57293
14978	gtgctacaccggtttacggcgcaag	W57293
14979	atcatcgataatcgaatctgttccc	W57293
14980	gataatcgaatctgttcccgactca	W57293
14981	taatcgaatctgttcccgactcatg	W57293
14982	aatcgaatctgttcccgactcatgt	W57293
14983	atcgaatctgttcccgactcatgtg	W57293
14984	cgaatctgttcccgactcatgtgta	W57293
14985	tgttcccgactcatgtgtacagagc	W57293
14986	tcccgactcatgtgtacagagcatg	W57293
14987	gtgtactctgtgggtagaccgatga	W57293
14988	tgtactctgtgggtagaccgatgag	W57293
14989	gtactctgtgggtagaccgatgagg	W57293
14990	actctgtgggtagaccgatgaggca	W57293
14991	tagaccgatgaggcagtgtgtgcaa	W57293
14992	tgtgtgcaacagtcgtgctacaccg	W57293
14993	tgtgcaacagtcgtgctacaccggt	W57293
14994	tgcaacagtcgtgctacaccggttt	W57293
14995	aattaatgccaaccttgaagccagt	W57316
14996	ttaatgccaaccttgaagccagtgg	W57316
14997	gggcaccagtccacaaactggcttc	W57316
14998	ggcaccagtccacaaactggcttca	W57316
14999	caccagtccacaaactggcttcaag	W57316
15000	accagtccacaaactggcttcaagg	W57316
15001	cagtccacaaactggcttcaaggtt	W57316
15002	agtccacaaactggcttcaaggttg	W57316
15003	tccacaaactggcttcaaggttggc	W57316
15004	ccacaaactggcttcaaggttggca	W57316
15005	tagtggtacctaggtggcgacctgg	W57316
15006	tacctaggtggcgacctggccaagg	W57316
15007	taatgccaaccttgaagccagtggg	W57316
15008	caaccttgaagccagtggggcacca	W57316
15009	accttgaagccagtggggcaccagt	W57316
15010	ccttgaagccagtggggcaccagtc	W57316
15011	ttgaagccagtggggcaccagtcca	W57316
15012	tgaagccagtggggcaccagtccac	W57316
15013	aagccagtggggcaccagtccacaa	W57316
15014	tggggcaccagtccacaaactggct	W57316
15015	agcatgagtccagacactgaagtta	U24700
15016	agtccagacactgaagttaggagac	U24700
15017	cactgcccagcttaggatgcggtct	U24700
15018	taggatgcggtctgcggcgtctgac	U24700
15019	gtctgacctggtgtagagggaacaa	U24700
15020	acaactcgcaagcctgctctggaac	U24700
15021	cctgctctggaactggaagggcctg	U24700
15022	tattagtgcactgggctttgaagga	U24700
15023	tggtcccacgaacagagtctaatct	U24700
15024	tcagggccttaacctgttcaggaga	U24700
15025	tgccaaatactcttcttgctctcac	U24700
15026	atactcttcttgctctcacctcact	U24700
15027	cttcaaagtgctcaggcgtctgtcc	U24700
15028	tcctccactgaggaggaacacaagg	U24700

SEQ ID NO:	sequence	DBAxnID
57565	ctgaggctacttgagtcgtacatgc	W14109
57566	ctacttgagtcgtacatgccagtct	W14109
57567	gagtcgtacatgccagtcttccact	W14109
57568	tcgtacatgccagtcttccactcca	W14109
57569	tacatgccagtcttccactccagct	W14109
57570	tgcctccatgctactgcttggcact	W14109
57571	ctccatgctactgcttggcactctc	W14109
57572	catgctactgcttggcactctccta	W14109
57573	cgagccgtgacctctgagattcagt	W14109
57574	atgctactgcttggcactctcctac	W14109
57575	gtgacctctgagattcagtgccatg	W14109
57576	catgccaaggcatactttgactcca	W14109
57577	tttgactccacacacgaccagctga	W14109
57578	cttctcatgtccgcagtaactagtc	W14109
57579	ctcatgtccgcagtaactagtctgg	W14109
57580	tccgcagtaactagtctggtgaact	W14109
57581	ttcttcggcggtttaatcatgcttg	W14109
57582	aaatgcttccgctgaaggtccggag	X06407
57583	aatgcttccgctgaaggtccggagg	X06407
57584	tgctgcttaccatccatacaacacc	X06407
57585	gctgcttaccatccatacaacacca	X06407
57586	ctgcttaccatccatacaacaccag	X06407
57587	tgcttaccatccatacaacaccagg	X06407
57588	gcttaccatccatacaacaccagga	X06407
57589	cttaccatccatacaacaccaggac	X06407
57590	ttaccatccatacaacaccaggact	X06407
57591	taccatccatacaacaccaggactt	X06407
57592	actgatgtcatcttgagcttttatt	X06407
57593	atgcttccgctgaaggtccggaggg	X06407
57594	tgcttccgctgaaggtccggagggc	X06407
57595	attggctgctgcttaccatccatac	X06407
57596	ttggctgctgcttaccatccataca	X06407
57597	tggctgctgcttaccatccatacaa	X06407
57598	ggctgctgcttaccatccatacaac	X06407
57599	gctgctgcttaccatccatacaaca	X06407
57600	ctgctgcttaccatccatacaacac	X06407
57601	aggtgaagctgctcctacttctgct	W14947
57602	tgctcctacttctgctgtggctggt	W14947
57603	acatggcggccacaggcttaaatgc	W14947
57604	tggcggccacaggcttaaatgccac	W14947
57605	caggcttaaatgccacctctggaca	W14947
57606	gcttaaatgccacctctggacagga	W14947
57607	taaatgccacctctggacaggatac	W14947
57608	atgccacctctggacaggatactca	W14947
57609	gcagtcatctgggcaccatggtgga	W14947
57610	gtcatctgggcaccatggtggaatt	W14947
57611	atctgggcaccatggtggaatttgc	W14947
57612	tggaatttgcagtggccctggggtc	W14947
57613	ttctgctgtggctggtggcatcttg	W14947
57614	atttgcagtggccctggggtctaag	W14947
57615	tggtggcatcttgttccctatttct	W14947
57616	catcttgttccctatttctgcattc	W14947
57617	cttgttccctatttctgcattccca	W14947
57618	acgcctggctgtctgagctgctctc	W14947
57619	cctggctgtctgagctgctctccaa	W14947
57620	ctgagctgctctccaagccaaagtt	W14947
57621	cctacatggcggccacaggcttaaa	W14947
57622	gcatcagccatggctctgcgctacc	
57623	tcagccatggctctgcgctacccca	
57624	tcaccaaacacaccaagttcgtgcg	
57625	tcgcaccctacgagcggcgagccat	
57626	caccctacgagcggcgagccatgga	
57627	acgagcggcgagccatggagttgct	
57628	agcggcgagccatggagttgctcaa	
57629	tgtccaaggacaagcgcgcactcaa	
57630	aggacaagcgcgcactcaagttcat	
57631	acaagcgcgcactcaagttcatcaa	
57632	gcgcactcaagttcatcaagaagag	

SEQ ID NO	sequence	DBAxnID
100169	gcaggccctgactcataaggccaga	AA154013
100170	cctgactcataaggccagagtgacc	AA154013
100171	gactcataaggccagagtgacctgg	AA154013
100172	ggggctcccattaaatgggagatat	AA154013
100173	ctccagccaccttggcatagacagg	AA154013
100174	cagccaccttggcatagacagggca	AA154013
100175	ccaccttggcatagacagggcatgt	AA154013
100176	tccgaaatctctttcaccggcaggt	AA154013
100177	gaaatctctttcaccggcaggtctt	AA154013
100178	ttcaccggcaggtcttctcctacga	AA154013
100179	tctcctacgactacgtcttcgactg	AA154013
100180	acgactacgtcttcgactggaacat	AA154013
100181	actacgtcttcgactggaacatgct	AA154013
100182	ggaacatgctcaaattcgtgagtca	AA154013
100183	tgctcaaattcgtgagtcaccggca	AA154013
100184	gctagtatccagaaggcccagtctc	AA154049
100185	agtatccagaaggcccagtctctga	AA154049
100186	agcggatacctctcaggttttcaag	AA154049
100187	ctctcaggttttcaagctagaaatg	AA154049
100188	gctagaaatgcccttcttcagtcaa	AA154049
100189	aatgcccttcttcagtcaaatctct	AA154049
100190	cttcttcagtcaaatctctctcaaa	AA154049
100191	cagtcaaatctctctcaaactcagc	AA154049
100192	tcaaatctctctcaaactcagctag	AA154049
100193	tctcaaactcagctagctactattt	AA154049
100194	ctagctactatttggactctggctg	AA154049
100195	actatttggactctggctgacatcg	AA154049
100196	aaggcccagtctctgattgatttag	AA154049
100197	tggactctggctgacatcgatggtg	AA154049
100198	gcccagtctctgattgatttaggat	AA154049
100199	ggatctagtagctcaacttcctcaa	AA154049
100200	tcaactgcttccctctcagggaact	AA154049
100201	tcacctaagacagggacctcagagt	AA154049
100202	gcagttcctcagccttcaagattaa	AA154049
100203	gttcctcagccttcaagattaaagt	AA154049
100204	atgagcggatacctctcaggttttc	AA154049
100205	cgtcatgatcgaggacatggagatg	AA154564
100206	gatgctgaccttgcatgacgatccg	AA154564
100207	atatggcctattctgcgtcaccgtc	AA154564
100208	attctgcgtcaccgtcaaggcctat	AA154564
100209	ctgcgtcaccgtcaaggcctatcag	AA154564
100210	cgtcaccgtcaaggcctatcagtag	AA154564
100211	caaggcctatcagtaggtgactgtg	AA154564
100212	ctatcagtaggtgactgtgtacgat	AA154564
100213	gtacgattcggaactggtggctgac	AA154564
100214	cgattcggaactggtggctgactct	AA154564
100215	ggctgactctcgcggtaagatgagg	AA154564
100216	tgactctcgcggtaagatgaggtgc	AA154564
100217	gctgaccttgcatgacgatccggat	AA154564
100218	gaccttgcatgacgatccggatgat	AA154564
100219	tgacgatccggatgatgtgtacaat	AA154564
100220	ttaccggcctgggatgatctatacc	AA154564
100221	gatctatacctaatatggcctattc	AA154564
100222	ctatacctaatatggcctattctgc	AA154564
100223	tacctaatatggcctattctgcgtc	AA154564
100224	ctaatatggcctattctgcgtcacc	AA154564
100225	tggctgacttcggcctggctgttcg	M84120
100226	gcctggctgttcggtttgagccagg	M84120
100227	agatgaggcccacgattaaggatca	M84120
100228	gcctggcccagctctgcgtgaccat	M84120
100229	cccagctctgcgtgaccatcgagga	M84120
100230	cagaggctcgcctttctgcaggctg	M84120
100231	ctcgcctttctgcaggctgtgtaga	M84120
100232	tcaacggcactacctcggactgtct	M84120
100233	tgctccctaaagagtccagcatcta	M84120
100234	ctaaagagtccagcatctaagcccg	M84120
100235	agtccagcatctaagcccgggacac	M84120
100236	ccagactcagtggatctgaagaaaa	M84120

TABLE 1

SEQ ID NO:	sequence	DBAxnID
15029	cacaaggcacattggccaagtcact	U24700
15030	gcacattggccaagtcactggaagc	U24700
15031	agtcactggaagcccttcctggtca	U24700
15032	aatgtgtgcatggccacgctcctgg	U24700
15033	ctcctggccaccggcgcgtacttgt	U24700
15034	cactgacagactgggaggcactgcc	U24700
15035	ggcgcctatgatgctgcccgtagcc	W57318
15036	cgcctatgatgctgcccgtagcctc	W57318
15037	atctaaggcctcctgaggatgtagc	W57318
15038	aaggcctcctgaggatgtagccatc	W57318
15039	ggcctcctgaggatgtagccatcta	W57318
15040	ggatgtagccatctacattatagac	W57318
15041	gtagccatctacattatagacgaca	W57318
15042	taaagtggaaccaccacagagaatc	W57318
15043	aagtggaaccaccacagagaatcaa	W57318
15044	ccaccacagagaatcaatgggcaac	W57318
15045	acttttcagcagaatatcaaaaag	W57318
15046	gcccaaatgtcaacatattacaagg	W57318
15047	cctatgatgctgcccgtagcctcag	W57318
15048	tgatgctgcccgtagcctcaggtga	W57318
15049	atgctgcccgtagcctcaggtgaag	W57318
15050	gctgcccgtagcctcaggtgaagac	W57318
15051	tgcccgtagcctcaggtgaagacaa	W57318
15052	cgtagcctcaggtgaagacaatcta	W57318
15053	aagacaatctaaggcctcctgagga	W57318
15054	gacaatctaaggcctcctgaggatg	W57318
15055	tggttcctgtggagcaatgctttcg	W57325
15056	ggttcctgtggagcaatgctttcgc	W57325
15057	gtccgcagatggactccggctgcag	W57325
15058	ggtatccagggacccaaatgcttat	W57325
15059	atccagggacccaaatgcttatcct	W57325
15060	gacccaaatgcttatcctcaagaac	W57325
15061	cccaaatgcttatcctcaagaacat	W57325
15062	ccaaatgcttatcctcaagaacatc	W57325
15063	aatgcttatcctcaagaacatctgt	W57325
15064	tgcttatcctcaagaacatctgtat	W57325
15065	ttatcctcaagaacatctgtatgtc	W57325
15066	tatcctcaagaacatctgtatgtca	W57325
15067	ttcctgtggagcaatgctttcgccc	W57325
15068	gctttcgcccgcaatgagcttcctc	W57325
15069	ttcgcccgcaatgagcttcctcaaa	W57325
15070	tcgcccgcaatgagcttcctcaaaa	W57325
15071	cccgcaatgagcttcctcaaaagct	W57325
15072	cgcaatgagcttcctcaaaagcttc	W57325
15073	gcaatgagcttcctcaaaagcttcc	W57325
15074	aatgagcttcctcaaaagcttcccg	W57325
15075	tgggtgccctacaccatgacccaga	U41397
15076	acccagagcactggccgaatcctga	U41397
15077	aagccagccctgagactcaggttcc	U41397
15078	cacttcagctagaatccaaatctgc	U41397
15079	agctagaatccaaatctgccctagg	U41397
15080	gagtctacatcaagattgtgtcacg	U41397
15081	tgtcacgctgatatagaaggcacgt	U41397
15082	tggtaacatctgcacatcgctgcag	U41397
15083	cacatcgctgcaggagggcacccgg	U41397
15084	cacccggattcagatgaaagcctcg	U41397
15085	atgtgagcctactttgtcacaattc	U41397
15086	gcctactttgtcacaattcctaaat	U41397
15087	atcctgagacctttgaccctgaaag	U41397
15088	ttgtcacaattcctaaatgtttaat	U41397
15089	ggttcacagcagaggcccggcttca	U41397
15090	ggcttcagcggaggccgttcacata	U41397
15091	tcacatacctgccctttggagctgg	U41397
15092	gcctgctggtggtcaagctgacaat	U41397
15093	tgacaatactccaggtcctacacaa	U41397
15094	tacacaagttccgctttgaagccag	U41397
15095	gctttgaagccagccctgagactca	U41397
15096	tggcccagaggcaacggagcccgat	W57332
57633	cactcaagttcatcaagaagagggt	
57634	atggctctgcgctaccccatggccg	
57635	cgctaccccatggccgtgggctcaa	
57636	taccccatggccgtgggctcaacaa	
57637	cccatggccgtgggctcaacaaggg	
57638	ggctcaacaagggccacaaggtgac	
57639	aaaacgtcagtaagccgagacacag	
57640	agccgagacacagccggcgacgcgg	
57641	gcgggcgcctcaccaaacacaccaa	
57642	cggccgccatcggagagcatcagcc	
57643	ggccgccatcggagagcatcagcca	
57644	gccgccatcggagagcatcagccat	
57645	ccgccatcggagagcatcagccatg	
57646	cggccgccatcggagagcatcagcc	
57647	ggccgccatcggagagcatcagcca	
57648	gccgccatcggagagcatcagccat	
57649	ccgccatcggagagcatcagccatg	
57650	tacccttaacgagtacgacacatgg	W14335
57651	ccttaacgagtacgacacatggtca	W14335
57652	agtctgagtgccatgcctggagacg	W14335
57653	ctgagtgccatgcctggagacgctt	W14335
57654	agtgccatgcctggagacgcttaat	W14335
57655	gccatgcctggagacgcttaatgac	W14335
57656	gacgcttaatgacccctgtcgcaga	W14335
57657	gcttaatgacccctgtcgcagagtt	W14335
57658	taatgacccctgtcgcagagttgtg	W14335
57659	tgacccctgtcgcagagttgtgatc	W14335
57660	cccctgtcgcagagttgtgatccga	W14335
57661	tgtgatccgacaaacggcacccgag	W14335
57662	cacatggtcaaaatccacctgaaga	W14335
57663	atccacctgaagacacttcactagc	W14335
57664	cacctgaagacacttcactagcaag	W14335
57665	ctgaagacacttcactagcaagcca	W14335
57666	aagacacttcactagcaagccagac	W14335
57667	acacttcactagcaagccagacctg	W14335
57668	cttcactagcaagccagacctgcgc	W14335
57669	gacctgcgacatagtctgagtgcca	W14335
57670	atcgtgactcccggcaaggccattc	W14434
57671	gactcccggcaaggccattctggct	W14434
57672	cgcagtccgtattcagtgctgatga	W14434
57673	cagtccgtattcagtgctgatgacc	W14434
57674	agtccgtattcagtgctgatgaccg	W14434
57675	gtccgtattcagtgctgatgaccgt	W14434
57676	tgggtcatcttcttccatgagagac	W14434
57677	gggtcatcttcttccatgagagact	W14434
57678	ggtcatcttcttccatgagagactc	W14434
57679	gtcatcttcttccatgagagactct	W14434
57680	tcatcttcttccatgagagactcta	W14434
57681	catcttcttccatgagagactctac	W14434
57682	actcccggcaaggccattctggctg	W14434
57683	atcttcttccatgagagactctacc	W14434
57684	gctggtaccgcagtccgtattcagt	W14434
57685	ctggtaccgcagtccgtattcagtg	W14434
57686	tggtaccgcagtccgtattcagtgc	W14434
57687	ggtaccgcagtccgtattcagtgct	W14434
57688	taccgcagtccgtattcagtgctga	W14434
57689	accgcagtccgtattcagtgctgat	W14434
57690	ccgcagtccgtattcagtgctgatg	W14434
57691	gatacatacaatagctacacagctg	X84014
57692	tacaatagctacacagctgggcagc	X84014
57693	agcctgaatggctgccctgaccact	X84014
57694	attcaaaaccatcaagctgtcatag	X84014
57695	gtcatagacacagtgctgtacagat	X84014
57696	tctctgtctttcagtgacacacatg	X84014
57697	tctttcagtgacacacatgcatttt	X84014
57698	acattcacacaacactttagttaat	X84014
57699	tttttccactaagaattatatgcct	X84014
57700	gaattatatgccttctagagagctt	X84014
100237	ttggcaccagacggtacatggcccc	M84120
100238	acgccttcctgcgtatcgacatgta	M84120
100239	tcctgcgtatcgacatgtacgccat	M84120
100240	agctcgtctctcggtgcaaggctgc	M84120
100241	aggctgcagacgggcctgtcgatga	M84120
100242	tgctgcccttcgaggaggagattgg	M84120
100243	agattggccagcacccttcgctgga	M84120
100244	ttgtccacaagaagatgaggcccac	M84120
100245	gcctccagtgggacagatgccaaga	AA154092
100246	acagatgccaagaactcctcaagag	AA154092
100247	gaagtacacacttcagccccttttgg	AA154092
100248	gacgccagcttagctcctcatgata	AA154092
100249	agcttagctcctcatgataccatca	AA154092
100250	gctcctcatgataccatcatcagta	AA154092
100251	catgataccatcatcagtacaacca	AA154092
100252	accatcatcagtacaaccacagaat	AA154092
100253	acagaatttccaaatgtcctcacaa	AA154092
100254	tttccaaatgtcctcacaactgcaa	AA154092
100255	aatgtcctcacaactgcaaatggaa	AA154092
100256	ctcacaactgcaaatggaactacta	AA154092
100257	gccaagaactcctcaagagctgctg	AA154092
100258	aactcctcaagagctgctgcttctt	AA154092
100259	tcaagagctgctgcttcttctaaaa	AA154092
100260	gctgctgcttcttctaaaagtggat	AA154092
100261	tccactggaccccaagaaccagact	AA154092
100262	caagaaccagactccccagtttcat	AA154092
100263	ccagactccccagtttcatggatac	AA154092
100264	tccccagtttcatggatacccagtg	AA154092
100265	atagctcattagggttccacgctcc	AA153896
100266	gctcattagggttccacgctccgtc	AA153896
100267	gctctgctttgggatcccttcctta	AA153896
100268	gatcccttccttaacgactgcctca	AA153896
100269	aacgactgcctcacttaggtaacat	AA153896
100270	gactgcctcacttaggtaacatcct	AA153896
100271	tgcctcacttaggtaacatccttag	AA153896
100272	taggtaacatccttagggatgcaga	AA153896
100273	gtaacatccttagggatgcagagaa	AA153896
100274	acatccttagggatgcagagaaagg	AA153896
100275	gtgggccttggaggcgtgaacatca	AA153896
100276	ctcagatcctggtggcgctgagaca	AA153896
100277	cccactgtagcccagtctttctaga	AA153896
100278	actgtagcccagtctttctagagtt	AA153896
100279	gtagcccagtctttctagagttcta	AA153896
100280	gcccagtctttctagagttctatat	AA153896
100281	ttctagagttctatatcgagctctt	AA153896
100282	agttctatatcgagctcttgagagt	AA153896
100283	atatcgagctcttgagagtaagtgg	AA153896
100284	taagtggctctgctttgggatccct	AA153896
100285	gtacttgtcttgggccttagacacg	AA154214
100286	ttgtcttgggccttagacacgaatc	AA154214
100287	agatgctcctggccatacgagtatt	AA154214
100288	atgctcctggccatacgagtattgt	AA154214
100289	gctcctggccatacgagtattgtcc	AA154214
100290	tgattggtggagcctcctagctgac	AA154214
100291	ggagcctcctagctgacttggctgt	AA154214
100292	agcctcctagctgacttggctgtac	AA154214
100293	cctcctagctgacttggctgtactg	AA154214
100294	tcctagctgacttggctgtactggt	AA154214
100295	ctagctgacttggctgtactggtaa	AA154214
100296	agctgacttggctgtactggtaact	AA154214
100297	gtcttgggccttagacacgaatcag	AA154214
100298	ctgacttggctgtactggtaactcg	AA154214
100299	cttgggccttagacacgaatcagga	AA154214
100300	ggccttagacacgaatcaggaagat	AA154214
100301	ccttagacacgaatcaggaagatcg	AA154214
100302	acaattctagatgctcctggccata	AA154214
100303	aattctagatgctcctggccatacg	AA154214
100304	ttctagatgctcctggccatacgag	AA154214

TABLE 1

SEQ ID NO	sequence	DBAxnID
15097	aggcaacggagcccgatgatgtcat	W57332
15098	tatattcccatggattaaaggatat	W57332
15099	tattcccatggattaaaggatatgg	W57332
15100	gtggtcaagctcagtcagggactgt	W57332
15101	ggtcaagctcagtcagggactgtcg	W57332
15102	aagctcagtcagggactgtcgagtc	W57332
15103	gctcagtcagggactgtcgagtcag	W57332
15104	tcagtcagggactgtcgagtcagcc	W57332
15105	actgtcgagtcagccagatttgcta	W57332
15106	tgtcgagtcagccagatttgctatg	W57332
15107	gagtcagccagatttgctatgtcca	W57332
15108	gcaacggagcccgatgatgtcatcg	W57332
15109	cagatttgctatgtccatctgcatg	W57332
15110	gcttcttcgaggcagctatgcgtag	W57332
15111	tttgagaagccttcagcgaggcagg	W57332
15112	tgagaagccttcagcgaggcaggag	W57332
15113	agaagccttcagcgaggcaggagag	W57332
15114	aagccttcagcgaggcaggagagtg	W57332
15115	cttcagcgaggcaggagagtgttat	W57332
15116	gttatatttcccatggattaaaggat	W57332
15117	agcccacatcaattgccagagcccg	D28812
15118	ctgagccactaataactgggaccct	D28812
15119	agctctgggcatttgatgcagcaca	D28812
15120	agtgcatccaattccactacggggg	D28812
15121	actgtggagtccctggtgatgggta	D28812
15122	tccctggtgatgggtacgaggaact	D28812
15123	ggtgccagtctgcaagccagagggt	D28812
15124	ccactgtttgtcacagcgcagtcca	D28812
15125	tttgtcacagcgcagtccagcttag	D28812
15126	gtcacagcgcagtccagcttagatg	D28812
15127	acagcgcagtccagcttagatgatc	D28812
15128	cagtccagcttagatgatctggacc	D28812
15129	attactacaacggcgcttccatggc	D28812
15130	actacaacggcgcttccatggcctg	D28812
15131	acaacttcatctctgagaaggactg	D28812
15132	tcatctctgagaaggactgtctgca	D28812
15133	actgtctgcagacatgtcggaccat	D28812
15134	agacatgtcggaccatagcggcctg	D28812
15135	tagcggcctgcaatctccccatagt	D28812
15136	gagccttcataaagctctgggcatt	D28812
15137	agacgaacccaggagctccgcacgg	W57363
15138	gacgaacccaggagctccgcacggc	W57363
15139	gtcactgtggaccgagaccgcttca	W57363
15140	tcactgtggaccgagaccgcttcat	W57363
15141	actgtggaccgagaccgcttcatgg	W57363
15142	ctgtggaccgagaccgcttcatgga	W57363
15143	tggaccgagaccgcttcatggatga	W57363
15144	ggaaacacagcgccatcctggcctc	W57363
15145	gagctcatgtcggacattaagaaga	W57363
15146	gcaaacaaagttcgctccaagctaa	W57363
15147	aagttcgctccaagctaaagagcat	W57363
15148	gttcgctccaagctaaagagcatcg	W57363
15149	gaacccaggagctccgcacggccaa	W57363
15150	gagctccgcacggccaaggacagcg	W57363
15151	agctccgcacggccaaggacagcga	W57363
15152	gatgatgtcactgtcactgtggacc	W57363
15153	atgatgtcactgtcactgtggaccg	W57363
15154	gatgtcactgtcactgtggaccgag	W57363
15155	atgtcactgtcactgtggaccgaga	W57363
15156	actgtcactgtggaccgagaccgct	W57363
15157	ttcactgacttcatgtgcatggcgc	U02602
15158	tccttctatgcgctgtcggcactta	U02602
15159	cccaacaatagcactggtattcaga	U02602
15160	aggcagagtctccccaacatgcaag	U02602
15161	agtctccccaacatgcaagatacct	U02602
15162	cccaacatgcaagatacctatgaac	U02602
15163	gatacctatgaactgcttggaaact	U02602
15164	ctgcttggaaactcccagctagctc	U02602
57701	tatgccttctagagagctttttccc	X84014
57702	attgctacagttcattgggattaaa	X84014
57703	acagctgggcagctttccttcccac	X84014
57704	agcacccgagggtcactacacattg	X84014
57705	tcactacacattggaggcgtcccag	X84014
57706	cacattggaggcgtcccagacaaat	X84014
57707	tcatttttggctgtctgaagaata	X84014
57708	acagaagccaccgatgtccaaggtt	X84014
57709	gatgtccaaggttctgtcagcctga	X84014
57710	tctgtcagcctgaatggctgccctg	X84014
57711	gaatctcggatgacacgtatcacag	W08182
57712	tgacacgtatcacagagctagagtg	W08182
57713	aggagcatcacatatcagagtgagg	W08182
57714	gcatcacatatcagagtgaggacga	W08182
57715	cgacacgaagcatgtcttcagactg	W08182
57716	acacgaagcatgtcttcagactgca	W08182
57717	agcatgtcttcagactgcaggatct	W08182
57718	catgtcttcagactgcaggatctag	W08182
57719	tgtcttcagactgcaggatctagtg	W08182
57720	tcttcagactgcaggatctagtgga	W08182
57721	cagactgcaggatctagtggataga	W08182
57722	agactccaagtgagagtccagtccc	W08182
57723	acacgtatcacagagctagagtgtg	W08182
57724	gtgagccgcaaggcgagcatgaaca	W08182
57725	gaacaggacacagactctgtggacg	W08182
57726	acaggacacagactctgtggacggc	W08182
57727	gacacagactctgtggacggcctaa	W08182
57728	cacagactctgtggacggcctaagg	W08182
57729	cagactctgtggacggcctaaggaa	W08182
57730	gactctgtggacggcctaaggaagt	W08182
57731	ctttactgagctagggcgagttctt	X54098
57732	agttctttctctctcctggcacagc	X54098
57733	gctgccttccgacagggcaggtgta	X54098
57734	actctgcactggagctagcttcctt	X54098
57735	cactggagctagcttccttgtattt	X54098
57736	agctagcttccttgtatttgaggag	X54098
57737	cttccttgtatttgaggagcaggtc	X54098
57738	taatctgcaggtcctcaggggtctg	X54098
57739	gtttctggccctggctaggtgagat	X54098
57740	ctctcagctctacagattgtttctt	X54098
57741	agatgcatgccaaacgtgtgttcca	X54098
57742	tcttttacgcctatgatttgtaata	X54098
57743	ctcctggcacagctgatggtaggaa	X54098
57744	tcccccaaggcaagagctcttggcc	X54098
57745	agagctcttggccacaggatgccac	X54098
57746	cttggccacaggatgccaccactgc	X54098
57747	tcctgcttctagagtacctccgttt	X54098
57748	gtgaccggcgttggatcctggatag	X54098
57749	gttatggctggctgcagtcactgag	X54098
57750	tgcagtcactgagcctctgctgcct	X54098
57751	cttcagccatcacgtaaacacgact	W08680
57752	cagccatcacgtaaacacgactacg	W08680
57753	ttactgcatgtgactcgccctcatg	W08680
57754	ctgcatgtgactcgccctcatgtca	W08680
57755	catgtgactcgccctcatgtcatca	W08680
57756	cgccctcatgtcatcataagatttc	W08680
57757	caccacactccagaagttagtcata	W08680
57758	cacactccagaagttagtcatagtc	W08680
57759	agtcatagtcaactctacaaaagtt	W08680
57760	aatcactaagacatgacttacgcat	W08680
57761	taagacatgacttacgcatacttcc	W08680
57762	atgacttacgcatacttcccagaag	W08680
57763	ccatcacgtaaacacgactacgcgt	W08680
57764	tccaacatcaatcctggaactctag	W08680
57765	atcaatcctggaactctagtcctca	W08680
57766	aatcctggaactctagtcctcatac	W08680
57767	ctagtcctcatacacaatggacgac	W08680
57768	atacacaatggacgacacagaggca	W08680
100305	ctagatgctcctggccatacgagta	AA154214
100306	tctcaattatcattgctctataggg	AA154170
100307	tcaattatcattgctctatagggaa	AA154170
100308	tcatttgcttttgcaagaatggatt	AA154170
100309	atttgcttttgcaagaatggattat	AA154170
100310	ttaacctatgttccaatatttctgc	AA154170
100311	cctatgttccaatatttctgctgct	AA154170
100312	tatgttccaatatttctgctgctcc	AA154170
100313	aatatttctgctgctccttttagat	AA154170
100314	tatttctgctgctccttttagatgc	AA154170
100315	tttctgctgctccttttagatgcag	AA154170
100316	ctgctccttttagatgcaggcaagt	AA154170
100317	gctccttttagatgcaggcaagtca	AA154170
100318	aattatcattgctctatagggaatc	AA154170
100319	ttatcattgctctatagggaatcac	AA154170
100320	tctatagggaatcaccctttgtttat	AA154170
100321	gaatcacccttgtttattgtacatg	AA154170
100322	atcacccttgtttattgtacatggg	AA154170
100323	cccttgtttattgtacatgggagag	AA154170
100324	ccaaattctattacaggttcatttg	AA154170
100325	gttcatttgcttttgcaagaatgga	AA154170
100326	aaggacgtccttgcgagtctcctga	AA154268
100327	aggacgtccttgcgagtctcctgat	AA154268
100328	catgtttccagatggtacggttggc	AA154268
100329	tgtttccagatggtacggttggctc	AA154268
100330	gtttccagatggtacggttggctca	AA154268
100331	tttccagatggtacggttggctcat	AA154268
100332	tggtacggttggctcatctggacta	AA154268
100333	gtacggttggctcatctggactacc	AA154268
100334	tacggttggctcatctggactaccg	AA154268
100335	ggttggctcatctggactaccgtga	AA154268
100336	gttggctcatctggactaccgtgaa	AA154268
100337	ttggctcatctggactaccgtgaag	AA154268
100338	gacgtccttgcgagtctcctgatta	AA154268
100339	acgtccttgcgagtctcctgattac	AA154268
100340	cgtccttgcgagtctcctgattacc	AA154268
100341	tccttgcgagtctcctgattaccag	AA154268
100342	ccttgcgagtctcctgattaccagt	AA154268
100343	cttgcgagtctcctgattaccagtt	AA154268
100344	gcgagtctcctgattaccagttttt	AA154268
100345	acatgtttccagatggtacggttgg	AA154268
100346	atctgccttgctctacctcatgagg	AA154294
100347	tctgccttgctctacctcatgagga	AA154294
100348	taaagctggacgaggcctgttgagt	AA154294
100349	aaagctggacgaggcctgttgagtt	AA154294
100350	aagctggacgaggcctgttgagttt	AA154294
100351	agctggacgaggcctgttgagtttg	AA154294
100352	ccctcactgctcgtgctgaagctgg	AA154294
100353	ctcactgctcgtgctgaagctggga	AA154294
100354	tcactgctcgtgctgaagctgggag	AA154294
100355	tgccttgctctacctcatgaggact	AA154294
100356	gccttgctctacctcatgaggacta	AA154294
100357	ccttgctctacctcatgaggactag	AA154294
100358	cttgctctacctcatgaggactagc	AA154294
100359	ttgctctacctcatgaggactagcc	AA154294
100360	tgctctacctcatgaggactagccg	AA154294
100361	gctctacctcatgaggactagccgg	AA154294
100362	ctctacctcatgaggactagccggg	AA154294
100363	atgtgtctgtcgacgtcacctggga	AA154297
100364	gtgtctgtcgacgtcacctgggatg	AA154297
100365	atgcatgagacctacagcaacctgc	AA154297
100366	tgcatgagacctacagcaacctgct	AA154297
100367	catgagacctacagcaacctgctgt	AA154297
100368	atgagacctacagcaacctgctgtc	AA154297
100369	gagacctacagcaacctgctgtcct	AA154297
100370	agacctacagcaacctgctgtcctt	AA154297
100371	acctacagcaacctgctgtccttga	AA154297
100372	cctacagcaacctgctgtccttgag	AA154297

TABLE 1

SEQ ID NO	sequence	DBAxnID
15165	aaaggctacgctagtcacagtgaga	U02602
15166	tacgctagtcacagtgagacttaca	U02602
15167	tcttgaacatgcgttccagtcccgt	U02602
15168	acataggttcatgcaggtgatgatt	U02602
15169	atgaacaagcctctaatcactgtta	U02602
15170	ctcaactcctgtgccaatccgtttc	U02602
15171	ctctatgctattttcaccaaggcct	U02602
15172	ctcagcaagtttggcatctgcaaac	U02602
15173	ggcatctgcaaacgccaggcccagg	U02602
15174	cgccaggcccaggcctatcagggtc	U02602
15175	cagagagtctgtcccaacaatagca	U02602
15176	gtctgtcccaacaatagcactggta	U02602
15177	ttgtattcgcatcatcacaccgcct	W57384
15178	gcaactgactacactcatttgaaca	W57384
15179	tgcttatcctcaaacagatagtgtt	W57384
15180	ttatcctcaaacagatagtgttaat	W57384
15181	tagtgttaatccacacacctagaga	W57384
15182	tgttaatccacacacctagagagcg	W57384
15183	taatccacacacctagagagcgacc	W57384
15184	tccacacacctagagagcgaccctg	W57384
15185	cacctagagagcgaccctgagtcct	W57384
15186	gagagcgaccctgagtcctaataat	W57384
15187	agcgaccctgagtcctaataatcgt	W57384
15188	gaccctgagtcctaataatcgtatc	W57384
15189	actgactacactcatttgaacactg	W57384
15190	gactacactcatttgaacactgcct	W57384
15191	tacactcatttgaacactgcctaag	W57384
15192	ttgaacactgcctaagcatgcttat	W57384
15193	aacactgcctaagcatgcttatcct	W57384
15194	actgcctaagcatgcttatcctcaa	W57384
15195	taagcatgcttatcctcaaacagat	W57384
15196	gcatgcttatcctcaaacagatagt	W57384
15197	tgaaactcctggccctgaagttatt	U10341
15198	tcctggccctgaagttattgtcaac	U10341
15199	agtttcagctaaggctgcagagaag	U10341
15200	aggagatcttcttcaggaggtcatg	U10341
15201	tgccaaagaacgacaactggatgaa	U10341
15202	acaactggatgaagccgtgggcaac	U10341
15203	gctagactggcttctcgctaacctg	U10341
15204	ctggcttctcgctaacctgtaagct	U10341
15205	atttaccaatacatctgagcagttg	U10341
15206	caatacatctgagcagttgcactgt	U10341
15207	atctgagcagttgcactgtgaaaat	U10341
15208	gtgccctcctgggcaacatgaataa	U10341
15209	taacttgcagaagcagctgcaggct	U10341
15210	tgtcctgcaatggattgcagcctct	U10341
15211	agcctctcaattcaatgtgcccatg	U10341
15212	tcaattcaatgtgcccatgctctac	U10341
15213	caatgtgcccatgctctacttcatg	U10341
15214	gcccatgctctacttcatgggagac	U10341
15215	gaagctccctgaagtttcagctaag	U10341
15216	ccctgaagtttcagctaaggctgca	U10341
15217	tacctgcgagcccgacagaaggagc	W57392
15218	ctgcgagcccgacagaaggagcaga	W57392
15219	ttgagcactaacagaacatgtcgcc	W57392
15220	ctaacagaacatgtcgccgtggtgc	W57392
15221	taacagaacatgtcgccgtggtgca	W57392
15222	acagaacatgtcgccgtggtgcact	W57392
15223	cagaacatgtcgccgtggtgcactc	W57392
15224	agaacatgtcgccgtggtgcactct	W57392
15225	aacatgtcgccgtggtgcactctga	W57392
15226	acatgtcgccgtggtgcactctgag	W57392
15227	catgtcgccgtggtgcactctgaga	W57392
15228	gtgcactctgagacccacagatgag	W57392
15229	tgcgagcccgacagaaggagcagag	W57392
15230	gcactctgagacccacagatgagct	W57392
15231	aggagcagagcacaccttgagcac	W57392
15232	ggagcagagcacaccttgagcact	W57392

SEQ ID NO:	sequence	DBAxnID
57769	aagattctgattctcctaaagcaac	W08680
57770	ctgattctcctaaagcaactgaaca	W08680
57771	tcccgcttaaaggcccaccagagat	W08583
57772	cccgcttaaaggcccaccagagatg	W08583
57773	catacaagtgctcatgggaagtatg	W08583
57774	atacaagtgctcatgggaagtatgc	W08583
57775	tacaagtgctcatgggaagtatgcg	W08583
57776	tggcgttttgcacggagcgatgagc	W08583
57777	ggcgttttgcacggagcgatgagct	W08583
57778	gcgttttgcacggagcgatgagctg	W08583
57779	cgttttgcacggagcgatgagctgc	W08583
57780	gttttgcacggagcgatgagctgca	W08583
57781	tttgcacggagcgatgagctgcaga	W08583
57782	ttgcacggagcgatgagctgcagag	W08583
57783	ccgcttaaaggcccaccagagatgt	W08583
57784	cgcttaaaggcccaccagagatgtc	W08583
57785	gcttaaaggcccaccagagatgtca	W08583
57786	cttaaaggcccaccagagatgtcac	W08583
57787	ttaaaggcccaccagagatgtcaca	W08583
57788	agaagccatacaagtgctcatggga	W08583
57789	aagccatacaagtgctcatgggaag	W08583
57790	ccatacaagtgctcatgggaagtat	W08583
57791	gagttctgctggctcagatattgaa	X57199
57792	tgaccctaatggcaactacctctca	X57199
57793	tccttcgcctcacagagcctgtcat	X57199
57794	cagagcctgtcatacccaaggactg	X57199
57795	ctgtcatacccaaggactggcagaa	X57199
57796	cattggctgtctgtggctccatcct	X57199
57797	gtggctccatcctcttccttctcat	X57199
57798	tcttccttctcatagtgttgctcct	X57199
57799	ttctcatagtgttgctcctcaccat	X57199
57800	ctcctggctaccaccatgttgcaga	X57199
57801	gctaccaccatgttgcagacaggga	X57199
57802	accatgttgcagacagggaagacca	X57199
57803	ccgcgcatgacactaccctggttgc	X57199
57804	ctaccctggttgctctgcaaatggc	X57199
57805	tggttgctctgcaaatggcattgaa	X57199
57806	aagctccctatgcttcctgccacat	X57199
57807	cttcctgccacatatttgaactgta	X57199
57808	ggcctctgatcctgcctggctgtcc	X57199
57809	tgatcctgcctggctgtcctcaccg	X57199
57810	cactgcaggatttccttcgcctcac	X57199
57811	tcaccaaagtgctcagctgggttta	W08528
57812	ccaaagtgctcagctgggtttacag	W08528
57813	tctactatatgcaacttcaataaca	W08528
57814	tgcaacttcaataacatggcgcttg	W08528
57815	aacttcaataacatggcgcttgcca	W08528
57816	atggcgcttgccagcgagacctccc	W08528
57817	agacaaaatgcgcatcacatgggcg	W08528
57818	aatgcgcatcacatgggcgagatca	W08528
57819	catcacatgggcgagatcagtcatt	W08528
57820	gagatcagtcattgcgtccgtcgcc	W08528
57821	atcagtcattgcgtccgtcgccaga	W08528
57822	cgtcgccagacgtctgcatgatttc	W08528
57823	aagtgctcagctgggtttacagata	W08528
57824	cagacgtctgcatgatttcttcaac	W08528
57825	gatagacgtgctcaagtctgccatc	W08528
57826	agacgtgctcaagtctgccatccca	W08528
57827	gctcaagtctgccatcccatcattg	W08528
57828	gtctgccatcccatcattgtctttg	W08528
57829	cccatcattgtctttgtgtggatta	W08528
57830	attaagtctactatatgcaacttca	W08528
57831	aagtctactatatgcaacttcaata	W08528
57832	atatgcacttccttctcgtgtggct	W08211
57833	acttccttctcgtgtggctgactgg	W08211
57834	tttcttgctatcttaagttcggtga	W08211
57835	aatgaagtcactgatccatattcct	W08211
57836	gaagtcactgatccatattcctttt	W08211

SEQ ID NO	sequence	DBAxnID
100373	tacagcaacctgctgtccttgagtg	AA154297
100374	acagcaacctgctgtccttgagtgc	AA154297
100375	tgtctgtcgacgtcacctgggatga	AA154297
100376	tctgtcgacgtcacctgggatgagt	AA154297
100377	ctgtcgacgtcacctgggatgagtg	AA154297
100378	acgtcacctgggatgagtggcagga	AA154297
100379	tcacctgggatgagtggcaggacct	AA154297
100380	tggcaggacctggatgacagtcaga	AA154297
100381	aagctctacagggacgtgatgcatg	AA154297
100382	agctctacagggacgtgatgcatga	AA154297
100383	catgtcgactgatgatcttagacgt	M93422
100384	tcttagacgtgggcaggaaaggcag	M93422
100385	ccactgggcgcttgattagccaagg	M93422
100386	gagccatatcctagccttggatagg	M93422
100387	gggactactagacgccattggggca	M93422
100388	cagggagaccttggctttgggtctg	M93422
100389	cttggctttgggtctgcttcttgcc	M93422
100390	taccacagtgccagccagtcatgtc	M93422
100391	gccagccagtcatgtccctctctga	M93422
100392	tgtccctctctgagttaccgtagcc	M93422
100393	ccctctctgagttaccgtagccact	M93422
100394	tgacgtaccatgtatttcagtgaaa	M93422
100395	ctgtactttggcccttcctcaagct	M93422
100396	tgccacccattctctgcagaggcct	M93422
100397	gcctgggttctggtttggtactgct	M93422
100398	tggtactgctttcctggaaatctcc	M93422
100399	tgctttcctggaaatctccatgtac	M93422
100400	tttcctggaaatctccatgtaccaa	M93422
100401	cctggaaatctccatgtaccaatcg	M93422
100402	ctccatgtaccaatcggtggaccac	M93422
100403	acctcgcctcacatcaaagatgcag	AA154314
100404	cgcctcacatcaaagatgcagagaa	AA154314
100405	gaagttgcaaccatcgacagaagga	AA154314
100406	agttgcaaccatcgacagaaggagg	AA154314
100407	ttgcaaccatcgacagaaggaggaa	AA154314
100408	gtgtctcacgcaggagcgtcaatgt	AA154314
100409	gtctcacgcaggagcgtcaatgtcc	AA154314
100410	ctcacgcaggagcgtcaatgtcctc	AA154314
100411	agcgtcaatgtcctctgcttcatca	AA154314
100412	cgtcaatgtcctctgcttcatcaga	AA154314
100413	tcaatgtcctctgcttcatcagaca	AA154314
100414	aatgtcctctgcttcatcagacact	AA154314
100415	cctcacatcaaagatgcagagaagg	AA154314
100416	tgtcctctgcttcatcagacactgg	AA154314
100417	catacaagtggagcttccagctcaa	AA154314
100418	agtggagcttccagctcaatgaatt	AA154314
100419	tggagcttccagctcaatgaattag	AA154314
100420	gagcttccagctcaatgaattagat	AA154314
100421	ttccagctcaatgaattagataata	AA154314
100422	gagagaatctcttttctccaagaaa	AA154314
100423	atactacatgtctttgaagtctgaa	AA154314
100424	ttatcaatcaaataatgctaatcca	AA154514
100425	atcaaataatgctaatccacacacc	AA154514
100426	ccacacaccagaaggtcggacatgc	AA154514
100427	cacacaccagaaggtcggacatgca	AA154514
100428	acacaccagaaggtcggacatgcac	AA154514
100429	acaccagaaggtcggacatgcaccc	AA154514
100430	aggtcggacatgcaccctaataatt	AA154514
100431	ggtcggacatgcaccctaataattg	AA154514
100432	gtcggacatgcaccctaataattgt	AA154514
100433	cggacatgcaccctaataattgtgt	AA154514
100434	ggacatgcaccctaataattgtgtc	AA154514
100435	gacatgcaccctaataattgtgtcc	AA154514
100436	caaataatgctaatccacacaccag	AA154514
100437	ataatgctaatccacacaccagaag	AA154514
100438	atgctaatccacacaccagaaggtc	AA154514
100439	tgctaatccacacaccagaaggtcg	AA154514
100440	gctaatccacacaccagaaggtcgg	AA154514

TABLE 1

SEQ ID NO	sequence	DBAxnID
15233	agcagagcacacccttgagcactaa	W57392
15234	acacccttgagcactaacagaacat	W57392
15235	cacccttgagcactaacagaacatg	W57392
15236	acccttgagcactaacagaacatgt	W57392
15237	ccttgagcactaacagaacatgtcg	W57392
15238	tccagcacaccagatctacttctta	M60273
15239	acaccagatctacttcttagcccgc	M60273
15240	acaactcatgctgagtcacttccct	M60273
15241	catgctgagtcacttccctcttcct	M60273
15242	tcccaacagtccaagtctccactta	M60273
15243	cagtccaagtctccacttatcagct	M60273
15244	aagtctccacttatcagctctccat	M60273
15245	ccacttatcagctctccatgatctg	M60273
15246	tctccatgatctgtgatctgtgcta	M60273
15247	gtgatctgtgctagtggactctata	M60273
15248	tctgatttctatgtctacagacttg	M60273
15249	agacttgcctagtatgtatggctca	M60273
15250	ccaggtgtcaccacttatgttgaga	M60273
15251	ctgctggaaaccaggccattggtag	M60273
15252	gaaaccaggccattggtagctgctc	M60273
15253	ttggtagctgctcacaccttcctt	M60273
15254	gttgttctccaaagctccaaggcat	M60273
15255	ctccaaagctccaaggcatgttctt	M60273
15256	agctccaaggcatgttcttcttccc	M60273
15257	atcaactgtctgttttgatttctgg	M60273
15258	cgcacccgcactatgaagatcgtta	U07602
15259	ttgactaccagccggccaagcaagg	U07602
15260	gtcatcttcctgctcatcatcatct	U07602
15261	ttcctgctcatcatcatcttcttga	U07602
15262	atcatcttcttgacagtcctactac	U07602
15263	ttcttgacagtcctactactcaagc	U07602
15264	ctccgcaagcgccatcgcaagcata	U07602
15265	aagcgccatcgcaagcatacacagc	U07602
15266	catcgcaagcatacacagcagcggg	U07602
15267	gactacgggcatcctgtctacatcg	U07602
15268	gggcatcctgtctacatcgtccagg	U07602
15269	cagagcccggcgaacatctactaca	U07602
15270	accagccggccaagcaaggagtcag	U07602
15271	gagtcagacaacactgtcaagacag	U07602
15272	gacaacactgtcaagacagccacac	U07602
15273	aagacagccacacaggctcctggtc	U07602
15274	gactctgacagcttcttcaactcca	U07602
15275	gacagcttcttcaactccaaggtag	U07602
15276	aactccaaggtagcattgttcgcag	U07602
15277	ggctgtgtcatcttcctgctcatca	U07602
15278	gcccgtgagctgcaggagagcaaga	U11075
15279	aatgagctggcccttatgagccagg	U11075
15280	gacgccaggacaagccttccactct	U11075
15281	gccaggacaagccttccactcttag	U11075
15282	agccttccactcttaggacagagtt	U11075
15283	ccactcttaggacagagttgaacgt	U11075
15284	tgaacgtggctctgtggacctagag	U11075
15285	acgtggctctgtggacctagaggaa	U11075
15286	ggagatcccttcctgttgactacag	U11075
15287	gatcccttcctgttgactacagggc	U11075
15288	ctgttgactacagggcccaggactg	U11075
15289	ttgactacagggcccaggactggga	U11075
15290	tttggcagccacctggatctggagc	U11075
15291	agccacctggatctggagcgcatgc	U11075
15292	cacctggatctggagcgcatgcaag	U11075
15293	ctggacaatatttcctatcgcaggg	U11075
15294	aatatttcctatcgcagggaatctg	U11075
15295	tcctatcgcagggaatctgccatct	U11075
15296	agggaatctgccatctgacctccag	U11075
15297	tattcccgcaagagcctctgccagg	U11075
15298	gactcccaatgtacagtaggcgttt	U51124
15299	atttttgatccccttgactgctggc	U51124
15300	tgacacatttacgacacgggtgtca	U51124
57837	gtcactgatccatattccttttggg	W08211
57838	ccatattccttttgggctcagtgta	W08211
57839	tattcctttgggctcagtgtagca	W08211
57840	atatgctcatttacttgagggaaac	W08211
57841	aaactcctttcctctgtttctgctg	W08211
57842	ctcctttcctctgtttctgctgtca	W08211
57843	tcctctgtttctgctgtcactgaga	W08211
57844	ttctcgtgtggctgactggctagga	W08211
57845	tcgtgtggctgactggctaggacac	W08211
57846	gctaggacacaatcttcggcggctt	W08211
57847	tcttcggcggctttgggttgaatgt	W08211
57848	tgaatgtactccgcaagttaattta	W08211
57849	atgtactccgcaagttaatttagcg	W08211
57850	gggaacacttgatcttctcccactt	W08211
57851	acttgatcttctcccactttaatat	W08211
57852	cctccaggaactgaatccagaaatg	X51905
57853	ctacaccaactgggccatcggcctg	X51905
57854	cctccaatgtgaccatgaaccttta	X51905
57855	atgtgaccatgaacctttagtcttc	X51905
57856	ccatgaacctttagtcttcagccat	X51905
57857	agtcttcagccatgtatgtaggtca	X51905
57858	taggtcacagtttgcttcttccctg	X51905
57859	acagtttgcttcttccctgacatgt	X51905
57860	tgcttcttccctgacatgtgatatg	X51905
57861	ttccctgacatgtgatatgagctca	X51905
57862	tgcactaggagctcctgatcaaata	X51905
57863	aggagctcctgatcaaataaagtta	X51905
57864	caactgggccatcggcctgagcgtg	X51905
57865	ggccatcggcctgagcgtggctgac	X51905
57866	agacctcaaagacctgtgactgcca	X51905
57867	caaagacctgtgactgccagtctct	X51905
57868	cctgtgactgccagtctctaggctg	X51905
57869	actgccagtctctaggctgtagaac	X51905
57870	agtctctaggctgtagaacacaaac	X51905
57871	cacaaacctccaatgtgaccatgaa	X51905
57872	ctccggagcagtcatcattgtagac	W08715
57873	cagtcatcattgtagaccaaggaag	W08715
57874	ggtcacacttactgtggaggctctg	W08715
57875	ctgttgctcaaagcagtctactgca	W08715
57876	gttgctcaaagcagtctactgcagt	W08715
57877	ctcaaagcagtctactgcagtcagc	W08715
57878	caaagcagtctactgcagtcagcgg	W08715
57879	aagcagtctactgcagtcagcggtg	W08715
57880	tctactgcagtcagcggtgatcatt	W08715
57881	tactgcagtcagcggtgatcattat	W08715
57882	ctgcagtcagcggtgatcattattc	W08715
57883	cggtgatcattattccgttgacttt	W08715
57884	gtcatcattgtagaccaaggaaggc	W08715
57885	ttatggctacatctctctttgcttc	W08715
57886	ctctttgcttcaccctgaaatatac	W08715
57887	ctgaaatatacgctccctttatgtg	W08715
57888	gaaatatacgctccctttatgtgtg	W08715
57889	aatatacgctccctttatgtgtgga	W08715
57890	tatacgctccctttatgtgtggatc	W08715
57891	tatccccctgaggtcacacttactgt	W08715
57892	gtcaggacatcgcatagcaactaat	W08777
57893	tcaggacatcgcatagcaactaatg	W08777
57894	gcactagatctcatcagtatatgga	W08777
57895	cactagatctcatcagtatatggaa	W08777
57896	gacacatgcagacccactatgtcta	W08777
57897	acatgcagacccactatgtctagaa	W08777
57898	atgcagacccactatgtctagaacc	W08777
57899	tagaaccgcactggactgctgcgcc	W08777
57900	agaaccgcactggactgctgcgcct	W08777
57901	ctggactgctgcgccttgacccctg	W08777
57902	tgctgcgccttgaccccctgcagtgt	W08777
57903	cgccttgaccccctgcagtgtggact	W08777
57904	atagcaactaatgcacaatatccat	W08777
100441	taatccacacaccagaaggtcggac	AA154514
100442	aatccacacaccagaaggtcggaca	AA154514
100443	atccacacaccagaaggtcggacat	AA154514
100444	acatctactccgtattccgcaatgc	M93275
100445	ttgttaacaacacgcctctcaactg	M93275
100446	cagcttcttagaaccaagggcctca	M93275
100447	cttagaaccaagggcctcattatgg	M93275
100448	accaagggcctcattatggtcactc	M93275
100449	ggcctcattatggtcactcacagct	M93275
100450	gtcactcacagctcagttatggtct	M93275
100451	ggaacctaaaagctcagatgcactt	M93275
100452	ctcagatgcacttacagtcttgtct	M93275
100453	tacagtcttgtctgtggcctttgta	M93275
100454	tgtaaacgtctgtctggaccgaata	M93275
100455	cgtctgtctggaccgaataaagatt	M93275
100456	cgcctctcaactggctggtaggtcc	M93275
100457	atcctcagtctaccgaggtgaacaa	M93275
100458	tgaacaaggccagcctgaaggtcca	M93275
100459	aggccagcctgaaggtccagcagtc	M93275
100460	ctccttgtcaccagagcatgatgtt	M93275
100461	gtcaccagagcatgatgttgctggc	M93275
100462	tgatgttgctggccagatgacccct	M93275
100463	ccagatgacccctttgctgtattg	M93275
100464	atgtccatggctcccatctactcaa	AA154700
100465	atggctcccatctactcaatggcgt	AA154700
100466	gcagctcgtaggtctacgtatacgt	AA154700
100467	tctacgtatacgttaacttccagca	AA154700
100468	tatacgttaacttccagcatccggt	AA154700
100469	tccagcatccggtggacgcgaaaag	AA154700
100470	agcatccggtggacgcgaaaagtgc	AA154700
100471	atgttatataccgctagctactatg	AA154700
100472	ttatataccgctagctactatgtgt	AA154700
100473	tataccgctagctactatgtgtcat	AA154700
100474	gctagctactatgtgtcatgacgtc	AA154700
100475	agctactatgtgtcatgacgtctca	AA154700
100476	gctcccatctactcaatggcgtctc	AA154700
100477	gtgtcatgacgtctcagagtgatgc	AA154700
100478	cccatctactcaatggcgtctctgt	AA154700
100479	gacctgcagcactgtgctgacacga	AA154700
100480	cactgtgctgacacgaggcgatggt	AA154700
100481	tgtgctgacacgaggcgatggtcta	AA154700
100482	tctacgagacgttgagcccggcggt	AA154700
100483	tgaagcgcagctcgtaggtctacgt	AA154700
100484	agcgcagctcgtaggtctacgtata	AA154700
100485	aactgagtgcatcaaccctcaagac	M22679
100486	gtgcatcaaccctcaagactacagc	M22679
100487	agattctgtccctaaacttgtggct	M22679
100488	tgacttcatggctaagaagtttccg	M22679
100489	tgacctgcttcgttctggaaagagc	M22679
100490	catccgtaccgtcctgactttctga	M22679
100491	taccgtcctgactttctgagatcat	M22679
100492	tttctgagatcatgtggatgccttc	M22679
100493	aaaccagactgattcaagcaccagc	M22679
100494	ccacatcacagccttaatctttgct	M22679
100495	tctttagagacacagccaataaagt	M22679
100496	gagacacagccaataaagtacttgt	M22679
100497	tcaagactacagcaaacccatccag	M22679
100498	caaacccatccaggaagttctccag	M22679
100499	tctccaggagatgaccgacggaggg	M22679
100500	agtcatcggccgccttgacaccatg	M22679
100501	cggccgccttgacaccatgacttct	M22679
100502	gacttctgccctgctgagctgccat	M22679
100503	gctgagctgccatgcagcatgtggt	M22679
100504	gaacctctccatgaaccccatgttg	M22679
100505	tgacattagctctgagacgtctgga	AA154734
100506	cattagctctgagacgtctggagac	AA154734
100507	gatttttcactttctgtgaaacgat	AA154734
100508	ttcatgcacatgacatttgctttac	AA154734

TABLE 1

SEQ ID NO	sequence	DBAxnID
15301	ctctgagcacccttgagaggctcta	U51124
15302	gcacccttgagaggctctaccaggg	U51124
15303	actctagcacagccccagatgacat	U51124
15304	gcacagccccagatgacatttccag	U51124
15305	agactgcagaatgtccatggagctg	U51124
15306	gtccatggagctgtctagtcgacag	U51124
15307	aggactacattgccagcttcctgct	U51124
15308	tctctcacttcatctagcaagtctg	U51124
15309	acttcatctagcaagtctgcccctc	U51124
15310	tgctggccctctaaatgcatggcct	U51124
15311	ccctctaaatgcatggcctttgttc	U51124
15312	aaatgcatggcctttgttccaggtc	U51124
15313	cccttgtcatccttaagttgaatct	U51124
15314	tcatccttaagttgaatctaataag	U51124
15315	taataagccataggtctggggacag	U51124
15316	atgtccaccatccaaaatgctgata	U51124
15317	aaaccatgacacatttacgacacgg	U51124
15318	gctattggaccatgaacccagtcat	W57425
15319	tattggaccatgaacccagtcatca	W57425
15320	tggactgccgtcatgaatacaccaa	W57425
15321	gactgccgtcatgaatacaccaact	W57425
15322	ctgccgtcatgaatacaccaacttg	W57425
15323	cgtcatgaatacaccaacttgccca	W57425
15324	tcatgaatacaccaacttgcccatc	W57425
15325	atgaatacaccaacttgcccatcca	W57425
15326	cagtgtgtcagacctgggttccaca	W57425
15327	gtgtcagacctgggttccacaatta	W57425
15328	gtcagacctgggttccacaattacg	W57425
15329	acttttatgacgttatcagtctatt	W57425
15330	tcagcatcactctcctgcttcagtc	W57425
15331	catcactctcctgcttcagtcttgc	W57425
15332	tcactctcctgcttcagtcttgcag	W57425
15333	actctcctgcttcagtcttgcagat	W57425
15334	tctcctgcttcagtcttgcagatgt	W57425
15335	tcctgcttcagtcttgcagatgtcc	W57425
15336	ctgcttcagtcttgcagatgtcccg	W57425
15337	actggactgccgtcatgaatacacc	W57425
15338	gtttgaccttcacatcggttcatgg	U11860
15339	tgaccttcacatcggttcatgggtg	U11860
15340	ctcaaaccagggagcgtggcttagg	U11860
15341	ccctgatgtgtgacacgcctgccta	U11860
15342	tgtgtgacacgcctgcctaactaga	U11860
15343	atcactgtcccatggcgagaggtca	U11860
15344	actgtcccatggcgagaggtcagaa	U11860
15345	ccctgaagcaggacctggggacagc	U11860
15346	aatgaaaccttgcaggtcctgccac	U11860
15347	gaaaccttgcaggtcctgccacaga	U11860
15348	ttgcaggtcctgccacagaagcaag	U11860
15349	gtcctgccacagaagcaagaagcag	U11860
15350	aatggataatcgctcaggtggtaag	U11860
15351	taatcgctcaggtggtaagtggctt	U11860
15352	tcgatgatcgtcacctgcagcacac	U11860
15353	acctgcagcacacctttgtgagaaa	U11860
15354	catgggcatccttttcttccagata	U11860
15355	gggcatccttttcttccagatatag	U11860
15356	tttcttccagatataggtagcctca	U11860
15357	ggtagcctcaaaccagggagcgtgg	U11860
15358	cttgatcacagggatcccttggagc	X98519
15359	cacagggatcccttggagcaagtag	X98519
15360	accccagagaacttcagctgatttc	X98519
15361	gagaacttcagctgatttcatctgt	X98519
15362	ttcagctgatttcatctgtaacccg	X98519
15363	atggaggtctcagctggaagtctga	X98519
15364	gtctcagctggaagtctgagctctt	X98519
15365	tgacacctatactccaaacttgctg	X98519
15366	tccaaacttgctgccggctgaaggc	X98519
15367	ctgatgtcctgaggtggaagtccac	X98519
15368	gcaaaagttctctgcatgtgtgtac	X98519

SEQ ID NO:	sequence	DBAxnID
57905	agcaactaatgcacaatatccatga	W08777
57906	gcaactaatgcacaatatccatgat	W08777
57907	gaaatacatgtacccgatagaaaga	W08777
57908	acatgtacccgatagaaagaactga	W08777
57909	aggccaccggtacaaggctatatgc	W08777
57910	gccaccggtacaaggctatatgcac	W08777
57911	ccaccggtacaaggctatatgcact	W08777
57912	atcctatgctcaagaggaagaggtg	X64414
57913	ttgtcacatgggtaacctaagaaga	X64414
57914	tttttgcaaaccctgattgctgcac	X64414
57915	caaaccctgattgctgcacctctct	X64414
57916	ctgattgctgcacctctctgcaatt	X64414
57917	cctctctgcaatttctccaggttag	X64414
57918	tgcaatttctccaggttaggctggg	X64414
57919	actctgggatgctctgtatacaaag	X64414
57920	ttgaatgggctgatctcaggcctgt	X64414
57921	gggctgatctcaggcctgtcctgtg	X64414
57922	atctcaggcctgtcctgtgcttgc	X64414
57923	tgctttgaaaccttgttcagatgt	X64414
57924	acctgtccactactcaagacacaag	X64414
57925	ccactactcaagacacaagggcaca	X64414
57926	cagcccactgggacacttgtaaaga	X64414
57927	agctctgtaatgtgccgatggcacc	X64414
57928	gtaatgtgccgatggcacctggctc	X64414
57929	ctggctcggttttcattctgtatat	X64414
57930	tcattctgtatattcaaggatatca	X64414
57931	gatatcacacatatgtattaaatct	X64414
57932	ggaattactatacccagctaagcaa	W15867
57933	gctaagcaacaatacccaaggaagat	W15867
57934	acacaacagctcagtaaccacttcc	W15867
57935	cacaacagctcagtaaccacttcca	W15867
57936	acaacagctcagtaaccacttccag	W15867
57937	ggagcacaacatgctggtgaaatat	W15867
57938	gagcacaacatgctggtgaaatatg	W15867
57939	agcacaacatgctggtgaaatatgt	W15867
57940	aggatgacacacaacagctcagtaa	W15867
57941	ggatgacacacaacagctcagtaac	W15867
57942	gatgacacacaacagctcagtaacc	W15867
57943	atgacacacaacagctcagtaacca	W15867
57944	tgacacacaacagctcagtaaccac	W15867
57945	gacacacaacagctcagtaaccact	W15867
57946	acacacaacagctcagtaaccactt	W15867
57947	cacacaacagctcagtaaccacttc	W15867
57948	caagggctctgaggtactggagaca	X17018
57949	cacgctcactacgttcttcagcaga	X17018
57950	atctctatgagcaacaggtattcat	X17018
57951	aacaggtattcatccaatctgctcc	X17018
57952	cttagccccggatcctgctgttagc	X17018
57953	ggatcctgctgttagctgccgcaca	X17018
57954	ctgccgcacactctgcatttgtgaa	X17018
57955	cacactctgcatttgtgaatatttg	X17018
57956	tctgtgctttctttggaaccaattg	X17018
57957	ctttctttggaaccaattgctgaat	X17018
57958	gctgaatcaccatgaggatgatctt	X17018
57959	tgatcttagtggacccacattttcc	X17018
57960	gctcactacgttcttcagcagacgg	X17018
57961	tacgttcttcagcagacggaagtct	X17018
57962	tcgccagggctctttagtactagaa	X17018
57963	ccagggctctttagtactagaagag	X17018
57964	tccacaagccaaagatgaggccgca	X17018
57965	agatgaggccgcacctcaatctcta	X17018
57966	ggccgcacctcaatctctatgagca	X17018
57967	tcaatctctatgagcaacaggtatt	X17018
57968	tgtccacacttgatacatgaataca	W15874
57969	taatggctcaccagatggatccctc	W15874
57970	gaaccgctatacctgagatggtgtc	W15874
57971	ctatacctgagatggtgtcgacatc	W15874
57972	tgatttgagcgtcagacccaaccga	W15874

SEQ ID NO:	sequence	DBAxnID
100509	atgacatttgctttaccatgatcta	AA154734
100510	gctttaccatgatctataaaacatt	AA154734
100511	gtggcgatctaaccacaacaaaatg	AA154734
100512	gcgatctaaccacaacaaaatgcct	AA154734
100513	ccacaacaaaatgccttggttggct	AA154734
100514	gccttggttggctcagatcggtcta	AA154734
100515	ttggttggctcagatcggtctacag	AA154734
100516	gttggctcagatcggtctacagatt	AA154734
100517	tagctctgagacgtctggagacttc	AA154734
100518	gacgtctggagacttccggaaagct	AA154734
100519	agacttccggaaagctctgctgact	AA154734
100520	agctctgctgactctggcagatgta	AA154734
100521	tctgctgactctggcagatgtaagg	AA154734
100522	tgactgtttattctctgcttcccct	AA154734
100523	cagaacctaggaccatgagattttt	AA154734
100524	tgagatttttcactttctgtgaaac	AA154734
100525	gtcagtctgcttttctcgtcccctg	AA154968
100526	agtctgcttttctcgtcccctgata	AA154968
100527	tgctgcctctctcaatgaccacttg	AA154968
100528	cttgccccagcacacgtttcgtgtc	AA154968
100529	gccccagcacacgtttcgtgtcatc	AA154968
100530	ccagcacacgtttcgtgtcatctgg	AA154968
100531	gcacacgtttcgtgtcatctggaca	AA154968
100532	gtttcgtgtcatctggacaggaagc	AA154968
100533	tcgtgtcatctggacaggaagcgat	AA154968
100534	tgtcatctggacaggaagcgatacc	AA154968
100535	aagcgatacccagaaggagtgtgtg	AA154968
100536	cgatacccagaaggagtgtgtgctt	AA154968
100537	ctgcttttctcgtcccctgatagtg	AA154968
100538	tcgtcccctgatagtgggctccaag	AA154968
100539	tcccctgatagtgggctccaagatg	AA154968
100540	gaccttgctactcacggttgacgag	AA154968
100541	cttgctactcacggttgacgaggca	AA154968
100542	gctactcacggttgacgaggcacct	AA154968
100543	actcacggttgacgaggcactttg	AA154968
100544	cgaggcactttgagtgtggaatgg	AA154968
100545	tcgtggtcttcccagcaccattgtg	AA154997
100546	tcttcccagcaccattgtggcccag	AA154997
100547	tgcccacttggaacaccttggagag	AA154997
100548	cttggaacaccttggagagatgctt	AA154997
100549	tcttgattccagctaccaagtcctc	AA154997
100550	tgattccagctaccaagtcctctgg	AA154997
100551	ctaccaagtcctctggctcggcttc	AA154997
100552	ccaagtcctctggctcggcttcaaa	AA154997
100553	cctctggctcggcttcaaagtactc	AA154997
100554	gctcggcttcaaagtactcgttcct	AA154997
100555	cttcaaagtactcgttcctgagagc	AA154997
100556	cacaccagtaggagggcataaggaa	AA154997
100557	tcccagcaccattgtggcccaggag	AA154997
100558	ctgttatctgtccttcgtagaggtt	AA154997
100559	tctgtccttcgtagaggttcagggt	AA154997
100560	gtccttcgtagaggttcagggtcag	AA154997
100561	ggtctctgatgcccatcttgtcctt	AA154997
100562	ctctgatgcccatcttgtccttatt	AA154997
100563	ccatcttgtccttattgcccacttg	AA154997
100564	tcttgtccttattgcccacttggaa	AA154997
100565	tacagctaatgcacagcagaaatgc	AA155007
100566	ctaagggccaagactcacatcgaga	AA155007
100567	catctgtatctacgaatgtggtgta	AA155007
100568	ctgtatctacgaatgtggtgtactc	AA155007
100569	actcgatcagtggcacatcgcaaag	AA155007
100570	cgatcagtggcacatcgcaaagttt	AA155007
100571	tcagtggcacatcgcaaagtttgag	AA155007
100572	caagtgcgcctgggtcttacacagc	AA155007
100573	ctgggtcttacacagcctgacagct	AA155007
100574	ggtcttacacagcctgacagctgtg	AA155007
100575	cttacacagcctgacagctgtgcat	AA155007
100576	cctgacagctgtgcatgagtgtgat	AA155007

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
15369	gttctctgcatgtgtgtacagatga	X98519	57973	tttgagcgtcagacccaaccgatac	W15874	100577	gccaagactcacatcgagatcgtcg	AA155007
15370	gctgtgttagcatctctgggaatct	X98519	57974	gagcgtcagacccaaccgatactgg	W15874	100578	cacgtagattccgacgcttacaaca	AA155007
15371	ttagcatctctgggaatcttctctt	X98519	57975	atactggctctgcgctgctactgct	W15874	100579	gtagattccgacgcttacaacacga	AA155007
15372	ggaatcttctcttgccttggcctgg	X98519	57976	gctctgcgctgctactgcttccagc	W15874	100580	tccgacgcttacaacacgatcggcc	AA155007
15373	aaacctgggctcttggcacccatga	X98519	57977	cgctgctactgcttccagcatcaag	W15874	100581	gacgcttacaacacgatcggccatc	AA155007
15374	ttggcacccatgatcccggtggaaa	X98519	57978	tgctactgcttccagcatcaagatc	W15874	100582	gcttacaacacgatcggccatctgt	AA155007
15375	ccaggaattccaaacctgcagagga	X98519	57979	tactgcttccagcatcaagatctag	W15874	100583	acgatcggccatctgtatctacgaa	AA155007
15376	attccaaacctgcagaggaccccag	X98519	57980	accagatggatccctctatgcggca	W15874	100584	atcggccatctgtatctacgaatgt	AA155007
15377	cagaggaccccagagaacttcagct	X98519	57981	tggatccctctatgcggcacgaggc	W15874	100585	ggcccagcatttgggggacagcacg	AA155053
15378	acccctcagggagcagcaggatgtg	U66620	57982	cctctatgcggcacgaggcaaggat	W15874	100586	attgctatcgatggcactgaagggc	AA155053
15379	tgctttgaatcttccagggaagcct	U66620	57983	tggcgacgctatgtcgtggcatctc	W15874	100587	aatctctgttggtcctgagaccttc	AA155053
15380	acctcaggctcctgcgagcagtgct	U66620	57984	cgacgctatgtcgtggcatctcgat	W15874	100588	ggtcctgagaccttcggcagaatca	AA155053
15381	ggctcctgcgagcagtgctcctgca	U66620	57985	cgctatgtcgtggcatctcgatgac	W15874	100589	tcctgagaccttcggcagaatcatg	AA155053
15382	cccagcctgttctgtactggggaca	U66620	57986	gtggcatctcgatgacgtcaagaac	W15874	100590	gagaccttcggcagaatcatgaatg	AA155053
15383	ctgttctgtactggggacagcagtc	U66620	57987	gcatctcgatgacgtcaagaaccgc	W15874	100591	gaccttcggcagaatcatgaatgtc	AA155053
15384	ccacagtgacactgggacagccctg	U66620	57988	ccagtaaacagtgtccactgcaagc	X55842	100592	gagtcctagcaaagcacgcaattct	AA155053
15385	gcactccacagtgtccctgtggtaa	U66620	57989	tgcaagcctggtgatactcacataa	X55842	100593	gtcctagcaaagcacgcaattctgc	AA155053
15386	cacagtgtccctgtggtaactgttc	U66620	57990	agacaggcacctgggagcccaggag	X55842	100594	cctagcaaagcacgcaattctgccc	AA155053
15387	tgtactgtctccttaactgatgtca	U66620	57991	cagataagccgttcccgagagctgc	X55842	100595	aaagcacgcaattctgccctattca	AA155053
15388	gtctccttaactgatgtcacccagt	U66620	57992	cagcttcccttctttgcagtattgt	X55842	100596	agcacgcaattctgccctattcatg	AA155053
15389	ttaactgatgtcacccagttttaat	U66620	57993	tcatgatggctctcccaagatgcca	X55842	100597	atcgatggcactgaagggcttgcta	AA155053
15390	gaagcctccgattcttccaggtttg	U66620	57994	tggctctcccaagatgccaagtgct	X55842	100598	cacgcaattctgccctattcatgct	AA155053
15391	aggtttgtcacccggagttagcatg	U66620	57995	gatgccaagtgctcttgtgtccccc	X55842	100599	cgatggcactgaagggcttgctaga	AA155053
15392	gtcacccggagttagcatgtcccag	U66620	57996	aagtgctcttgtgtcccccagaggc	X55842	100600	cactgaagggcttgctagaggccag	AA155053
15393	gtcccaggctcgcagacaacactgc	U66620	57997	cgggcctgctgcggaatggtgcaac	X55842	100601	cttgctagaggccagacagtactgg	AA155053
15394	ggctcgcagacaacactgcagggtg	U66620	57998	ccatcatcgaacaaactgatgcaaa	X55842	100602	ggcgacaatcaaaatctctgttggt	AA155053
15395	ttctgttgagcatgggctctgaacc	U66620	57999	gaactgagccagacactgtaaatac	X55842	100603	cgacaatcaaaatctctgttggtcc	AA155053
15396	tgggctctgaacccacagaactgac	U66620	58000	gatactcacataaccactcactctg	X55842	100604	acaatcaaaatctctgttggtcctg	AA155053
15397	ctgaacccacagaactgacaaagcc	U66620	58001	accactcactctgtgcacagcaaca	X55842	100605	tcaaaatctctgttggtcctgagac	AA155053
15398	ttgggctgtcactgatgctgtctgg	M32136	58002	cactctgtgcacagcaacaaggacc	X55842	100606	ctgcatctccacacaggagttcctc	AA003876
15399	ggctgtcactgatgctgtctgggct	M32136	58003	ttccacaccatcagtctctggggaa	X55842	100607	ctccacacaggagttcctctcatgc	AA003876
15400	cttgtgtgctgctcaaaccagccag	M32136	58004	accatcagtctctggggaagtccag	X55842	100608	gtcagctacgtcgcctcacaaccag	AA003876
15401	gtgtgctgctcaaaccagccagacc	M32136	58005	agtctctggggaagtccagcaacca	X55842	100609	tacgtcgcctcacaaccagatggga	AA003876
15402	tgtgctgctcaaaccagccagacca	M32136	58006	agtccagcaaccagacaggcacctg	X55842	100610	gcctcacaaccagatgggaaacaag	AA003876
15403	gtgctgctcaaaccagccagaccac	M32136	58007	gcaaccagacaggcacctgggagcc	X55842	100611	caagtgcagggcctttcaagtgctt	AA003876
15404	tgctgctcaaaccagccagaccact	M32136	58008	tgagtgagacgcaccgctagcgtgc	W15972	100612	ggcctttcaagtgcttctcatgtaa	AA003876
15405	gctgctcaaaccagccagaccactg	M32136	58009	agtgagacgcaccgctagcgtgcgg	W15972	100613	ctttcaagtgcttctcatgtaagta	AA003876
15406	tgctcaaaccagccagaccactgat	M32136	58010	ccctgcgtcagtacttcttcgagac	W15972	100614	tcaagtgcttctcatgtaagtaata	AA003876
15407	gctcaaaccagccagaccactgatg	M32136	58011	cctgcgtcagtacttcttcgagacg	W15972	100615	agtgcttctcatgtaagtaataaca	AA003876
15408	ctcaaaccagccagaccactgatga	M32136	58012	gtcagtacttcttcgagacgcgctg	W15972	100616	aatacacaagtgttgcctgctccat	AA003876
15409	tcaaaccagccagaccactgatgag	M32136	58013	tcagtacttcttcgagacgcgctgc	W15972	100617	acacaagtgttgcctgctccatcag	AA003876
15410	gtctgggctccgcttgtgtgctgct	M32136	58014	agtacttcttcgagacgcgctgcaa	W15972	100618	cacacaggagttcctctcatgcagg	AA003876
15411	aaaccagccagaccactgatgaggt	M32136	58015	gtacttcttcgagacgcgctgcaag	W15972	100619	acaggagttcctctcatgcaggtag	AA003876
15412	ctgggctccgcttgtgtgctgctca	M32136	58016	acttcttcgagacgcgctgcaaggc	W15972	100620	ggagttcctctcatgcaggtagctg	AA003876
15413	tgggctccgcttgtgtgctgctcaa	M32136	58017	agacgcgctgcaaggccgaaagcgc	W15972	100621	caggtagctgcccctgcaagtatac	AA003876
15414	ggctccgcttgtgtgctgctcaaac	M32136	58018	gacgcgctgcaaggccgaaagcgct	W15972	100622	cctgcaagtatacctcagggaccgc	AA003876
15415	ctccgcttgtgtgctgctcaaacca	M32136	58019	cactggctctcagaatgccaggcta	W15972	100623	ccatcccagcaggtcagctacgtcg	AA003876
15416	tccgcttgtgtgctgctcaaaccag	M32136	58020	acgcaccgctagcgtgcgggtgagc	W15972	100624	tcccagcaggtcagctacgtcgcct	AA003876
15417	ccgcttgtgtgctgctcaaaccagc	M32136	58021	tggctctcagaatgccaggctaagc	W15972	100625	caggtcagctacgtcgcctcacaac	AA003876
15418	cgcttgtgtgctgctcaaaccagcc	M32136	58022	ctggcagtatgcgacgcatgagtgg	W15972	100626	ctggcatgtgccagtcacaatttac	AA155064
15419	tgtgcagactacacactgtgtatct	W57490	58023	acgcatgagtggctgggtgaccgac	W15972	100627	ggcatgtgccagtcacaatttactc	AA155064
15420	cagactacacactgtgtatctcctc	W57490	58024	tgaccgaccggcggacagctgtgga	W15972	100628	tttactcccaatcagcatacagtag	AA155064
15421	atctcctcgagagactttccacaca	W57490	58025	gaccgaccggcggacagctgtggac	W15972	100629	tactcccaatcagcatacagtagaa	AA155064
15422	tctcctcgagagactttccacacag	W57490	58026	tgcctgcggcaggtggcagtcccct	W15972	100630	ctcccaatcagcatacagtagaaga	AA155064
15423	cctcgagagactttccacacaggaa	W57490	58027	cagtcccctgcgtcagtacttcttc	W15972	100631	cccaatcagcatacagtagaagaca	AA155064
15424	tcgagagactttccacacaggaact	W57490	58028	gtcccctgcgtcagtacttcttcga	W15972	100632	ctctgcgttaggcctcctctgctgc	AA155064
15425	cgagagactttccacacaggaactt	W57490	58029	gacctctgcgagtcatctcacgcag	W15997	100633	ctgcgttaggcctcctctgctgcct	AA155064
15426	ttctcaaaaatacactctccttcca	W57490	58030	tgcgagtcatctcacgcagacgggg	W15997	100634	gttcatatagctctcagcttcggtg	AA155064
15427	tctcaaaaatacactctccttccat	W57490	58031	tcctcacctgtgctacgatctcaca	W15997	100635	tcatatagctctcagcttcggtgaa	AA155064
15428	ccttccatctccggtcattgctgtc	W57490	58032	tcacctgtgctacgatctcacatgc	W15997	100636	atatagctctcagcttcggtgaact	AA155064
15429	cttccatctccggtcattgctgtca	W57490	58033	cctgtgctacgatctcacatgctca	W15997	100637	atagctctcagcttcggtgaactcc	AA155064
15430	cacttccaatactgagaaaagacaa	W57490	58034	ctacgatctcacatgctcatacaat	W15997	100638	catgtgccagtcacaatttactccc	AA155064
15431	gactacacactgtgtatctcctcga	W57490	58035	cgatctcacatgctcatacaatgtg	W15997	100639	tgtgccagtcacaatttactcccaa	AA155064
15432	actacacactgtgtatctcctcgag	W57490	58036	tctcacatgctcatacaatgtgctg	W15997	100640	tgccagtcacaatttactcccaatc	AA155064
15433	tacacactgtgtatctcctcgagag	W57490	58037	cacatgctcatacaatgtgctgcac	W15997	100641	ccagtcacaatttactcccaatcag	AA155064
15434	cactgtgtatctcctcgagagactt	W57490	58038	ctcatacaatgtgctgcacggacta	W15997	100642	agtcacaatttactcccaatcagca	AA155064
15435	ctgtgtatctcctcgagagactttc	W57490	58039	gctgcacggactacgtgcaggtgtg	W15997	100643	tcacaatttactcccaatcagcata	AA155064
15436	tgtgtatctcctcgagagactttcc	W57490	58040	gcacggactacgtgcaggtgtgcac	W15997	100644	acaatttactcccaatcagcataca	AA155064

TABLE 1

SEQ ID NO	sequence	DBAxnID
15437	tgtatctcctcgagagactttccac	W57490
15438	gtatctcctcgagagactttccaca	W57490
15439	attatatgtaactccacaatgtctt	L12705
15440	tgtaactccacaatgtcttctgttt	L12705
15441	atttcactgcgccaacactttctct	L12705
15442	ctgcgccaacactttctctttgtac	L12705
15443	caacactttctctttgtacatattc	L12705
15444	tttctctttgtacatattcgtgcca	L12705
15445	tttgtacatattcgtgccaaccttc	L12705
15446	catattcgtgccaaccttctgaaaa	L12705
15447	ctgtgaataaccatctgctgcttgg	L12705
15448	ggtgaacacatgccttttagcagga	L12705
15449	tgaatgttccctacttaaaactgtg	L12705
15450	cattccaatctgtgaatttttgtgt	L12705
15451	tccacaatgtcttctgtttagtgta	L12705
15452	atgtcttctgtttagtgtatggaaa	L12705
15453	ctgggccagcacagtggccagcgtg	L12705
15454	agtggccagcgtgttctcaggctgc	L12705
15455	cagcgtgttctcaggctgcctgctg	L12705
15456	aggctgcctgctgaggaccgatggt	L12705
15457	cctgctgaggaccgatggtggattt	L12705
15458	ctctttatttcactgcgccaacact	L12705
15459	gcagacttgttgcccactgcttctc	L25125
15460	gcttctccctctgttttgaccaatc	L25125
15461	gaggtgtctttcctcctgtacatct	L25125
15462	tctttcctcctgtacatctagtctg	L25125
15463	tacatctagtctgtgcctggctcca	L25125
15464	tagtctgtgcctggctccattgttt	L25125
15465	ggctccattgtttgttccaatccat	L25125
15466	attgtttgttccaatccatgggact	L25125
15467	tgttccaatccatgggacttcatgc	L25125
15468	tgggacttcatgccacgtaacaact	L25125
15469	ttatgaccaagcaaaaactctgaat	L25125
15470	ttctgcttactagactaatatatgt	L25125
15471	accaatcctcaaccttgaataaatg	L25125
15472	cctcaaccttgaataaatgagagga	L25125
15473	attgctatagctcacctgcctctca	L25125
15474	cctctcatagaaccagtagagacac	L25125
15475	atgtctttattcttcagattggcag	L25125
15476	gtcagcaaatctcagactcgagggt	L25125
15477	aaatctcagactcgagggtcataga	L25125
15478	tcatagacaatcccattgaagatgg	L25125
15479	cagccgtgcaagcagcagtcgaagt	L25126
15480	tggccatggcggcagtcgaggattt	L25126
15481	cttagccagactataccttgtgtag	L25126
15482	actatacctgtgtagcttcaagaa	L25126
15483	atacctgtgtagcttcaagaactc	L25126
15484	gtagcttcaagaactcgcagtacat	L25126
15485	gcttcaagaactcgcagtacattac	L25126
15486	tcaagaactcgcagtacattaccag	L25126
15487	cgcagtacattaccagctgtgattc	L25126
15488	agtacattaccagctgtgattctcc	L25126
15489	ttaccagctgtgattctccactgaa	L25126
15490	gctgtgattctccactgaaattttt	L25126
15491	ccatggcggcagtcgaggatttggt	L25126
15492	taactgagcctgctctgtagtaggt	L25126
15493	ctgagcctgctctgtagtaggtcac	L25126
15494	ctctgtagtaggtcaccctgccaaa	L25126
15495	tcaccctgccaaacaagctaatatg	L25126
15496	ccctgccaaacaagctaatatggaa	L25126
15497	tgccaaacaagctaatatggaaacc	L25126
15498	taacttagccagactataccttgtg	L25126
15499	gaaactattattgtcacctagatcc	U21795
15500	attattgtcacctagatccttctta	U21795
15501	caaggtcctcatgtccagtgcgaat	U21795
15502	ggtcctcatgtccagtgcgaatgaa	U21795
15503	tgatttgatcctgacttctacagcc	U21795
15504	gatcctgacttctacagcccctgaa	U21795

SEQ ID NO:	sequence	DBAxnID
58041	gttcacccgattctgcactcggcac	W15997
58042	ccgattctgcactcggcacactcag	W15997
58043	ctgcactcggcacactcagatcgac	W15997
58044	cactcggcacactcagatcgacact	W15997
58045	tcggcacactcagatcgacactctc	W15997
58046	gcacactcagatcgacactctcttg	W15997
58047	cactctcttgaagtccacgaactat	W15997
58048	taatcctcacctgtgctacgatctc	W15997
58049	cacaagctgtcatcctttctgttca	X57437
58050	ctgtcatcctttctgttcagttact	X57437
58051	ctgatcaagttctacagcgtcccca	X57437
58052	agcaagcccattattttgatcataa	X57437
58053	attttgatcataacctcacagggtc	X57437
58054	atcataacctcacagggtcttcgtg	X57437
58055	acctcacagggtcttcgtgatccac	X57437
58056	cagggtcttcgtgatccacaacaga	X57437
58057	cttcgtgatccacaacagattgtaa	X57437
58058	gatccacaacagattgtaactggga	X57437
58059	gcatgctccagaggttgcaggcgct	X57437
58060	tgctccagaggttgcaggcgcttgt	X57437
58061	tcctttctgttcagttacttgtcgg	X57437
58062	ctgttcagttacttgtcggtccaga	X57437
58063	acaacgcggtccctcagctgcaaca	X57437
58064	cggtccctcagctgcaacagtgtgc	X57437
58065	ctcagctgcaacagtgtgcctatga	X57437
58066	tgcaacagtgtgcctatgagtgccc	X57437
58067	agtgtgcctatgagtgcccagaagt	X57437
58068	cctatgagtgcccagaagtcactcc	X57437
58069	gattgctgctgcttctgagcttgct	W16151
58070	attgctgctgcttctgagcttgctc	W16151
58071	tgagcttgctcatagcgctttcggc	W16151
58072	gagcttgctcatagcgctttcggca	W16151
58073	agcttgctcatagcgctttcggcat	W16151
58074	gcttgctcatagcgctttcggcatc	W16151
58075	cttgctcatagcgctttcggcatcc	W16151
58076	ttgctcatagcgctttcggcatccg	W16151
58077	gctcatagcgctttcggcatccgta	W16151
58078	tagcgctttcggcatccgtatcatc	W16151
58079	agcgctttcggcatccgtatcatct	W16151
58080	gcgctttcggcatccgtatcatctc	W16151
58081	ttgctgctgcttctgagcttgctca	W16151
58082	tgctgctgcttctgagcttgctcat	W16151
58083	gctgctgcttctgagcttgctcata	W16151
58084	ctgctgcttctgagcttgctcatag	W16151
58085	tgcttctgagcttgctcatagcgct	W16151
58086	gcttctgagcttgctcatagcgctt	W16151
58087	cttctgagcttgctcatagcgcttt	W16151
58088	ctgagcttgctcatagcgctttcgg	W16151
58089	tcctttacggagattaccagagtg	Z27410
58090	caggctcagacgccagtggacctac	Z27410
58091	tcgcctagtcctgagcccagcttgc	Z27410
58092	ctccactccatgtcagcggaggtct	Z27410
58093	ttcgggcccagtccacctttctcat	Z27410
58094	cctttctcatctctgtcggtcaatg	Z27410
58095	tcatctctgtcggtcaatggtggag	Z27410
58096	gccagctacgggaaccatttgtctc	Z27410
58097	atgaacgaggcagccgtgtggtagc	Z27410
58098	ctcgcatgggccacgggagctcgtg	Z27410
58099	gccacgggagctcgtggttgtacag	Z27410
58100	tccttcagcctcggggaccagtctg	Z27410
58101	gctcagacgccagtggacctaccct	Z27410
58102	agtctgtttggggagactggatagc	Z27410
58103	ccagtggacctacccttgtgccat	Z27410
58104	gacctacccttgtgccatcatctg	Z27410
58105	ccctttgtgccatcatctggccctt	Z27410
58106	tttgtgccatcatctggcccttcgg	Z27410
58107	gtgccatcatctggcccttcgggga	Z27410
58108	tccagtgaggcgcagcgatttactg	Z27410

SEQ ID NO:	sequence	DBAxnID
100645	aatttactcccaatcagcatacagt	AA155064
100646	cgagaagcgcttcaccttcgtgttg	M97516
100647	cttcttcagctacagcctgtatggc	M97516
100648	tatcctctttcgaaggaggagaagg	M97516
100649	ggacctggacccactgacgtcctgg	M97516
100650	actgacgtcctggacagctctgaac	M97516
100651	gtcctggacagctctgaactcgggt	M97516
100652	gacagctctgaactcgggtagacag	M97516
100653	tctgaactcgggtagacagagagac	M97516
100654	ccaacagtgtggtctctccagagtc	M97516
100655	cagagtcccagggtggacttcaggg	M97516
100656	gagacctttgccttcccatctcagc	M97516
100657	ttgtggatccagttcctgagaaggc	M97516
100658	cagcctgtatggcatctgccgtgag	M97516
100659	tgtggatccagttcctgagaaggct	M97516
100660	catctgccgtgaggcctgccagttg	M97516
100661	ggcctgccagttgccagaaccgctc	M97516
100662	ccagttgccagaaccgctctttaag	M97516
100663	ggtcatctacactgtcttcaatcag	M97516
100664	tgtcttcaatcaggacttcaggcgc	M97516
100665	caggcgctctttcaagcatatcctc	M97516
100666	ctctttcaagcatatcctctttcga	M97516
100667	tcgccctggttcaggtgtccgaccg	AA155168
100668	gccctggttcaggtgtccgaccgtg	AA155168
100669	cagccccactagactatgagaccac	AA155168
100670	tgagaccacccgggagttcaacgtg	AA155168
100671	agtagctgtggactctggcagtccc	AA155168
100672	tgtggactctggcagtcccagcctc	AA155168
100673	cagcctctccagcaacaattccttg	AA155168
100674	gcctctccagcaacaattccttggt	AA155168
100675	ctccagcaacaattccttggtggtc	AA155168
100676	ccagcaacaattccttggtggtcaa	AA155168
100677	agcaacaattccttggtggtcaagg	AA155168
100678	caacaattccttggtggtcaaggtg	AA155168
100679	gtgtccgaccgtgaccaaggcgaga	AA155168
100680	gtagtcacctgtaccgtagtgggag	AA155168
100681	cctttccagcttaagccagccagcg	AA155168
100682	tttccagcttaagccagccagcgac	AA155168
100683	gcttaagccagccagcgacacagaa	AA155168
100684	cagccagcgacacagaaggcgatca	AA155168
100685	gccagcgacacagaaggcgatcaaa	AA155168
100686	atcagccccactagactatgagacc	AA155168
100687	ccgtgctctgtatgccgcgttctcc	AA023591
100688	gtgctctgtatgccgcgttctcccg	AA023591
100689	aggccaccaagatgcctcagtccaa	AA023591
100690	gccaccaagatgcctcagtccaagt	AA023591
100691	caccaagatgcctcagtccaagtcc	AA023591
100692	ccaagatgcctcagtccaagtcccg	AA023591
100693	aagatgcctcagtccaagtcccgga	AA023591
100694	gatgcctcagtccaagtcccggaag	AA023591
100695	tgcctcagtccaagtcccggaagat	AA023591
100696	aaagtcctcattgacaattcagttt	AA023591
100697	tcctcattgacaattcagtttgttg	AA023591
100698	ctcattgacaattcagtttgttgaa	AA023591
100699	gctctgtatgccgcgttctcccggc	AA023591
100700	cgcagcctgcctgatagtctgagcc	AA023591
100701	cagcctgcctgatagtctgagccgg	AA023591
100702	ctgatagtctgagccggagagccgc	AA023591
100703	gatagtctgagccggagagccgccg	AA023591
100704	ctgagcaggccaccaagatgcctca	AA023591
100705	gagcaggccaccaagatgcctcagt	AA023591
100706	gcaggccaccaagatgcctcagtcc	AA023591
100707	aatttggaagccttcacagcggata	AA155191
100708	tttggaagccttcacagcggataaa	AA155191
100709	tattaccagtgataaaccagctgct	AA155191
100710	cagtgataaaccagctgctgcagtc	AA155191
100711	agtgataaaccagctgctgcagtcg	AA155191
100712	tgataaaccagctgctgcagtcgga	AA155191

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID
15505	ccttccagaggttcagtgctttgtg	U21795	58109	cgatttactgacatcctggcacatc	Z27410	100713	tagttttaccgatgctgaaagaaga	AA155191
15506	tcagtgctttgtgttcaacatagag	U21795	58110	attaaactagggccgtgagagagtg	W17532	100714	ttttaccgatgctgaaagaagaaag	AA155191
15507	cagttctgagcctcaggcaaccaac	U21795	58111	atcactacgataggattctgccaat	W17532	100715	tttaccgatgctgaaagaagaaagt	AA155191
15508	ttctgagcctcaggcaaccaacctc	U21795	58112	ctcggatctgcatgaccctagtaaa	W17532	100716	gagattaaccaacaaagccaattgg	AA155191
15509	tgagcctcaggcaaccaacctcacg	U21795	58113	cggatctgcatgaccctagtaaaca	W17532	100717	taaccaacaaagccaattggtagag	AA155191
15510	caacctcacgctgcactataggtac	U21795	58114	tctgcatgaccctagtaaacacagc	W17532	100718	gacacaaatgctggatcaggaagag	AA155191
15511	attgtcacctagatccttcttagtc	U21795	58115	tgcatgaccctagtaaacacagcca	W17532	100719	ttggaagccttcacagcggataaag	AA155191
15512	cctcacgctgcactataggtacaag	U21795	58116	catgaccctagtaaacacagccacc	W17532	100720	ggaagccttcacagcggataaagat	AA155191
15513	gtcacctagatccttcttagtcctt	U21795	58117	tgaccctagtaaacacagccaccag	W17532	100721	gaagccttcacagcggataaagata	AA155191
15514	tagatccttcttagtccttcagctg	U21795	58118	accctagtaaacacagccaccagag	W17532	100722	gccttcacagcggataaagatactg	AA155191
15515	atccttcttagtccttcagctgctc	U21795	58119	cctagtaaacacagccaccagagag	W17532	100723	taaagatactgctattaccagtgat	AA155191
15516	cttcttagtccttcagctgctcctg	U21795	58120	tagtaaacacagccaccagagagaa	W17532	100724	agatactgctattaccagtgataaa	AA155191
15517	agtccttcagctgctcctgctgagg	U21795	58121	acagccaccagagagaatgtcagat	W17532	100725	gatactgctattaccagtgataaac	AA155191
15518	ccttcagctgctcctgctgagggca	U21795	58122	ggattctgccaatatcatattctga	W17532	100726	actgctattaccagtgataaaccag	AA155191
15519	ctccaaggtcctcatgtccagtgcg	U21795	58123	attctgccaatatcatattctgaaa	W17532	100727	tccaccaactaaggacaactcggct	AA155300
15520	tccttcctggaataccggagatcca	U14752	58124	tctgccaatatcatattctgaaaaa	W17532	100728	aactaaggacaactcggctgtacat	AA155300
15521	cttcctggaataccggagatccagg	U14752	58125	tgccaatatcatattctgaaaaaga	W17532	100729	tctggtgctttgggcatgatctgac	AA155300
15522	gccaggcaagcctgagccagaaagg	U14752	58126	agatgtctctcggatctgcatgacc	W17532	100730	atgatctgactggccccaacatctc	AA155300
15523	ggcaagcctgagccagaaagggcgc	U14752	58127	atgtctctcggatctgcatgaccct	W17532	100731	atctgactggccccaacatctctcg	AA155300
15524	caagcctgagccagaaagggcgcac	U14752	58128	gtctctcggatctgcatgaccctag	W17532	100732	tgactggccccaacatctctcgacg	AA155300
15525	ccacatcatctcagaaaccccttcag	U14752	58129	ctctcggatctgcatgaccctagta	W17532	100733	acatctctcgacgacatcacctatg	AA155300
15526	atcatctcagaaaccccttcagccct	U14752	58130	acatacttcagtgcttatgagatcg	W16282	100734	tctctcgacgacatcacctatggtg	AA155300
15527	aaaccagcaagtgtatactgtgatt	U14752	58131	atacttcagtgcttatgagatcgga	W16282	100735	ctcgacgacatcacctatggtgtgc	AA155300
15528	agaagcaacactttgcaataaactc	U14752	58132	aatgtctttacgtgctgcagagcct	W16282	100736	gacgacatcacctatggtgtgcatt	AA155300
15529	aagcaacactttgcaataaactcat	U14752	58133	tgtctttacgtgctgcagagccttg	W16282	100737	atcacctatggtgtgcattacccga	AA155300
15530	tccccttgatcatgtgacctagta	U14752	58134	tgctgcagagccttgactaataggc	W16282	100738	ctatggtgtgcattacccgaatgag	AA155300
15531	ccttgatcatgtgacctagtaatgt	U14752	58135	ctgcagagccttgactaataggcca	W16282	100739	taaggacaactcggctgtacatgaa	AA155300
15532	taccggagatccaggggcctccagc	U14752	58136	ccttgactaataggccaccaacgct	W16282	100740	ggacaactcggctgtacatgaaggc	AA155300
15533	agatccaggggcctccagctgctcc	U14752	58137	ttgactaataggccaccaacgctga	W16282	100741	aattccctgatggcctggtagatcg	AA155300
15534	tctgtgtcctgttatttgggtccca	U14752	58138	gactaataggccaccaacgctgaag	W16282	100742	tagatcgcatcgatgagggtgagat	AA155300
15535	tgtgtcctgttatttgggtcccaga	U14752	58139	ctaataggccaccaacgctgaagtg	W16282	100743	atcgcatcgatgagggtgagatgtc	AA155300
15536	tcctgttatttgggtcccagatgga	U14752	58140	aataggccaccaacgctgaagtgct	W16282	100744	gagttcaaggcacgtggcgctacct	AA155300
15537	ctgttatttgggtcccagatggagc	U14752	58141	taggccaccaacgctgaagtgctac	W16282	100745	ttcaaggcacgtggcgctacctgga	AA155300
15538	tatttgggtcccagatggagcccac	U14752	58142	atttcagtgaggcgttttcattgta	W16282	100746	agatctggtgctttgggcatgatct	AA155300
15539	tgcattcctcaggccaggcaagcct	U14752	58143	ggccaccaacgctgaagtgctacgc	W16282	100747	ctccaagtcaacaatctaagcacgg	AA155318
15540	gattacgacctttcaaagatgaggg	U02982	58144	ataatcggactggaacggcagatct	W16282	100748	caagtcaacaatctaagcacgggag	AA155318
15541	gactttatcaaccaacaagctgacg	U02982	58145	tcgattactgtcaatgtctttacgt	W16282	100749	tcatcacctattgactgttcagaaa	AA155318
15542	tagagctctcttgccataaatacct	U02982	58146	gattactgtcaatgtctttacgtgc	W16282	100750	tcacctattgactgttcagaaaagt	AA155318
15543	tctcttgccataaataccttatgaa	U02982	58147	ttactgtcaatgtctttacgtgctg	W16282	100751	catgctgttatcattccttggttat	AA155318
15544	gctctgagaggccctgtctcggcat	U02982	58148	actgtcaatgtctttacgtgctgca	W16282	100752	gctgttatcattccttggttataaa	AA155318
15545	cctgtctcggcatgctagacacctg	U02982	58149	tgtcaatgtctttacgtgctgcaga	W16282	100753	gagttgctaactgctgtgtttcatc	AA155318
15546	tcggcatgctagacacctgagcacc	U02982	58150	tcaatgtctttacgtgctgcagagc	W16282	100754	ttgctaactgctgtgtttcatctgt	AA155318
15547	tgctagacacctgagcacctcactg	U02982	58151	accaacgcactgctcatattctcca	W16250	100755	ctaactgctgtgtttcatctgttca	AA155318
15548	ctcactggatgtttgtcataggatg	U02982	58152	gcactgctcatattctccagctctg	W16250	100756	actgctgtgtttcatctgttcaata	AA155318
15549	taggatgtcgtttccactagtcgat	U02982	58153	gtctgcctccatcctgatcagacag	W16250	100757	gtgtttcatctgttcaatagggaag	AA155318
15550	tccactagtcgatctctgttgggca	U02982	58154	atcctgatcagacagagcccatcta	W16250	100758	tttcatctgttcaatagggaagcca	AA155318
15551	agtcgatctctgttgggcacggaaa	U02982	58155	cctgatcagacagagcccatctagc	W16250	100759	gtcaacaatctaagcacgggagatg	AA155318
15552	atcaaccaacaagctgacgcttatg	U02982	58156	ctgatcagacagagcccatctagca	W16250	100760	aatctaagcacgggagatgaagatg	AA155318
15553	aagggcatcctcgacaaggaagaag	U02982	58157	gatcagacagagcccatctagcacc	W16250	100761	gggcagatcccattgttggtgtcat	AA155318
15554	gaagaagccaacgccatcaaacgca	U02982	58158	atcagacagagcccatctagcacct	W16250	100762	cagatcccattgttggtgtcatcac	AA155318
15555	gccaacgccatcaaacgcatctaca	U02982	58159	cagacagagcccatctagcaccttc	W16250	100763	atcccattgttggtgtcatcaccta	AA155318
15556	gccatcaaacgcatctacagcagcc	U02982	58160	agacagagcccatctagcaccttct	W16250	100764	ttgttggtgtcatcacctattgact	AA155318
15557	atctacagcagcctgtgaaaatggc	U02982	58161	acagagcccatctagcaccttctga	W16250	100765	ttggtgtcatcacctattgactgtt	AA155318
15558	aaatggcgggcagcttgagccttcc	U02982	58162	cagagcccatctagcaccttctgag	W16250	100766	gtgtcatcacctattgactgttcag	AA155318
15559	ttaccagcccagaagtattaggatg	U02982	58163	actgctcatattctccagctctgac	W16250	100767	tcagctgtagctctgactatattgt	AA155148
15560	gcgttgtctcagtttagagagggca	AA071936	58164	gagcccatctagcaccttctgagca	W16250	100768	gctgtagctctgactatattgtgca	AA155148
15561	cgttgtctcagtttagagagggcaa	AA071936	58165	gctcatattctccagctctgactcg	W16250	100769	tcacttaattagacaccagagaagc	AA155148
15562	caaggtcaaaaccatctaccgcaat	AA071936	58166	ctcatattctccagctctgactcgc	W16250	100770	cttaattagacaccagagaagccat	AA155148
15563	aaggtcaaaaccatctaccgcaatg	AA071936	58167	atattctccagctctgactcgctcc	W16250	100771	gaaaccttccggtgcacagaatgt	AA155148
15564	aggtcaaaaccatctaccgcaatga	AA071936	58168	gtaccaggggtctaatcaggctgtg	W16250	100772	acctttccggtgcacagaatgtggc	AA155148
15565	gtcaaaaccatctaccgcaatgaca	AA071936	58169	gtctaatcaggctgtgtctgcctcc	W16250	100773	caagggcttcagcgttagttctgac	AA155148
15566	tcaaaaccatctaccgcaatgacaa	AA071936	58170	tctaatcaggctgtgtctgcctcca	W16250	100774	cttcagcgttagttctgactgtatt	AA155148
15567	aaaccatctaccgcaatgacaagag	AA071936	58171	taatcaggctgtgtctgcctccatc	W16250	100775	ctgtattatacatcagactgtccat	AA155148
15568	aaccatctaccgcaatgacaagagg	AA071936	58172	taatgtagaccagggagctgcagtt	W18429	100776	tatacatcagactgtccatacttgg	AA155148
15569	accatctaccgcaatgacaagagga	AA071936	58173	tgtagaccagggagctgcagttcta	W18429	100777	acatcagactgtccatacttggaag	AA155148
15570	ccatctaccgcaatgacaagaggat	AA071936	58174	gcatctcttcggagcgatcctatac	W18429	100778	tcagactgtccatacttggaagaaa	AA155148
15571	catctaccgcaatgacaagaggatc	AA071936	58175	tctcttcggagcgatcctatactga	W18429	100779	ctgactatattgtgcaccagaggat	AA155148
15572	caagatggcctcagccacagactct	AA071936	58176	cttcggagcgatcctatactgactt	W18429	100780	actatattgtgcaccagaggatcca	AA155148

TABLE 1

SEQ ID NO	sequence	DBAxnID
15573	gactcttttactccagcctttgtca	AA071936
15574	actcttttactccagcctttgtcag	AA071936
15575	ctcttttactccagcctttgtcagc	AA071936
15576	tcttttactccagcctttgtcagca	AA071936
15577	cttttactccagcctttgtcagcac	AA071936
15578	ttcaaggtcaaaaccatctaccgca	AA071936
15579	tcaaggtcaaaaccatctaccgcaa	AA071936
15580	cctaggcagctgcatgtcgtcctgt	W57539
15581	cagctgcatgtcgtcctgtacaaat	W57539
15582	gttcacttgtgctgtctgcataagc	W57539
15583	ttgtgctgtctgcataagctgcgtc	W57539
15584	tgctgtctgcataagctgcgtctgt	W57539
15585	tgtctgcataagctgcgtctgtgag	W57539
15586	ctgcataagctgcgtctgtgagtgc	W57539
15587	aagctgcgtctgtgagtgcacggtg	W57539
15588	tgctccggtaggtgtgtatgatgcg	W57539
15589	tgatgcgttgacacgctacgctgtc	W57539
15590	acgctacgctgtctccctcatgtgc	W57539
15591	ctacgctgtctccctcatgtgcaca	W57539
15592	ctgcatgtcgtcctgtacaaatgtg	W57539
15593	catgtcgtcctgtacaaatgtgctc	W57539
15594	gtcgtcctgtacaaatgtgctcgtt	W57539
15595	tacaaatgtgctcgtttctgagtgc	W57539
15596	aaatgtgctcgtttctgagtgcttt	W57539
15597	tgagtgctttgtgcggccgttcact	W57539
15598	gtgctttgtgcggccgttcacttgt	W57539
15599	gccgttcacttgtgctgtctgcata	W57539
15600	gcagttgcgccgtgattgcgatgcg	U09507
15601	gttgcgccgtgattgcgatgcgctc	U09507
15602	gacagatttctatcactccaagcgc	U09507
15603	agatttctatcactccaagcgcaga	U09507
15604	tttctatcactccaagcgcagattg	U09507
15605	tcactccaagcgcagattggtcttc	U09507
15606	ctccaagcgcagattggtcttctgc	U09507
15607	cttcggccttagccctcactctgtg	U09507
15608	tagccctcactctgtgtgtcttaat	U09507
15609	ccctcactctgtgtgtcttaattat	U09507
15610	tttaaacgtctcctgatatacgctg	U09507
15611	cgtctcctgatatacgctgcctgcc	U09507
15612	tgattgcgatgcgctcatggcgggc	U09507
15613	gaactttgacttcgtcacggagacg	U09507
15614	cttcgtcacggagacgccgctggag	U09507
15615	gggcaacttcgtctgggagcgcgtt	U09507
15616	gctgcccaaggtctacctgagccct	U09507
15617	gaggcccagtacttcctctgccctg	U09507
15618	agctccggaggaccacgtggccttg	U09507
15619	gtcgctgtcttgcactctggtgtct	U09507
15620	tcccaaccaaggcaagacgctttat	W58783
15621	caaccaaggcaagacgctttatttg	W58783
15622	tcttccaaccagatcatatagacag	W58783
15623	ttccaaccagatcatatagacagat	W58783
15624	ccaaccagatcatatagacagatac	W58783
15625	gatacagttgctaatcagggcccct	W58783
15626	gttgctaatcagggcccctggaagc	W58783
15627	ttgctaatcagggcccctggaagcg	W58783
15628	tgctaatcagggcccctggaagcgg	W58783
15629	taatcagggcccctggaagcgggca	W58783
15630	catccggcagcgagggaagcccggc	W58783
15631	tcagctacgcggcgccctggtgggt	W58783
15632	gacgctttatttgtcttccaaccag	W58783
15633	gctttatttgtcttccaaccagatc	W58783
15634	ctttatttgtcttccaaccagatca	W58783
15635	tttatttgtcttccaaccagatcat	W58783
15636	tatttgtcttccaaccagatcatat	W58783
15637	atttgtcttccaaccagatcatata	W58783
15638	tttgtcttccaaccagatcatatag	W58783
15639	gtcttccaaccagatcatatagaca	W58783
15640	ctatgacctcaccttcagcactgag	AA155371

SEQ ID NO:	sequence	DBAxnID
58177	agcgatcctatactgacttcctctt	W18429
58178	gatcctatactgacttcctctttgc	W18429
58179	cctatactgacttcctctttgcaag	W18429
58180	atactgacttcctctttgcaagtac	W18429
58181	ctgacttcctctttgcaagtacgat	W18429
58182	acttcctctttgcaagtacgatact	W18429
58183	tcctctttgcaagtacgatactata	W18429
58184	agttctattactgtgtcctcgtgca	W18429
58185	tctattactgtgtcctcgtgcatac	W18429
58186	attactgtgtcctcgtgcatacctt	W18429
58187	gcgtctactcacgtgtaggcagctt	W18429
58188	actcacgtgtaggcagcttcatact	W18429
58189	cctagaactaggcgcacttccaatg	W18429
58190	tccaatgcatctcttcggagcgatc	W18429
58191	aatgcatctcttcggagcgatccta	W18429
58192	tcaaggctgccctgctaaaacatgg	X13752
58193	atagtgccaaatttgcctcctgttt	X13752
58194	tgtctggagagtttgccatgttgtg	X13752
58195	gggcctttgatctcaggactgctgt	X13752
58196	ttgatctcaggactgctgtactgga	X13752
58197	ctgctgtactggagaccatgacggc	X13752
58198	agaccatgacggccttccgcagagc	X13752
58199	ccttccgcagagccggtgccgacat	X13752
58200	ccgacatcatcatcacctactttgc	X13752
58201	tcatcatcacctactttgcaccgca	X13752
58202	tcacctactttgcaccgcagctgtt	X13752
58203	actttgcaccgcagctgttgaagtg	X13752
58204	tctacggtcctttccgggatgcagc	X13752
58205	caagcccagcttttggagaccgacg	X13752
58206	tggcccgagacattcaagaaggagc	X13752
58207	ctgacatgctcatggtgaagccggg	X13752
58208	tgctcatggtgaagccgggattgcc	X13752
58209	cctacctggacatggtgcgagaggt	X13752
58210	tgaaggacaagcaccccgagctccc	X13752
58211	cagtataccaggtgtctggagagtt	X13752
58212	atgtctcgccagactgagatggagg	W17839
58213	tgtctcgccagactgagatggagga	W17839
58214	aattcctgagaacagggatgcgatt	W17839
58215	ttcctgagaacagggatgcgattat	W17839
58216	atgggacgctctaatgtcgagaatg	W17839
58217	tgggacgctctaatgtcgagaatga	W17839
58218	ggacgctctaatgtcgagaatgagg	W17839
58219	acgctctaatgtcgagaatgaggaa	W17839
58220	cattaactctactgtcctatcgaac	W17839
58221	attaactctactgtcctatcgaaca	W17839
58222	ttaactctactgtcctatcgaacat	W17839
58223	taactctactgtcctatcgaacatg	W17839
58224	gtctcgccagactgagatggaggag	W17839
58225	tctcgccagactgagatggaggagt	W17839
58226	ctcgccagactgagatggaggagtt	W17839
58227	tcgccagactgagatggaggagttc	W17839
58228	ctgtaattcctgagaacagggatgc	W17839
58229	tgtaattcctgagaacagggatgcg	W17839
58230	gtaattcctgagaacagggatgcga	W17839
58231	taattcctgagaacagggatgcgat	W17839
58232	tcttccggccggtgcatgccagctt	W17952
58233	ttccggccggtgcatgccagcttca	W17952
58234	gtcctgccattctatcgaccacaga	W17952
58235	cctgccattctatcgaccacagaga	W17952
58236	tgccattctatcgaccacagagatc	W17952
58237	ccattctatcgaccacagagatcct	W17952
58238	tctatcgaccacagagatcctctaa	W17952
58239	tatcgaccacagagatcctctaagt	W17952
58240	tcgaccacagagatcctctaagtcg	W17952
58241	acagagatcctctaagtcggtggtg	W17952
58242	gtggctcgattcgatgctcgatgta	W17952
58243	ggctcgattcgatgctcgatgtatt	W17952
58244	ccggtgcatgccagcttcactcgta	W17952

SEQ ID NO	sequence	DBAxnID
100781	gagagaaaccctttcagtgtggcga	AA155148
100782	ttcagtgtggcgagtgtggcaaagc	AA155148
100783	gcaaagcttccacgtcaatgctcac	AA155148
100784	cttccacgtcaatgctcacttaatt	AA155148
100785	ccacgtcaatgctcacttaattaga	AA155148
100786	cgtcaatgctcacttaattagacac	AA155148
100787	catacgagccagcagcattactagg	AA155464
100788	acgagccagcagcattactagggcc	AA155464
100789	gtggcatcacttgtagcattgggca	AA155464
100790	tcacttgtagcattgggcatgcgtc	AA155464
100791	ggctgaatttcgctgatgggattca	AA155464
100792	atttcgctgatgggattcatgagta	AA155464
100793	aatatgcagagtccattgagcatgt	AA155464
100794	agcatgtgcgtgcacgcatacgaag	AA155464
100795	tgcgtgcacgcatacgaagctttgc	AA155464
100796	gtgcacgcatacgaagctttgcatc	AA155464
100797	cacgcatacgaagctttgcatctga	AA155464
100798	tacgaagctttgcatctgatgccaa	AA155464
100799	cattactagggccatggttgaaaca	AA155464
100800	catctgatgccaatctccatcgtcg	AA155464
100801	tgaaacactccgggaacacatgtgc	AA155464
100802	aacactccgggaacacatgtgccgc	AA155464
100803	ctctgcacccatcgagggccgtaac	AA155464
100804	tgcacccatcgagggccgtaacacg	AA155464
100805	catcgagggccgtaacacgtggcat	AA155464
100806	taacacgtggcatcacttgtagcat	AA155464
100807	cacgtggcatcacttgtagcattgg	AA155464
100808	gatcccattggctgtactcttcggg	M28383
100809	atcactgtctggtatccaattgtcc	M28383
100810	catccagctgggctgcattgcactt	M28383
100811	ctgcattgcacttctctgggtggtc	M28383
100812	tgcacttctctgggtggtcaagtca	M28383
100813	tttcctgctcttgctcacggtgcct	M28383
100814	ttggcgattcacagaccctaggaac	M28383
100815	taggaacccagcaccagggccaggc	M28383
100816	accagggccaggcattcctcagacc	M28383
100817	tcagacccagggatgtgcctggagt	M28383
100818	atgtgcctggagtcactgcccatgc	M28383
100819	cagtggccccttgactttcacagcc	M28383
100820	tatccaattgtcccaacgtctgctg	M28383
100821	aagtcattacaacacactccgtgtg	M28383
100822	attgtcccaacgtctgctgctcatt	M28383
100823	tctgctgctcattttcatgccagca	M28383
100824	gctcattttcatgccagcaaagcac	M28383
100825	tttcatgccagcaaagcaccatcct	M28383
100826	tgagcagccctacgtgaccaaggtg	M28383
100827	gatcgacctgttcacctgcatccag	M28383
100828	cctgttcacctgcatccagctgggc	M28383
100829	atgcttctgcaagtgcttccggaga	AA140026
100830	cttctgcaagtgcttccggagaggt	AA140026
100831	tccctggagcacgagatcctcctgc	AA140026
100832	ctgcacccacgatacttcggtccaa	AA140026
100833	cgatacttcggtccaaacttgctca	AA140026
100834	tacttcggtccaaacttgctcaaca	AA140026
100835	acctgcactgggaaatatggctttg	AA140026
100836	gtaattgctgtcaccaccatcgaca	AA140026
100837	attgctgtcaccaccatcgacaata	AA140026
100838	gtcaccaccatcgacaatattggtg	AA140026
100839	atcgacaatattggtgctggtgtga	AA140026
100840	aatattggtgctggtgtgatccagc	AA140026
100841	ctgcaagtgcttccggagaggtctc	AA140026
100842	cttccggagaggtctctgcgtggga	AA140026
100843	gagaggtctctgcgtgggaagttct	AA140026
100844	ttctgggcgctgcgggccaagcttc	AA140026
100845	ctgcgggccaagcttctgcagaaga	AA140026
100846	ttttatcacatttccctggagcacg	AA140026
100847	tatcacatttccctggagcacgaga	AA140026
100848	atttccctggagcacgagatcctcc	AA140026

TABLE 1

SEQ ID NO	sequence	DBAxnID
15641	cctcaccttcagcactgaggttcaa	AA155371
15642	agccatccgcaaacagctggcagcc	AA155371
15643	ccgcaaacagctggcagccttcttg	AA155371
15644	acagctggcagccttcttggagggc	AA155371
15645	ggcagccttcttggagggcttctat	AA155371
15646	cttcttggagggcttctatgaaatc	AA155371
15647	cattccaaagcgcctcatatccatc	AA155371
15648	aaagcgcctcatatccatctttact	AA155371
15649	cctcatatccatctttactgagcag	AA155371
15650	atccatctttactgagcaggaatta	AA155371
15651	agagctgctcatatcagggctgcct	AA155371
15652	cttcagcactgaggttcaagaattt	AA155371
15653	gctcatatcagggctgcctaccatc	AA155371
15654	tgacctcaaacccaatggagccaac	AA155371
15655	caaacccaatggagccaacatcttg	AA155371
15656	caatggagccaacatcttggtaaca	AA155371
15657	agccaacatcttggtaacagaggag	AA155371
15658	atatgtacacctggtttgccagatg	AA155371
15659	acacctggtttgccagatgagaatg	AA155371
15660	gacaggagccatccgcaaacagctg	AA155371
15661	tccttcagtgctatgtctcttccgg	U10325
15662	agtgctatgtctcttccgggtgctc	U10325
15663	cagacacaagcacaagcacctagcc	U10325
15664	caagcacaagcacctagccagcctg	U10325
15665	caagcacctagccagcctgaggtct	U10325
15666	cctagccagcctgaggtctttcaag	U10325
15667	cagcctgaggtctttcaagaaatgc	U10325
15668	gaaatgctgtccatgctgggagacc	U10325
15669	ctgtccatgctgggagaccaaagca	U10325
15670	ggagaccaaagcaacacctacaaca	U10325
15671	ttttaggatcctctgaaattttgag	U10325
15672	gatcctctgaaattttgaggatagg	U10325
15673	cccactgcctcatctggtactgctg	U10325
15674	aactttcctcctgagactggacaga	U10325
15675	cctcctgagactggacagaccacag	U10325
15676	cagccccatcatcggtctagttcca	U10325
15677	catcatcggtctagttccagtgagc	U10325
15678	cggtctagttccagtgagcagcatg	U10325
15679	agttccagtgagcagcatgttcagc	U10325
15680	gttcagcagacacaagcacaagcac	U10325
15681	tctcgccaagctcctgaccaggatg	AA033153
15682	ggttgaaattcctccgaccagagca	AA033153
15683	gtacaccatagctaatcaatttcct	AA033153
15684	catagctaatcaatttcctctcaac	AA033153
15685	agctaatcaatttcctctcaacaag	AA033153
15686	taatcaatttcctctcaacaagctc	AA033153
15687	caagctcaccgagctcctcagactt	AA033153
15688	caccgagctcctcagacttgacatg	AA033153
15689	gctcctcagacttgacatggctgcg	AA033153
15690	cctcagacttgacatggctgcggct	AA033153
15691	tggcttcaccgaagcactgacttttt	AA033153
15692	cttcaccgaagcactgacttttgct	AA033153
15693	tcctccgaccagagcagatgtcatc	AA033153
15694	cgaagcactgacttttgctctgtgc	AA033153
15695	tccgaccagagcagatgtcatccat	AA033153
15696	ggacgcagctattgcttatggctat	AA033153
15697	cgcagctattgcttatggctataac	AA033153
15698	cattcagatgactctgccgaaaacg	AA033153
15699	gatgactctgccgaaaacgtacacc	AA033153
15700	gactctgccgaaaacgtacaccata	AA033153
15701	aacgtacaccatagctaatcaattt	AA033153
15702	aacttacaaacccagcggctgccag	D43769
15703	caaacccagcggctgccagttcaaa	D43769
15704	gggtaacagcctccaggacaatgtt	D43769
15705	caatgtttcctcactcgttaagcag	D43769
15706	ttcctcactcgttaagcagctcatc	D43769
15707	actcgttaagcagctcatctcagtt	D43769
15708	taagcagctcatctcagttcccaaa	D43769
58245	gctcgattcgatgctcgatgtattg	W17952
58246	ggtgcatgccagcttcactcgtatc	W17952
58247	tgcatgccagcttcactcgtatcta	W17952
58248	catgccagcttcactcgtatctaca	W17952
58249	ccagcttcactcgtatctacaccag	W17952
58250	agcttcactcgtatctacaccagca	W17952
58251	cttcactcgtatctacaccagcatt	W17952
58252	gcgggtcctgccattctatcgacca	W17952
58253	ctaccctgatgcagtctgcatttct	X70922
58254	ccctgatgcagtctgcatttctcag	X70922
58255	ggtgcttctgttaaatctgggctcg	X70922
58256	aaatctgggctcggtcttcctgcag	X70922
58257	ggtcttcctgcagaccttgctgtaa	X70922
58258	cttgttgtttatcctcatttgcaac	X70922
58259	gttgtttatcctcatttgcaactat	X70922
58260	cttcctagaatgccattttgtgtgg	X70922
58261	atgccattttgtgtggcttgctaat	X70922
58262	ccattttgtgtggcttgctaatctt	X70922
58263	ttttgtgtggcttgctaatcttggc	X70922
58264	tgctaatcttggccctggaggctcg	X70922
58265	ctgcatttctcagcaggtagaactt	X70922
58266	ttctcagcaggtagaacttattgtg	X70922
58267	caaactctgctttccttctgccct	X70922
58268	tttctgccctgctaatcttgaaaat	X70922
58269	ccctgctaatcttgaaaatatggag	X70922
58270	cctgggtactactgtcaacgtgaat	X70922
58271	gggtactactgtcaacgtgaatact	X70922
58272	accatttttccactggaggcagcacc	X70922
58273	gacaaccagactaacctgctgccag	W17514
58274	caaccagactaacctgctgccagat	W17514
58275	catctctgttgatctcgtcctcacg	W17514
58276	tctctgttgatctcgtcctcacgaa	W17514
58277	tctgttgatctcgtcctcacgaagc	W17514
58278	tgttgatctcgtcctcacgaagcat	W17514
58279	ttgatctcgtcctcacgaagcatga	W17514
58280	gatctcgtcctcacgaagcatgacc	W17514
58281	gtcctcacgaagcatgacctgcttg	W17514
58282	ctcgcttgcaaatcggagatggatg	W17514
58283	tcgcttgcaaatcggagatggatga	W17514
58284	cgcttgcaaatcggagatggatgac	W17514
58285	accagactaacctgctgccagatgc	W17514
58286	cagactaacctgctgccagatgctc	W17514
58287	aacctgctgccagatgctctgaacc	W17514
58288	gccagatgctctgaacctcttcagg	W17514
58289	cttcaggagcatctggacaacagat	W17514
58290	atctggacaacagatggctgggacc	W17514
58291	tggctgggaccatctctgttgatct	W17514
58292	accatctctgttgatctcgtcctca	W17514
58293	agcagcgcctcaatctacagtggca	W17516
58294	cagcgcctcaatctacagtggcaag	W17516
58295	ccctgcgctgcaatcactaatgtgg	W17516
58296	cctgcgctgcaatcactaatgtggc	W17516
58297	tgcgctgcaatcactaatgtggcat	W17516
58298	gcgctgcaatcactaatgtggcatc	W17516
58299	gctgcaatcactaatgtggcatcac	W17516
58300	ctgcaatcactaatgtggcatcaca	W17516
58301	caatcactaatgtggcatcacatat	W17516
58302	atcactaatgtggcatcacatatcc	W17516
58303	atgtggcatcacatatcctctcact	W17516
58304	tggcatcacatatcctctcactctc	W17516
58305	agcgcctcaatctacagtggcaagc	W17516
58306	cgcctcaatctacagtggcaagcca	W17516
58307	gcctcaatctacagtggcaagccaa	W17516
58308	ctcaatctacagtggcaagccaaat	W17516
58309	tcaatctacagtggcaagccaaatg	W17516
58310	agaagttgtccttggcagtgaagaa	W17516
58311	ctcccctgcgctgcaatcactaatg	W17516
58312	tcccctgcgctgcaatcactaatgt	W17516
100849	cttgaacacacagaacggagactat	AA161949
100850	agactatgcctagtgtaggttttgc	AA161949
100851	ggtcacctgcattccatagcattgt	AA161949
100852	cacctgcattccatagcattgtgct	AA161949
100853	tccatagcattgtgcttgtacttgt	AA161949
100854	gcattgtgcttgtacttgtgctcac	AA161949
100855	ttgtgcttgtacttgtgctcacacg	AA161949
100856	ttgtacttgtgctcacacggttacc	AA161949
100857	tacttgtgctcacacggttacctag	AA161949
100858	ttgtgctcacacggttacctagggt	AA161949
100859	tgctcacacggttacctagggtagg	AA161949
100860	tacctagggtaggctgggagccatt	AA161949
100861	ctatgcctagtgtaggttttgcagt	AA161949
100862	ttaatggcctgaatgctagatatca	AA161949
100863	ctagatatcagatcacctgtttcgc	AA161949
100864	cctgtttcgctgtgggaacaggaga	AA161949
100865	catccgctgcatggtcacagtagag	AA161949
100866	ccgctgcatggtcacagtagagccc	AA161949
100867	agagcccccgtgactcgcctgtctt	AA161949
100868	ttgggtcacctgcattccatagcat	AA161949
100869	gaactgctcctttcactaccatggt	AA162441
100870	ccatggtttccacttctcagaactg	AA162441
100871	tcaaatttctgcgtcagtatgggtt	AA162441
100872	aatttctgcgtcagtatgggtttga	AA162441
100873	ttctgcgtcagtatgggtttgatgg	AA162441
100874	atggactggacctggactgggaata	AA162441
100875	gactggacctggactgggaatacca	AA162441
100876	aataccaggctcacgtgggagcctc	AA162441
100877	caggacaagcatctcttcactgtcc	AA162441
100878	aacaggcccagactgatggttactg	AA162441
100879	ctgatggttactgctgctgtagctg	AA162441
100880	atggttactgctgctgtagctggtg	AA162441
100881	tggtttccacttctcagaactgcca	AA162441
100882	actgctgctgtagctggtgggattt	AA162441
100883	tttccacttctcagaactgccagac	AA162441
100884	cttctcagaactgccagaccttcat	AA162441
100885	ctcagaactgccagaccttcattac	AA162441
100886	agaactgccagaccttcattacctc	AA162441
100887	agaccttcattacctcagtcatcaa	AA162441
100888	ttacctcagtcatcaaatttctgcg	AA162441
100889	cagtcatcaaatttctgcgtcagta	AA162441
100890	cggagctctctccatgtttgagctc	AA162443
100891	gagctctctccatgtttgagctcga	AA162443
100892	tgagctcgagttcttctatgaggag	AA162443
100893	gagctcgagttcttctatgaggagc	AA162443
100894	agctcgagttcttctatgaggagca	AA162443
100895	ctcgagttcttctatgaggagcagg	AA162443
100896	tcgagttcttctatgaggagcaggc	AA162443
100897	cgagttcttctatgaggagcaggcc	AA162443
100898	agttcttctatgaggagcaggccca	AA162443
100899	gttcttctatgaggagcaggcccag	AA162443
100900	ttcttctatgaggagcaggcccagc	AA162443
100901	tctatgaggagcaggcccagcgcat	AA162443
100902	agctctctccatgtttgagctcgag	AA162443
100903	gctctctccatgtttgagctcgagt	AA162443
100904	ctctccatgtttgagctcgagttct	AA162443
100905	tctccatgtttgagctcgagttctt	AA162443
100906	tccatgtttgagctcgagttcttct	AA162443
100907	catgtttgagctcgagttcttctat	AA162443
100908	tgtttgagctcgagttcttctatga	AA162443
100909	tttgagctcgagttcttctatgagg	AA162443
100910	tttagtagcccgagagagttgcacg	U58494
100911	cacggctaagcactgcaatggaaag	U58494
100912	ctcaagagctaatcctgtacatggc	U58494
100913	taatcctgtacatggctcctttgac	U58494
100914	tcctgtacatggctcctttgaccta	U58494
100915	tgtacatggctcctttgacctacac	U58494
100916	tggctcctttgacctacacactggg	U58494

TABLE 1

SEQ ID NO	sequence	DBAxnID
15709	gctcatctcagttcccaaacccatt	D43769
15710	ctcagttcccaaacccattgcacaa	D43769
15711	tcccaaacccattgcacaaatactt	D43769
15712	taacgacattcacattcatttcaaa	D43769
15713	cattcacattcatttcaaatgttat	D43769
15714	cagcggctgccagttcaaaaaatca	D43769
15715	gctgatccagaagccaaatgggtga	D43769
15716	gaaactgttcccacaggagcccaga	D43769
15717	gttcccacaggagcccagaggtcca	D43769
15718	acaggagcccagaggtccaccagca	D43769
15719	gcccagaggtccaccagcacagcga	D43769
15720	aggtccaccagcacagcgataaccc	D43769
15721	accagcacagcgataaccctgactg	D43769
15722	aaagcctatcgctgctccatctgtg	W58798
15723	aagcctatcgctgctccatctgtgg	W58798
15724	aaactctaaacacacagacgcagtc	W58798
15725	aactctaaacacacagacgcagtca	W58798
15726	ctctaaacacacagacgcagtcatt	W58798
15727	tctaaacacacagacgcagtcattc	W58798
15728	taaacacacagacgcagtcattccg	W58798
15729	acacacagacgcagtcattccgggg	W58798
15730	cacacagacgcagtcattccgggga	W58798
15731	cacagacgcagtcattccggggaga	W58798
15732	acagacgcagtcattccggggagaa	W58798
15733	agtgtgagacctgcggctcgcgttt	W58798
15734	cctatcgctgctccatctgtggaga	W58798
15735	tatcgctgctccatctgtggagaca	W58798
15736	atcgctgctccatctgtggagacag	W58798
15737	cgctgctccatctgtggagacagtt	W58798
15738	tgctccatctgtggagacagtttta	W58798
15739	gctccatctgtggagacagttttaa	W58798
15740	tccatctgtggagacagttttaacc	W58798
15741	gtaaactctaaacacacagacgcag	W58798
15742	ttggaacttgcctgggatatgctgg	AA096762
15743	gaacttgcctgggatatgctggatt	AA096762
15744	tatatccaagctgtggaggagtttc	AA096762
15745	caggcttgcctaagcctgcaagaac	AA096762
15746	gcttgcctaagcctgcaagaacaat	AA096762
15747	tgcctaagcctgcaagaacaatatt	AA096762
15748	gaagctcacgatcgtctccttgcag	AA096762
15749	gctcacgatcgtctccttgcagaga	AA096762
15750	gatcgtctccttgcagagactcact	AA096762
15751	cgtctccttgcagagactcactacc	AA096762
15752	ctccttgcagagactcactaccaat	AA096762
15753	cttgcagagactcactaccaattag	AA096762
15754	cttgcctgggatatgctggatttag	AA096762
15755	gcagagactcactaccaattaggtt	AA096762
15756	gaagcccagctttatgctgcacaag	AA096762
15757	gcccagctttatgctgcacaagccc	AA096762
15758	cagctttatgctgcacaagcccatc	AA096762
15759	tatgctgcacaagcccatcttaaac	AA096762
15760	gctgcacaagcccatcttaaacttg	AA096762
15761	gcacaagcccatcttaaacttggag	AA096762
15762	aattatatccaagctgtggaggagt	AA096762
15763	tcccaggcagcatctgtcagtatgt	U16740
15764	gcagcatctgtcagtatgtcagagt	U16740
15765	ctaccttcccaggtatattggcagg	U16740
15766	gatctcagaacacacaggtaatgtg	U16740
15767	acctatgacaactggtaatggtgga	U16740
15768	ttacattgtttacacttctatgacc	U16740
15769	tgtttacacttctatgaccaggcct	U16740
15770	cacttctatgaccaggccttagggg	U16740
15771	ccatccatgccacactgtcttctgt	U16740
15772	atgccacactgtcttctgtaccagg	U16740
15773	cactgtcttctgtaccaggtagccc	U16740
15774	cttctgtaccaggtagcccaataga	U16740
15775	tgctagtgcttccttctaaacagga	U16740
15776	tgcttccttctaaacaggatgacca	U16740

SEQ ID NO:	sequence	DBAxnID
58313	gggattccagaccagttgtcatttc	W17452
58314	attccagaccagttgtcatttcccg	W17452
58315	caggaaaccatcttcgcaagcagca	W17452
58316	ttcgcaagcagcagctccttcgtcc	W17452
58317	cgcaagcagcagctccttcgtccaa	W17452
58318	gcaagcagcagctccttcgtccaag	W17452
58319	cagcagctccttcgtccaaggccat	W17452
58320	ttcgtccaaggccattctggggtgt	W17452
58321	ggccattctggggtgtttgccctgg	W17452
58322	ggtgtttgccctggtctgaaggcga	W17452
58323	gtgtttgccctggtctgaaggcgat	W17452
58324	gccctggtctgaaggcgatgggact	W17452
58325	ttccagaccagttgtcatttcccgg	W17452
58326	ccctggtctgaaggcgatgggactc	W17452
58327	gaccagttgtcatttcccgggacat	W17452
58328	atcatgagctggcattggcacagtg	W17452
58329	atgagctggcattggcacagtgttt	W17452
58330	agctggcattggcacagtgtttggt	W17452
58331	cattggcacagtgtttggtagcttg	W17452
58332	aatgcaggaaaccatcttcgcaagc	W17452
58333	gcaggaaaccatcttcgcaagcagc	W17452
58334	tgagacttcctgcaacacaactacc	X70920
58335	attttgcgttgctctggagatagaa	X70920
58336	tctctgatgatccattcaatgacct	X70920
58337	atccattcaatgaccttcatccttg	X70920
58338	cattcaatgaccttcatccttgtcc	X70920
58339	tcctcacttgcaaccaatgcttact	X70920
58340	tcacttgcaaccaatgcttactgga	X70920
58341	cttgcaaccaatgcttactggagtc	X70920
58342	accaatgcttactggagtcctctag	X70920
58343	aatgcttactggagtcctctagcga	X70920
58344	gcttactggagtcctctagcgatga	X70920
58345	cactttataacccctgctgtatagg	X70920
58346	ttgcgttgctctggagatagaagtt	X70920
58347	gctgctcttgaccctggaggcatgt	X70920
58348	ctctcacagaagcaaagtcaagagc	X70920
58349	caagagcaatctctgccttcccatc	X70920
58350	ctgccccactactctggacaatact	X70920
58351	cactactctggacaatactgagatc	X70920
58352	caatactgagatcactggtaatgct	X70920
58353	gacctttctctgatgatccattcaa	X70920
58354	ctttctctgatgatccattcaatga	X70920
58355	atgcagggaacccttctctgaagca	W17589
58356	tgcagggaacccttctctgaagcaa	W17589
58357	ctcctaggcgattctgggctttgct	W17589
58358	aggcgattctgggctttgctgcttc	W17589
58359	ggcgattctgggctttgctgcttca	W17589
58360	cgattctgggctttgctgcttcata	W17589
58361	gctttgctgcttcataggccatggg	W17589
58362	ctttgctgcttcataggccatgggg	W17589
58363	ttgctgcttcataggccatggggcg	W17589
58364	tgctgcttcataggccatggggcgc	W17589
58365	ctgcttcataggccatggggcgctt	W17589
58366	tgcttcataggccatggggcgcttt	W17589
58367	acccttctctgaagcaagaactctt	W17589
58368	cccttctctgaagcaagaactcttc	W17589
58369	gaagcaagaactcttctcctaggcg	W17589
58370	agcaagaactcttctcctaggcgat	W17589
58371	gcaagaactcttctcctaggcgatt	W17589
58372	agaactcttctcctaggcgattctg	W17589
58373	aactcttctcctaggcgattctggg	W17589
58374	tcttctcctaggcgattctgggctt	W17589
58375	ttcctggggactgcgatggcgaccc	X57687
58376	gcgaccccaatgggtcagtgagacc	X57687
58377	tctcccacaggctacttgcagtggc	X57687
58378	acaggctacttgcagtggctttgcc	X57687
58379	gaatcgacaaggccaagtagccatg	X57687
58380	acaaggccaagtagccatgggatcc	X57687

SEQ ID NO	sequence	DBAxnID
100917	ctcctttgacctacacactggggat	U58494
100918	ctttgacctacacactggggatttg	U58494
100919	ggatttgacctctatctccactctc	U58494
100920	tttgacctctatctccactctcatt	U58494
100921	tatctccactctcattaatatgggt	U58494
100922	tggaaaggctctgcggcatatatga	U58494
100923	ggctctgcggcatatatgagcctat	U58494
100924	tatatgagcctattctagggagaca	U58494
100925	atgagcctattctagggagacatgt	U58494
100926	atgtcatctttcatgaaggttcagt	U58494
100927	aacgacacggagcaggtcagggttg	U58494
100928	cctgtgagcctcaagagctaatcct	U58494
100929	agcctcaagagctaatcctgtacat	U58494
100930	gtggctccggatctcttcgtctttg	AA168931
100931	tggctccggatctcttcgtctttgc	AA168931
100932	agcagccatgtcgaagccccatagt	AA168931
100933	gcagccatgtcgaagccccatagtg	AA168931
100934	agccatgtcgaagccccatagtgaa	AA168931
100935	gccatgtcgaagccccatagtgaag	AA168931
100936	catgtcgaagccccatagtgaagcc	AA168931
100937	gtcgaagccccatagtgaagccggg	AA168931
100938	tcgaagccccatagtgaagccggga	AA168931
100939	aagccccatagtgaagccgggactg	AA168931
100940	ccagcttcccgatcagtggagacgt	AA168931
100941	agcttcccgatcagtggagacgttg	AA168931
100942	gctccggatctcttcgtctttgcag	AA168931
100943	tcttcgtctttgcagcgtacgccga	AA168931
100944	cgtacgccgagtcggtcagcgccgg	AA168931
100945	tacgccgagtcggtcagcgccggag	AA168931
100946	gccggagacctcagcagccatgtcg	AA168931
100947	ccggagacctcagcagccatgtcga	AA168931
100948	ggagacctcagcagccatgtcgaag	AA168931
100949	gacctcagcagccatgtcgaagccc	AA168931
100950	cttcttgtcggcttgaaaggacttgg	AA162130
100951	tcttgtcggcttgaaaggacttggg	AA162130
100952	tcgtactgggtctgttggccgaaat	AA162130
100953	gtactgggtctgttggccgaaatag	AA162130
100954	taggcctgaacctcttttggagcga	AA162130
100955	tgaacctcttttggagcgagctcag	AA162130
100956	aacctcttttggagcgagctcagaa	AA162130
100957	tcttttggagcgagctcagaatctc	AA162130
100958	cgagctcagaatctcaaccccatgg	AA162130
100959	agctcagaatctcaaccccatggtg	AA162130
100960	ctcagaatctcaaccccatggtgga	AA162130
100961	cagaatctcaaccccatggtggatg	AA162130
100962	tctcatcttggcaggagtgaaagga	AA162130
100963	gaatctcaaccccatggtggatgtg	AA162130
100964	tcatcttggcaggagtgaaaggaca	AA162130
100965	atcttggcaggagtgaaaggacatg	AA162130
100966	gaaaggacatgccatgctggatcac	AA162130
100967	aaggacatgccatgctggatcacga	AA162130
100968	ggacatgccatgctggatcacgaac	AA162130
100969	acatgccatgctggatcacgaacag	AA162130
100970	atgccatgctggatcacgaacaggt	AA162130
100971	agatacggggttgctcttttgctca	AA162132
100972	tcttttgctcataagaggggcttcg	AA162132
100973	aattaagatcctcaattggctggag	AA162132
100974	aagatcctcaattggctggagggca	AA162132
100975	gatcctcaattggctggagggcaga	AA162132
100976	tcctcaattggctggagggcagatc	AA162132
100977	ctcaattggctggagggcagatctc	AA162132
100978	gggcagatctcgcgagtagggcaac	AA162132
100979	gcagatctcgcgagtagggcaacgc	AA162132
100980	agatctcgcgagtagggcaacgcgg	AA162132
100981	atctcgcgagtagggcaacgcggta	AA162132
100982	cagctgcccaagggcgttcgtaacg	AA162132
100983	tcataagaggggcttcgctggcagt	AA162132
100984	cttcgctggcagtctgaacggcaag	AA162132

TABLE 1

SEQ ID NO	sequence	DBAxnID
15777	atgaccaagtcattccagttcatct	U16740
15778	aagtcattccagttcatcttttcca	U16740
15779	ttccagttcatcttttccatcatcc	U16740
15780	ttttccatcatcctacctgcctaga	U16740
15781	atcatcctacctgcctagaactcat	U16740
15782	ctacctgcctagaactcatgtgtaa	U16740
15783	atcagagctgaccctacaaacacct	W58907
15784	tcagagctgaccctacaaacacctg	W58907
15785	tgttgaagtcccctggacaattgag	W58907
15786	gttgaagtcccctggacaattgagc	W58907
15787	ttgaagtcccctggacaattgagca	W58907
15788	tgaagtcccctggacaattgagcag	W58907
15789	gaagtcccctggacaattgagcagg	W58907
15790	aagtcccctggacaattgagcaggt	W58907
15791	agtcccctggacaattgagcaggtg	W58907
15792	gtcccctggacaattgagcaggtgg	W58907
15793	tcccctggacaattgagcaggtggt	W58907
15794	cagagctgaccctacaaacacctgt	W58907
15795	agagctgaccctacaaacacctgtc	W58907
15796	gagctgaccctacaaacacctgtcc	W58907
15797	ctgtccccgagtttgtgttgaagt	W58907
15798	tgtcccctgagtttgtgttgaagtc	W58907
15799	tttgtgttgaagtcccctggacaat	W58907
15800	ttgtgttgaagtcccctggacaatt	W58907
15801	gtgttgaagtcccctggacaattga	W58907
15802	gttccttctcctacaatgaagaggt	U16741
15803	ccttctcctacaatgaagaggtgat	U16741
15804	tagccatgtatgctgctaaagaaat	U16741
15805	ttttcctttcacctcttccagcatg	U16741
15806	tttcacctcttccagcatggaagat	U16741
15807	ctcttccagcatggaagatggagat	U16741
15808	ccttctcagcaaggttatttagcta	U16741
15809	tatttagctagcttagtgtctaact	U16741
15810	caaggccaaggtctgttgctgtttt	U16741
15811	caaggtctgttgctgttttgagatt	U16741
15812	ggtctgttgctgttttgagattctg	U16741
15813	tttcttgtgacagttatgcaaatta	U16741
15814	tgatccctctgggtcatgtctaaag	U16741
15815	tccctctgggtcatgtctaaagggt	U16741
15816	ctctgggtcatgtctaaagggtttg	U16741
15817	tactgtaaccctgaagttgtctttg	U16741
15818	ttgatgttagcccaggtagttttag	U16741
15819	gggcactctagttaaggtggttgat	U16741
15820	cactctagttaaggtggttgatgga	U16741
15821	tggacttagccatgtatgctgctaa	U16741
15822	gcttctccgagtgcaagcagtaggt	L29454
15823	gaaccaaattgccaagtactcagtt	L29454
15824	ttctctgagactggcccacttgtgc	L29454
15825	gagactggcccacttgtgcactagt	L29454
15826	ggcccacttgtgcactagttgggag	L29454
15827	cttgtgcactagttgggaggaacaa	L29454
15828	atcctccatcacacagcatgtgcaa	L29454
15829	catcacacagcatgtgcaatacgcc	L29454
15830	acagcatgtgcaatacgccaaaatc	L29454
15831	tgtgcaatacgccaaaatcactctc	L29454
15832	atacgccaaaatcactctcagtcat	L29454
15833	cactctcagtcattcctgtcaacaa	L29454
15834	aattgccaagtactcagttcaaata	L29454
15835	ctcagttcaaatacttcatttcaat	L29454
15836	tcaaatacttcatttcaatcaacca	L29454
15837	tttcaatcaaccaaagttagttcag	L29454
15838	gtagcttatctcacttatgagtatg	L29454
15839	tatctcacttatgagtatggtgcag	L29454
15840	tgttaaacatctacaccaaatggta	L29454
15841	agtggattctctgagactggcccac	L29454
15842	ttggagatcctaccgtggagtttgt	W58941
15843	gagatcctaccgtggagtttgtggc	W58941
15844	gagctctgcgtcagaagtctagttt	W58941
58381	agccatgggatcccagaggtcctga	X57687
58382	ccatgaagcccaactggttgcgctt	X57687
58383	agcccaactggttgcgcttgatcca	X57687
58384	actggttgcgcttgatccatgatcc	X57687
58385	tgcgcttgatccatgatcctgttaa	X57687
58386	tgatccatgatcctgttaaccgcga	X57687
58387	tgagacccatcaagttggagcagac	X57687
58388	agttggagcagacatccctgagtcc	X57687
58389	tgagtcctgaggtgcggtgacccaa	X57687
58390	tgctgctcagtgaactccctgtaaa	X57687
58391	aaggatctcaggtcgcccagatgag	X57687
58392	ctcaggtcgcccagatgaggaaacg	X57687
58393	ggaaacgccctgtagctctggaagg	X57687
58394	tagctctggaagggtgaccggcgac	X57687
58395	gtggccactcaaatttactaagccg	W18028
58396	tggccactcaaatttactaagccgt	W18028
58397	gccgtagtgctaccaaggggatctc	W18028
58398	cgtagtgctaccaaggggatctctg	W18028
58399	tgctaccaaggggatctctgaggtt	W18028
58400	gctaccaaggggatctctgaggttg	W18028
58401	taccaaggggatctctgaggttggg	W18028
58402	ggatctctgaggttgggatgtttag	W18028
58403	gatctctgaggttgggatgtttagg	W18028
58404	atctctgaggttgggatgtttaggg	W18028
58405	ccaaatagcatgagtccttgaagac	W18028
58406	atagcatgagtccttgaagacatgg	W18028
58407	gccactcaaatttactaagccgtag	W18028
58408	cactcaaatttactaagccgtagtg	W18028
58409	tcaaatttactaagccgtagtgcta	W18028
58410	tttactaagccgtagtgctaccaag	W18028
58411	ttactaagccgtagtgctaccaagg	W18028
58412	tactaagccgtagtgctaccaaggg	W18028
58413	taagccgtagtgctaccaaggggat	W18028
58414	agccgtagtgctaccaaggggatct	W18028
58415	tagatttcactcacacactcacgtt	W18036
58416	tcactcacacactcacgttcttgat	W18036
58417	tgatcactcgaagcacatttagccc	W18036
58418	gcacatttagcccagatatctggtc	W18036
58419	ttagcccagatatctggtcagcatc	W18036
58420	tctggtcagcatccttagtggcctg	W18036
58421	ccttagtggcctgacgctgtgaatc	W18036
58422	tggcctgacgctgtgaatcattgca	W18036
58423	aattcgcagggactatgttcacagc	W18036
58424	ctatgttcacagcatttttgctgc	W18036
58425	tcacagcatttttgctgcttggcg	W18036
58426	aattttcctcaggtctctttcatct	W18036
58427	cacctaagtcatacacagcagtgac	W18036
58428	agtcatacacagcagtgactttatc	W18036
58429	cttcagatttgtccagaccgtaagc	W18036
58430	atttgtccagaccgtaagctatagc	W18036
58431	ccagaccgtaagctatagcagcagc	W18036
58432	cagcagctgtatgctcattgatcac	W18036
58433	ctgtatgctcattgatcactcgaag	W18036
58434	gctcattgatcactcgaagcacatt	W18036
58435	cacctgcgctgtctgagctgagcac	X62537
58436	atagtagctctgactcggaccctga	X62537
58437	ttgtcacggatgtcacagccaacct	X62537
58438	cggatgtcacagccaacctcatcac	X62537
58439	tgggcttcttcaacttgaggcatta	X62537
58440	attgagaccattgcccgagccgagc	X62537
58441	gttttgctttgatgcctgacctggg	X62537
58442	ctttgatgcctgacctgggggccaa	X62537
58443	actctgccctgtcctgagactcagg	X62537
58444	gaaatggcttcctgctgattctacc	X62537
58445	ctctctgggcctccacttcagtctg	X62537
58446	ccacttcagtctgtcctgtcatctc	X62537
58447	gctctgactcggaccctgactcgac	X62537
58448	agtctgtcctgtcatctcaggaaag	X62537
100985	tcgctggcagtctgaacggcaagct	AA162132
100986	agtctgaacggcaagcttgagtcag	AA162132
100987	aacggcaagcttgagtcaggaccct	AA162132
100988	ttgagtcaggacccttaattaagat	AA162132
100989	ccttaattaagatcctcaattggct	AA162132
100990	ttaattaagatcctcaattggctgg	AA162132
100991	cacggacgaactgcgcaccgtcatt	AA162141
100992	acggacgaactgcgcaccgtcattg	AA162141
100993	ctgcgcaccgtcattgaggacatgc	AA162141
100994	tgcgcaccgtcattgaggacatgct	AA162141
100995	gcgcaccgtcattgaggacatgctg	AA162141
100996	cgtcattgaggacatgctggctatg	AA162141
100997	aggacatgctggctatgccaaggcg	AA162141
100998	ctatgccaaggcggcgctgctcaac	AA162141
100999	tatgccaaggcggcgctgctcaacg	AA162141
101000	cggacgaactgcgcaccgtcattga	AA162141
101001	ggacgaactgcgcaccgtcattgag	AA162141
101002	gacgaactgcgcaccgtcattgagg	AA162141
101003	acgaactgcgcaccgtcattgagga	AA162141
101004	cgaactgcgcaccgtcattgaggac	AA162141
101005	gaactgcgcaccgtcattgaggaca	AA162141
101006	aactgcgcaccgtcattgaggacat	AA162141
101007	actgcgcaccgtcattgaggacatg	AA162141
101008	gaatgtaattcctccacacactcca	AA162142
101009	aatgtaattcctccacacactccag	AA162142
101010	aattttacaacttgcacaggtgatt	AA162142
101011	attttacaacttgcacaggtgattc	AA162142
101012	ttttacaacttgcacaggtgattcc	AA162142
101013	tttacaacttgcacaggtgattcca	AA162142
101014	ttacaacttgcacaggtgattccaa	AA162142
101015	tacaacttgcacaggtgattccaaa	AA162142
101016	acaacttgcacaggtgattccaaaa	AA162142
101017	caacttgcacaggtgattccaaaag	AA162142
101018	aacttgcacaggtgattccaaaagg	AA162142
101019	acttgcacaggtgattccaaaagga	AA162142
101020	atgtaattcctccacacactccagt	AA162142
101021	tgatttcctaattttacaacttgca	AA162142
101022	tttcctaattttacaacttgcacag	AA162142
101023	ttcctaattttacaacttgcacagg	AA162142
101024	tcctaattttacaacttgcacaggt	AA162142
101025	cctaattttacaacttgcacaggtg	AA162142
101026	ctaattttacaacttgcacaggtga	AA162142
101027	taattttacaacttgcacaggtgat	AA162142
101028	cagtggtccctgctattccagtgag	AA161818
101029	tccctgctattccagtgagtcagtg	AA161818
101030	agccctgaaacctcattccatgctg	AA161818
101031	cctgaaacctcattccatgctgtcc	AA161818
101032	gaaacctcattccatgctgtcccaa	AA161818
101033	acctcattccatgctgtcccaagtc	AA161818
101034	tcattccatgctgtcccaagtccag	AA161818
101035	gtcccaagtccagctgattacttgt	AA161818
101036	ccaagtccagctgattacttgtctc	AA161818
101037	agtccagctgattacttgtctcatc	AA161818
101038	ccagctgattacttgtctcatcgtg	AA161818
101039	gctgattacttgtctcatcgtgcta	AA161818
101040	ctgctattccagtgagtcagtgact	AA161818
101041	gattacttgtctcatcgtgctagtg	AA161818
101042	ctattccagtgagtcagtgacttgg	AA161818
101043	gtcagtgacttggctcttaggtctt	AA161818
101044	agctgttcctgcatggctcctttcg	AA161818
101045	tgttcctgcatggctcctttcgccc	AA161818
101046	ctttaggccagccctgaaacctcat	AA161818
101047	taggccagccctgaaacctcattcc	AA161818
101048	gccagccctgaaacctcattccatg	AA161818
101049	tacctggcctgcatcgaggttggaa	AA161769
101050	acctggcctgcatcgaggttggaac	AA161769
101051	cgcagtcctagcagacatcatgaaa	AA161769
101052	gcagtcctagcagacatcatgaaat	AA161769

TABLE 1

SEQ ID NO	sequence	DBAxnID
15845	ctctgcgtcagaagtctagttttat	W58941
15846	ttatagtcaactgtcctgtgatgtc	W58941
15847	tagtcaactgtcctgtgatgtcagc	W58941
15848	tcaactgtcctgtgatgtcagcagt	W58941
15849	ttgagcgcgtgtgcgatctgagata	W58941
15850	agcgcgtgtgcgatctgagatagct	W58941
15851	gatgcgtgactccatatgggatgct	W58941
15852	gcgtgactccatatgggatgctgaa	W58941
15853	tgactccatatgggatgctgaagga	W58941
15854	ctaccgtggagtttgtggccatgcc	W58941
15855	ctccatatgggatgctgaaggagat	W58941
15856	cgccacctgacgtggtcatagagcc	W58941
15857	tcatagagccagctttggcagcaca	W58941
15858	agccagctttggcagcacagtacga	W58941
15859	ctttggcagcacagtacgagcatga	W58941
15860	cgactgctctcccagatgaggatga	W58941
15861	ctctcccagatgaggatgatgagct	W58941
15862	aagctggagctctgcgtcagaagtc	W58941
15863	ttccttcattggcatggagtcagct	U20365
15864	acagccttggctcccagcaccatat	U20365
15865	tctctggggatccccacaagactgc	U20365
15866	gatccccacaagactgctgtcacca	U20365
15867	cacaagactgctgtcaccagccaca	U20365
15868	agactgctgtcaccagccacagatc	U20365
15869	actgctgtcaccagccacagatcat	U20365
15870	tgctgtcaccagccacagatcatta	U20365
15871	ctgtcaccagccacagatcattaaa	U20365
15872	caccagccacagatcattaaaacct	U20365
15873	ccagccacagatcattaaaaccttc	U20365
15874	acagatcattaaaaccttcaagcct	U20365
15875	ccttggctcccagcaccatattatc	U20365
15876	cagatcattaaaaccttcaagcctt	U20365
15877	ggctcccagcaccatattatcgctc	U20365
15878	cagcaccatattatcgctcctcctg	U20365
15879	accatattatcgctcctcctgagcg	U20365
15880	catattatcgctcctcctgagcgga	U20365
15881	cagggccctccattgtccacaggaa	U20365
15882	ttgtccacaggaaatgcttctaaag	U20365
15883	cttctctggggatccccacaagact	U20365
15884	cacgcctacagaacccacaaagctg	W58987
15885	gcctacagaacccacaaagctgtgc	W58987
15886	aggtatcctgactctggtaccccat	W58987
15887	tatcctgactctggtaccccattga	W58987
15888	accccattgaacatcattatcacac	W58987
15889	ttgaacatcattatcacactgggat	W58987
15890	aacatcattatcacactgggatgac	W58987
15891	atcattatcacactgggatgacatg	W58987
15892	attatcacactgggatgacatggaa	W58987
15893	atcacactgggatgacatggaaaga	W58987
15894	aagatctggcacatacattctaaat	W58987
15895	gatctggcacatacattctaaatga	W58987
15896	tacagaacccacaaagctgtgccag	W58987
15897	atctggcacatacattctaaatgac	W58987
15898	agaacccacaaagctgtgccaggat	W58987
15899	gtgacgagaaaccaccgctggtgtg	W58987
15900	acgagaaaccaccgctggtgtgtga	W58987
15901	aaccaccgctggtgtgtgacaatgg	W58987
15902	catcgtgggtcgccagtcaccaggg	W58987
15903	tcgccagtcaccagggtgtcatggt	W58987
15904	gtcaccagggtgtcatggtggtatg	W58987
15905	ctcctggggctgctggtcatgcgga	AA015291
15906	ctgctggtcatgcggaacctactga	AA015291
15907	ggcatccgcaccgttatggtgacag	AA015291
15908	aacctgcagacagcagtcaccgtgg	AA015291
15909	ctgcagacagcagtcaccgtggcca	AA015291
15910	accgtggccagagcttgtggcatgg	AA015291
15911	gagcacctggctgtcatccatgcca	AA015291
15912	ctcgagttcctgccaacggagtcct	AA015291

SEQ ID NO:	sequence	DBAxnID
58449	cctcgcttcccagtgctgcgcagaa	X62537
58450	ttcccagtgctgcgcagaacctatc	X62537
58451	gtgctgcgcagaacctatctgtagc	X62537
58452	acctatctgtagctatccagaccag	X62537
58453	ctatccagaccagccaggactggaa	X62537
58454	actggaaacctacccgcagtctcat	X62537
58455	cccgcagtctcatcgaacacgtctt	X62537
58456	gtccaagatccaaattgtgacaaag	X63473
58457	tgccatcgagatcgtacctgccacg	X63473
58458	tgtcatggtcctggtgaacaccttt	X63473
58459	ggtcctggtgaacacctttgccag	X63473
58460	ggtgaacacctttgccagagctgt	X63473
58461	ttgccagagctgtatccccgaaagg	X63473
58462	ccctgcctgctatgcactctgcaat	X63473
58463	ctgctatgcactctgcaatgccact	X63473
58464	ctgcaatgccactttcaaaaagacc	X63473
58465	ccacctttgctgtgccagtatcgg	X63473
58466	tttgctgtgccagtatcggaacatc	X63473
58467	gtatcggaacatcggcacagccagg	X63473
58468	agcagccaatgtggcccgaaagttt	X63473
58469	caatgtggcccgaaagtttgccagc	X63473
58470	aaagtttgccagcatcgctcgtaac	X63473
58471	tgccagcatcgctcgtaaccaggtg	X63473
58472	agtgactcggacaatctttgccatt	X63473
58473	tcggacaatctttgccattctgctg	X63473
58474	cacctggacaccctacaatgtcatg	X63473
58475	ctacaatgtcatggtcctggtgaac	X63473
58476	ggccctttccacatcgcaggaacgg	X72805
58477	cacatcgcaggaacgggcaggaatg	X72805
58478	ggcctccagatctcccaagagtagc	X72805
58479	atctcccaagagtagcaagaccaag	X72805
58480	caagaccaaggctgtcaagaagcca	X72805
58481	gccaaaggctacgcccacaaaagct	X72805
58482	tacgcccacaaaagcttctgggagc	X72805
58483	agccagggcagcaaaccccaattct	X72805
58484	ggcagcaaaccccaattctgggaag	X72805
58485	tcttttaagagccacttacatactt	X72805
58486	tttaagagccacttacatacttctt	X72805
58487	agccacttacatacttcttaaaatg	X72805
58488	aggaatgtccttgctgccctgaag	X72805
58489	ccttgctgccctgaagaaagccctg	X72805
58490	tgctgccctgaagaaagccctggct	X72805
58491	cctggctgcggctggttacgacgtg	X72805
58492	catcaagctggccctcaagagactt	X72805
58493	gctggccctcaagagacttgtgaat	X72805
58494	ctcaggctccttcaagctcagtaag	X72805
58495	gaaatctgcttctgccaaggctaag	X72805
58496	caacctatcatttgactggtacatc	X07640
58497	gtacatcaagacttctcatggtcac	X07640
58498	cagctccattgggggcctggtgctc	X07640
58499	cattgggggcctggtgctcttggct	X07640
58500	cttggctctcatcactgctggccta	X07640
58501	tctcatcactgctggcctatacaag	X07640
58502	tggcctatacaagcttggctttttc	X07640
58503	gcttggctttttcaagcggcagtac	X07640
58504	acggccttttctccaatgcattgac	X07640
58505	gatggtcagaccaacaccgaagcta	X07640
58506	cagaccaacaccgaagctagtgaca	X07640
58507	acatatgttgttgctgtgatgtctt	X07640
58508	ttctcatggtcacctcctgcttgtg	X07640
58509	cctcctgcttgtgagcagcactgag	X07640
58510	cactgagatcctgtttaatgactct	X07640
58511	gatcctgtttaatgactctgcgttt	X07640
58512	gtttaatgactctgcgtttgccctg	X07640
58513	atatgaagttcacaatcctgtacca	X07640
58514	agttcacaatcctgtaccactcatt	X07640
58515	tgtaccactcattgtgggcagctcc	X07640
58516	aagcccaagactatcatcacgtcca	W20642

SEQ ID NO	sequence	DBAxnID
101053	cagtcctagcagacatcatgaaata	AA161769
101054	agtcctagcagacatcatgaaatac	AA161769
101055	tcctagcagacatcatgaaatacgt	AA161769
101056	acaacttttggatgaccagacaaga	AA161769
101057	agggtgtccgtgtgctggagaaact	AA161769
101058	gtgtccgtgtgctggagaaacttgg	AA161769
101059	tgtccgtgtgctggagaaacttggt	AA161769
101060	ccatcacgcctctaatgctttttct	AA161769
101061	cctggcctgcatcgaggttggaacg	AA161769
101062	gcctgcatcgaggttggaacgagag	AA161769
101063	cctgcatcgaggttggaacgagagc	AA161769
101064	tgcatcgaggttggaacgagagctt	AA161769
101065	acagctttacttagaacgagttctg	AA161769
101066	gaagcacatggtgttcttgggtggc	AA161769
101067	tggcgcagtcctagcagacatcatg	AA161769
101068	ggcgcagtcctagcagacatcatga	AA161769
101069	tgcatgcctggttctctgcgtctgc	V00714
101070	atgcctggttctctgcgtctgcaaa	V00714
101071	tgtcttctgagtctgggcagcagtc	V00714
101072	cttctgagtctgggcagcagtccct	V00714
101073	ctccactgacagccatgtgtcttct	V00714
101074	cactgacagccatgtgtcttctcct	V00714
101075	tgacagccatgtgtcttctcctcga	V00714
101076	ccatgtgtcttctcctcgagccaaa	V00714
101077	tgtgtcttctcctcgagccaaagaa	V00714
101078	tcgtctttggagggtccttatcaca	V00714
101079	tctttggagggtccttatcacagga	V00714
101080	ggtccttatcacaggacctctgagg	V00714
101081	cctggttctctgcgtctgcaaaggt	V00714
101082	gtccttatcacaggacctctgaggg	V00714
101083	tctctgcgtctgcaaaggtgtcatg	V00714
101084	gcagctcatttgccatggggcagta	V00714
101085	tggatgcctacacacacacacatat	V00714
101086	atgcctacacacacacacatatgtc	V00714
101087	cacacacacatatgtcttctgagtc	V00714
101088	acacacatatgtcttctgagtctgg	V00714
101089	cacatatgtcttctgagtctgggca	V00714
101090	actctctagtcaggcttatcacatc	M92850
101091	tagtcaggcttatcacatcccacca	M92850
101092	catatagttcctgtgtaatggtcag	M92850
101093	tggtcagtcatcttttgtagctcta	M92850
101094	gtcatcttttgtagctctacctagt	M92850
101095	agctctacctagttaagtctctctg	M92850
101096	ttaagtctctctgaagaaaattcac	M92850
101097	ctcactattcattattcttcacatt	M92850
101098	attcattattcttcacattcaacat	M92850
101099	tattcttcacattcaacataatcag	M92850
101100	tcacattcaacataatcagtggttt	M92850
101101	tttgcttgttcaggggacaatgacc	M92850
101102	ggcttatcacatcccaccaagaata	M92850
101103	gcagatatcatttaccccaaatatt	M92850
101104	tctgtgacacattcatgaagtcaaa	M92850
101105	agtcaaatctagccaatgactatac	M92850
101106	atctagccaatgactatacattgtc	M92850
101107	actatacattgtctgtatgactaaa	M92850
101108	agtcactaaaactcatatgactaat	M92850
101109	tgttccaagagcacaatgaagtaag	M92850
101110	gccttccttctccagcatggtgagc	W10994
101111	tccttctccagcatggtgagctgcg	W10994
101112	tgcgggaccgccaacatgagctgca	W10994
101113	cgggaccgccaacatgagctgcaat	W10994
101114	accgccaacatgagctgcaatggac	W10994
101115	cgccaacatgagctgcaatggacat	W10994
101116	aagacctgcttgctgatgagctacg	W10994
101117	gacctgcttgctgatgagctacgcc	W10994
101118	tgcttgctgatgagctacgccaacg	W10994
101119	cttgctgatgagctacgccaacgac	W10994
101120	ctgatgagctacgccaacgacgcct	W10994

TABLE 1

SEQ ID NO	sequence	DBAxnID
15913	ttcctgccaacggagtcctctgcag	AA015291
15914	ccaacggagtcctctgcagtcatga	AA015291
15915	acggagtcctctgcagtcatgaacg	AA015291
15916	tctgcagtcatgaacggggcgaagg	AA015291
15917	ctggtcatgcggaacctactgaagc	AA015291
15918	gcacaggctatcccacggtgccgga	AA015291
15919	gtcatgcggaacctactgaagccac	AA015291
15920	ctactgaagccacagacggccccag	AA015291
15921	cagacggccccagttatccagactc	AA015291
15922	gccccagttatccagactctgagga	AA015291
15923	ccagttatccagactctgaggaaga	AA015291
15924	aagacgggcatccgcaccgttatgg	AA015291
15925	acgggcatccgcaccgttatggtga	AA015291
15926	catcagcttgggttatgatattggc	W71889
15927	agtgacgttccaggccttcatcgac	W71889
15928	agatcaggtcatggcttccttcaag	W71889
15929	tcaggtcatggcttccttcaagatc	W71889
15930	ggtcatggcttccttcaagatcctg	W71889
15931	ggcttccttcaagatcctggctgga	W71889
15932	ttccttcaagatcctggctggagat	W71889
15933	gatcctggctggagataagaattac	W71889
15934	gaattacatcacagaggatgagctg	W71889
15935	tgaccaagccgagtactgcatcgaa	W71889
15936	ccaagccgagtactgcatcgaagaa	W71889
15937	agccgagtactgcatcgaagaatgg	W71889
15938	gacgttccaggccttcatcgacttt	W71889
15939	gttccaggccttcatcgactttatg	W71889
15940	ggccttcatcgactttatgtcccga	W71889
15941	catcgactttatgtcccgagagacg	W71889
15942	tatgtcccgagagacggcagatact	W71889
15943	gtcccgagagacggcagatactgat	W71889
15944	tgatactgcagatcaggtcatggct	W71889
15945	tactgcagatcaggtcatggcttcc	W71889
15946	ccgctgcccagatggaaggcttcct	M74773
15947	tggaaggcttcctcaatcggaagca	M74773
15948	tgaacacatggatccaggctatctc	M74773
15949	cctctgacaaacacgacacatctgc	M74773
15950	ctgacaaacacgacacatctgccag	M74773
15951	gcacccagagtacgccagcatccag	M74773
15952	cccagagtacgccagcatccagtcg	M74773
15953	tcgtcaccatcaccagcgagtccag	M74773
15954	ccatcaccagcgagtccagtcctgg	M74773
15955	tcaccagcgagtccagtcctggcaa	M74773
15956	ccagcgagtccagtcctggcaagag	M74773
15957	gtaagagtccagcatgcaagttccg	M74773
15958	aaggcttcctcaatcggaagcatga	M74773
15959	tcctcaatcggaagcatgagtggga	M74773
15960	cccacaataagaaagcctcgagcag	M74773
15961	cctcgagcaggtcctggcacaatgt	M74773
15962	gtgaggtccctgtgagtttgaaaga	M74773
15963	ccatctgcgaagtggcccttgatta	M74773
15964	tctgcgaagtggcccttgattacaa	M74773
15965	acctcttccaagccaaagatgatga	M74773
15966	taagactcggacaggacaggtgcta	L12703
15967	acatctattctctaactcactgtat	L12703
15968	gccaaactgcttacgaccgtgtata	L12703
15969	tgtgtagcgatctctatttgctgga	L12703
15970	gcgatctctatttgctggacatttt	L12703
15971	ttccttttctggagactccttgaga	L12703
15972	cttttctggagactccttgagaaat	L12703
15973	ttctggagactccttgagaaataca	L12703
15974	cttgagaaatacaaccccacagact	L12703
15975	actgaaccgccgctacaagccaaag	L12703
15976	gaaccgccgctacaagccaaagatt	L12703
15977	ttcagaaacctgtagtctgaaataa	L12703
15978	attctctaactcactgtataagatg	L12703
15979	tcagaaacctgtagtctgaaataaa	L12703
15980	ctctaactcactgtataagatgaaa	L12703

SEQ ID NO:	sequence	DBAxnID
58517	actatcatcacgtccaagatgcctg	W20642
58518	gtaccccagcacatgcagactagat	W20642
58519	atgcagactagattcccgagtgact	W20642
58520	ttcccgagtgactctgattgtgcac	W20642
58521	gactctgattgtgcacgcaagaagc	W20642
58522	gcacgcaagaagctgcttggttcta	W20642
58523	agaccagagacatcagcagctgggt	W20642
58524	acatcagcagctgggtacctctgat	W20642
58525	gggtacctctgatgccgcggagtgt	W20642
58526	tacctctgatgccgcggagtgtgac	W20642
58527	tgatgccgcggagtgtgacatcaag	W20642
58528	atcacgtccaagatgcctgtcaagt	W20642
58529	tccaagatgcctgtcaagtgagtca	W20642
58530	aagatgcctgtcaagtgagtcagtc	W20642
58531	tgagtcagtccacgactcctctgca	W20642
58532	agtccacgactcctctgcacaaaag	W20642
58533	cgactcctctgcacaaaagctgtgg	W20642
58534	ctctgcacaaaagctgtgggatccg	W20642
58535	gaacgcgtaccccagcacatgcaga	W20642
58536	tgtgattctcgtcctcgagaagcag	W20877
58537	gtgattctcgtcctcgagaagcagg	W20877
58538	actactttccaggaggtcgctgcgc	W20877
58539	ctactttccaggaggtcgctgcgct	W20877
58540	tactttccaggaggtcgctgcgctg	W20877
58541	ctttccaggaggtcgctgcgctgac	W20877
58542	tttccaggaggtcgctgcgctgaca	W20877
58543	ttccaggaggtcgctgcgctgacac	W20877
58544	tccaggaggtcgctgcgctgacacc	W20877
58545	gtcgctgcgctgacaccgagtgcgt	W20877
58546	tcgctgcgctgacaccgagtgcgtg	W20877
58547	cgctgcgctgacaccgagtgcgtga	W20877
58548	tgattctcgtcctcgagaagcagga	W20877
58549	gattctcgtcctcgagaagcaggac	W20877
58550	ttctcgtcctcgagaagcaggacct	W20877
58551	tcgtcctcgagaagcaggacctgcg	W20877
58552	tcctcgagaagcaggacctgcgtgg	W20877
58553	caggacctgcgtggtgagagagtcc	W20877
58554	aggactactttccaggaggtcgctg	W20877
58555	gactactttccaggaggtcgctgcg	W20877
58556	tcaaacaggacctacatcagagccc	X68273
58557	tacatcagagcccgagtacagtcta	X68273
58558	tctctctaaggctacaggctgctca	X68273
58559	taaggctacaggctgctcagctgcc	X68273
58560	tacaggctgctcagctgcctgacaa	X68273
58561	ctgctcagctgcctgacaagggaca	X68273
58562	ggccatgtttctcttgcaaccgtga	X68273
58563	tcacccgcagacgacaatcaaccta	X68273
58564	gcagacgacaatcaacctaccagcc	X68273
58565	ctgccccagtccactgtgtaagcca	X68273
58566	accaaggagcgcctcatctcttcac	X68273
58567	tctctgtctttaggaacacaatgaa	X68273
58568	acaatgtgtccttcccacaggcagc	X68273
58569	tgtccttcccacaggcagcacagtg	X68273
58570	tcccacaggcagcacagtggacatt	X68273
58571	cgcagaattcatctcttcgagagct	X68273
58572	gagagctccaagctcccttgggcca	X68273
58573	aaagcttctgctgtggaaatgcaag	X68273
58574	ttctttctccagctgttcaccttga	X68273
58575	ctgttcaccttgacctgctctctct	X68273
58576	agcagctagctcaggcgaccgcgag	W20541
58577	gcagctagctcaggcgaccgcgagt	W20541
58578	gcgagtccctgacagtacatcgcag	W20541
58579	cgagtccctgacagtacatcgcagt	W20541
58580	gagtccctgacagtacatcgcagtg	W20541
58581	agtccctgacagtacatcgcagtgc	W20541
58582	gtccctgacagtacatcgcagtgca	W20541
58583	aaggatcgctgcgccgtctacagcc	W20541
58584	aggatcgctgcgccgtctacagcct	W20541

SEQ ID NO:	sequence	DBAxnID
101121	gatgagctacgccaacgacgccttc	W10994
101122	cttctccagcatggtgagctgcggg	W10994
101123	gacgccttcccagaggaatacgtgc	W10994
101124	tccagcatggtgagctgcggggctc	W10994
101125	tcaggccgcctgagctccagcctgg	W10994
101126	tccatgcactgcagaagccccagca	W10994
101127	catgcactgcagaagccccagcagc	W10994
101128	cactgcagaagccccagcagctgct	W10994
101129	ctgcagaagccccagcagctgctgc	W10994
101130	cagcagctgctgcgggaccgccaac	W10994
101131	cactccggggcgcacgatgatggag	W18541
101132	gcccaccgtgatggttttcatcagc	W18541
101133	cagtcgtagcctcaccatcgcagag	W18541
101134	gtcgtagcctcaccatcgcagagtt	W18541
101135	caccatcgcagagttcaagtgtaaa	W18541
101136	ccatcgcagagttcaagtgtaaact	W18541
101137	ggcagccctgcttcctgcatggaac	W18541
101138	cagccctgcttcctgcatggaactg	W18541
101139	tgcttcctgcatggaactggagcta	W18541
101140	cttcctgcatggaactggagctata	W18541
101141	acaagttctacagcaagttggatca	W18541
101142	aagttctacagcaagttggatcagg	W18541
101143	atggttttcatcagcagctccctca	W18541
101144	ttttcatcagcagctccctcaacag	W18541
101145	ttcatcagcagctccctcaacagct	W18541
101146	cagcttccgttcggagaagcgatac	W18541
101147	gcttccgttcggagaagcgatacag	W18541
101148	gcgatacagtcgtagcctcaccatc	W18541
101149	gatacagtcgtagcctcaccatcgc	W18541
101150	tacagtcgtagcctcaccatcgcag	W18541
101151	ggctgcgcgctacgtttgtacacac	AA140394
101152	tgcgcgctacgtttgtacacacaga	AA140394
101153	gcagccaggccttcagaggttcatg	AA140394
101154	aggccttcagaggttcatggagaca	AA140394
101155	ctgagaacaccagagtctccttgct	AA140394
101156	ccccaagtgcctgtggccgctgtgt	AA140394
101157	caagtgcctgtggccgctgtgtggc	AA140394
101158	ctaccaggtcccttagggctcaatg	AA140394
101159	ccaggtcccttagggctcaatggag	AA140394
101160	gggcatctccattatccgtgcgtgc	AA140394
101161	catctccattatccgtgcgtgccta	AA140394
101162	ctccattatccgtgcgtgcctagct	AA140394
101163	gcgctacgtttgtacacacagactc	AA140394
101164	ctacgtttgtacacacagactcttc	AA140394
101165	tacacacagactcttccggatacct	AA140394
101166	acacagactcttccggataccttct	AA140394
101167	cagactcttccggataccttcttgt	AA140394
101168	ccggataccttcttgtctggcccag	AA140394
101169	gataccttcttgtctggcccagcag	AA140394
101170	accttcttgtctggcccagcaggga	AA140394
101171	ctcttttcagctgacttactgtata	AA035993
101172	cttttcagctgacttactgtatatc	AA035993
101173	tctgaccttgcggtgattacaaaac	AA035993
101174	ctgaccttgcggtgattacaaaaca	AA035993
101175	agaaggtccatatcagcctctgagc	AA035993
101176	gaaggtccatatcagcctctgagct	AA035993
101177	aggtccatatcagcctctgagctcg	AA035993
101178	ggtccatatcagcctctgagctcgg	AA035993
101179	cagcctctgagctcggcaagcctgg	AA035993
101180	gcctctgagctcggcaagcctgggt	AA035993
101181	cctctgagctcggcaagcctgggtc	AA035993
101182	ctctgagctcggcaagcctgggtcg	AA035993
101183	ttttcagctgacttactgtatatct	AA035993
101184	tttcagctgacttactgtatatctt	AA035993
101185	tcagctgacttactgtatatcttta	AA035993
101186	ctgacttactgtatatctttaaaat	AA035993
101187	cattcttagactaactaaacctctg	AA035993
101188	aacctctgaccttgcggtgattaca	AA035993

TABLE 1

SEQ ID NO	sequence	DBAxnID
15981	gaaactgcgaattccttaaagctct	L12703
15982	actgcgaattccttaaagctctatc	L12703
15983	gcgaattccttaaagctctatcatg	L12703
15984	ttaaagctctatcatgccaaactgc	L12703
15985	aagctctatcatgccaaactgctta	L12703
15986	tatcatgccaaactgcttacgaccg	L12703
15987	ttcacacaaaggcgtatcctcataa	M24401
15988	acacaaaggcgtatcctcataaatg	M24401
15989	atgttccattcaagtgtaagagatg	M24401
15990	aatttcaacaacagtgtgagcttca	M24401
15991	ttcaacaacagtgtgagcttcaaac	M24401
15992	aagttggcctgctctaagtgtgtaa	M24401
15993	tgtgtaatcctaacatatggggaca	M24401
15994	gtaatcctaacatatggggacattg	M24401
15995	attggcattcaggcaggaaattcat	M24401
15996	aagtaggcatccttgttcacattca	M24401
15997	gcatccttgttcacattcaatgtca	M24401
15998	tccttgttcacattcaatgtcatga	M24401
15999	caaaggcgtatcctcataaatgtga	M24401
16000	actttaatagtccagatccatttct	M24401
16001	ttaatagtccagatccatttctgct	M24401
16002	cagatccatttctgcttagtcacca	M24401
16003	ttagtcaccatattctctcagctca	M24401
16004	accatattctctcagctcacacaaa	M24401
16005	cagctcacacaaagaatgttccatt	M24401
16006	ctcacacaaagaatgttccattcaa	M24401
16007	gagcatcagtacctctgaggtcagg	W59041
16008	ctctgaggtcaggccctatgcaaag	W59041
16009	gttctgagtccctacatcgagcacc	W59041
16010	tgagtccctacatcgagcacccagt	W59041
16011	agtccctacatcgagcacccagtca	W59041
16012	tccctacatcgagcacccagtcaaa	W59041
16013	cctacatcgagcacccagtcaaagt	W59041
16014	tacatcgagcacccagtcaaagtgg	W59041
16015	catcgagcacccagtcaaagtggga	W59041
16016	tcgagcacccagtcaaagtgggaag	W59041
16017	gagcacccagtcaaagtgggaagca	W59041
16018	gcacccagtcaaagtgggaagcata	W59041
16019	gaggtcaggccctatgcaaagattg	W59041
16020	gacgctatgccacagccctgtacta	W59041
16021	cacagccctgtactatgctgcatat	W59041
16022	cagccctgtactatgctgcatatac	W59041
16023	tgtactatgctgcatatacggagac	W59041
16024	ctatgctgcatatacggagacgcag	W59041
16025	atgctgcatatacggagacgcagat	W59041
16026	tgcatatacggagacgcagatggaa	W59041
16027	aaatgcacctgtgactcaaccttgg	U10532
16028	gactcaaccttggagaaggacaggg	U10532
16029	atgcttctttgtacttttccagtgg	U10532
16030	gcctgtggtcagtctacctgtattt	U10532
16031	ggtcagtctacctgtatttctaaca	U10532
16032	tctacctgtatttctaacagttgca	U10532
16033	tgtatttctaacagttgcatactcc	U10532
16034	agttgcatactccaaagcctgcagt	U10532
16035	gagtacctgtgtccatggtatgcaa	U10532
16036	ctgtgtccatggtatgcaatatttc	U10532
16037	atatttcaggctcagcttagataca	U10532
16038	caggctcagcttagatacagaggta	U10532
16039	gagcccgagtatgcggctcagctgg	U10532
16040	caaagactagaccatgctgaggccg	U10532
16041	catgctgaggccgacaggcaggaac	U10532
16042	acacggcttgtgtttgtcgcttgct	U10532
16043	tttgtcgcttgctttgaaaattgaa	U10532
16044	attctaacatcttattgcatgaagg	U10532
16045	acatcttattgcatgaaggtagcta	U10532
16046	aggcattctgttcatttgtatggca	U10532
16047	tctgcccaaggccataccaagctct	AA116469
16048	caaggccataccaagctctgtagtc	AA116469

SEQ ID NO:	sequence	DBAxnID
58585	gatcgctgcgccgtctacagcctgc	W20541
58586	ccaggaccgcaactagagtaagcgt	W20541
58587	caggaccgcaactagagtaagcgtc	W20541
58588	tagctcaggcgaccgcgagtccctg	W20541
58589	caggcgaccgcgagtccctgacagt	W20541
58590	gcgaccgcgagtccctgacagtaca	W20541
58591	cgaccgcgagtccctgacagtacat	W20541
58592	gaccgcgagtccctgacagtacatc	W20541
58593	accgcgagtccctgacagtacatcg	W20541
58594	ccgcgagtccctgacagtacatcgc	W20541
58595	cgcgagtccctgacagtacatcgca	W20541
58596	gcaatgcctgggaccatgtaaaact	X16998
58597	aatgcctgggaccatgtaaaactgt	X16998
58598	gttctagccagggttggaggacagc	X16998
58599	tctagccagggttggaggacagcct	X16998
58600	ggacagccttgtcttaggtttctgc	X16998
58601	acagccttgtcttaggtttctgcac	X16998
58602	agccttgtcttaggtttctgcactg	X16998
58603	ccttgtcttaggtttctgcactgca	X16998
58604	gtcttaggtttctgcactgcaggac	X16998
58605	cttaggtttctgcactgcaggactc	X16998
58606	taggtttctgcactgcaggactcag	X16998
58607	ggtttctgcactgcaggactcagag	X16998
58608	tgtcctggttctttccaaggtatag	X16998
58609	ggttctttccaaggtatagagcata	X16998
58610	ttctttccaaggtatagagcatagc	X16998
58611	gagcatagctcatgggctgatagtt	X16998
58612	gcatagctcatgggctgatagttct	X16998
58613	atagctcatgggctgatagttctag	X16998
58614	ctgatagttctagccagggttggag	X16998
58615	tagttctagccagggttggaggaca	X16998
58616	agacccttaccactgtccagtggat	W20916
58617	cccttaccactgtccagtggatcgc	W20916
58618	accagccgcaagacatatgcagatt	W20916
58619	acatatgcagattcctgagagagat	W20916
58620	tttggctgcctaaggacgatccagc	W20916
58621	atccagctgaaggtcatgggtgtta	W20916
58622	agatgcttgtagctctgttaaacgt	W20916
58623	ttgtagctctgttaaacgttagtgg	W20916
58624	gacggatcctctctcaatgagtccg	W20916
58625	tcctctctcaatgagtccgaatctc	W20916
58626	tctctcaatgagtccgaatctcctt	W20916
58627	ctcaatgagtccgaatctccttctg	W20916
58628	ttaccactgtccagtggatcgctca	W20916
58629	ctgtccagtggatcgctcatgatta	W20916
58630	tccagtggatcgctcatgattacga	W20916
58631	taattcagctacagggttaccagcc	W20916
58632	ttcagctacagggttaccagccgca	W20916
58633	agctacagggttaccagccgcaaga	W20916
58634	agggttaccagccgcaagacatatg	W20916
58635	gttaccagccgcaagacatatgcag	W20916
58636	gtccttctgtcagagcaaagagcct	AA080223
58637	gagcaaagagcctccagggacagtg	AA080223
58638	tcctgattctgcaacggagttgtgg	AA080223
58639	tgattctgcaacggagttgtggaag	AA080223
58640	gaagacagaacctcaagatgcagga	AA080223
58641	gacagaacctcaagatgcaggagac	AA080223
58642	agaacctcaagatgcaggagaccag	AA080223
58643	aggcaacacttgcatcctcagggag	AA080223
58644	caacacttgcatcctcagggaggaa	AA080223
58645	ttgcatcctcagggaggaagccagg	AA080223
58646	catcctcagggaggaagccaggatg	AA080223
58647	gtcagcagagcctacagccctgctc	AA080223
58648	caaagagcctccagggacagtgtct	AA080223
58649	tccagggacagtgtcttggtaatgt	AA080223
58650	atgtccagggctccaggaagagatg	AA080223
58651	agagatgtccttgtggctggaggcc	AA080223
58652	gtccttgtggctggaggcctcaatg	AA080223

SEQ ID NO:	sequence	DBAxnID
101189	acctctgaccttgcggtgattacaa	AA035993
101190	ctctgaccttgcggtgattacaaaa	AA035993
101191	gacgttactcgcattcgatctgtgg	AA162614
101192	actcgcattcgatctgtggctgagg	AA162614
101193	atcagaggcacctcgtcggtcatac	AA162614
101194	acctcgtcggtcatacacctgagct	AA162614
101195	tcggtcatacacctgagctggtgca	AA162614
101196	atacacctgagctggtgcatctaga	AA162614
101197	cacctgagctggtgcatctagactc	AA162614
101198	tgcatctagactctcctactcagtt	AA162614
101199	atctagactctcctactcagttctt	AA162614
101200	tgactgcatcattacaaccaagtat	AA162614
101201	ctgcatcattacaaccaagtatctg	AA162614
101202	caagtatctggggaccgtcatgtcg	AA162614
101203	cgcattcgatctgtggctgaggatc	AA162614
101204	ctcacaacgcatgtagcgcgttctg	AA162614
101205	acgcatgtagcgcgttctgcaatca	AA162614
101206	catgtagcgcgttctgcaatcataa	AA162614
101207	gtagcgcgttctgcaatcataatca	AA162614
101208	cgttctgcaatcataatcagaggca	AA162614
101209	tctgcaatcataatcagaggcacct	AA162614
101210	ataatcagaggcacctcgtcggtca	AA162614
101211	gtattttctaagtgctccttctgag	X02677
101212	aagtgctccttctgagcctcagttc	X02677
101213	tcaccacagaacgcttgtttccacg	X02677
101214	tgtttccacgttctagaaatgaggg	X02677
101215	ttccacgttctagaaatgagggcag	X02677
101216	ctaccttgtagggagctgggaggat	X02677
101217	aagcgtttgccatgttttgggcaca	X02677
101218	cctgccttgcctgctccttgaacat	X02677
101219	gccttgcctgctccttgaacattac	X02677
101220	ttgcctgctccttgaacattaccaa	X02677
101221	cctgctccttgaacattaccaaaga	X02677
101222	ccttgaacattaccaaagagaatgg	X02677
101223	caaccccagctaagctgaatcttgg	X02677
101224	ttttgccaataaacgtgtctgtgtt	X02677
101225	ggaacaagctttgacccattggagt	X02677
101226	acaagctttgacccattggagtagg	X02677
101227	agctttgacccattggagtaggaga	X02677
101228	aaagcacatgcctgccctcctggca	X02677
101229	cctggcacatcaccacagaacgctt	X02677
101230	ggcacatcaccacagaacgcttgtt	X02677
101231	acatcaccacagaacgcttgtttcc	X02677
101232	atactagtctcttcatcctactgca	AA162031
101233	tcatcctactgcattgtgacgatcg	AA162031
101234	actggcaagaacacctgtgagatca	AA162031
101235	tcatcgtgaagacgctgctgtagta	AA162031
101236	tgaagacgctgctgtagtatgctgt	AA162031
101237	tgacatgacgcaaacgacttaccgt	AA162031
101238	tgtcgtggcacctaatgctgctgct	AA162031
101239	ggcacctaatgctgctgctatgtga	AA162031
101240	taatgctgctgctatgtgaaactgc	AA162031
101241	aaactgctctgctcgtcaacggatt	AA162031
101242	ctctgctcgtcaacggattactact	AA162031
101243	tcgtcaacggattactacttgacgg	AA162031
101244	attgtgacgatcgcctatcgctcta	AA162031
101245	acgatcgcctatcgctctacatcca	AA162031
101246	cgctctacatccaacctggaacata	AA162031
101247	atcatcaagtgcctgacatttcgag	AA162031
101248	aagtgcctgacatttcgagactact	AA162031
101249	tttcgagactactctactatggact	AA162031
101250	gactactctactatggactacatca	AA162031
101251	tctactatggactacatcactggca	AA162031
101252	tcttcccgccttcaggaacatcaga	AA162708
101253	ttcccgccttcaggaacatcagaaa	AA162708
101254	ttatcactcgtttcttaggagacac	AA162708
101255	atcactcgtttcttaggagacacaa	AA162708
101256	tcactcgtttcttaggagacacaaa	AA162708

TABLE 1

SEQ ID NO	sequence	DBAxnID
16049	tctccatgtactcgtgccccatcag	AA116469
16050	ccatcagtgtccaggccccaaggta	AA116469
16051	gattcaactttagggctctctggaa	AA116469
16052	aatacaaagctgctttctcatgctg	AA116469
16053	aagctgctttctcatgctgggagcg	AA116469
16054	aattacacagcatgtttctactcgg	AA116469
16055	acagcatgtttctactcggtattta	AA116469
16056	gtatttatcaatttcacagaggtta	AA116469
16057	atcaatttcacagaggttatgcgcc	AA116469
16058	atgcgccaggtaactcaattcagac	AA116469
16059	cataccaagctctgtagtctctcgt	AA116469
16060	aagctctgtagtctctcgtgttgac	AA116469
16061	ctctcgtgttgacctcaatggcatg	AA116469
16062	tgttgacctcaatggcatgtcggta	AA116469
16063	cctcaatggcatgtcggtaagcctg	AA116469
16064	tggcatgtcggtaagcctgaatagc	AA116469
16065	ctgcagacgtgttcttcatctccat	AA116469
16066	acgtgttcttcatctccatgtactc	AA116469
16067	agctgcctgctcatcctaatccatc	M33225
16068	gcctgctcatcctaatccatccagg	M33225
16069	gccactgatgctggtgcctgatgac	M33225
16070	cactgatgctggtgcctgatgacca	M33225
16071	ctgatgctggtgcctgatgaccact	M33225
16072	ggtgcctgatgaccacttctcaata	M33225
16073	tgcctgatgaccacttctcaataaa	M33225
16074	cctgatgaccacttctcaataaatt	M33225
16075	atgaccacttctcaataaattgttc	M33225
16076	gaccacttctcaataaattgttcgc	M33225
16077	ccacttctcaataaattgttcgcaa	M33225
16078	acttctcaataaattgttcgcaata	M33225
16079	ctgctcatcctaatccatccaggtg	M33225
16080	tcatcctaatccatccaggtgactc	M33225
16081	cctaatccatccaggtgactcgcag	M33225
16082	taatccatccaggtgactcgcagcc	M33225
16083	gagtactgaggccactgatgctggt	M33225
16084	gtactgaggccactgatgctggtgc	M33225
16085	actgaggccactgatgctggtgcct	M33225
16086	tgaggccactgatgctggtgcctga	M33225
16087	acacattgggctcctgctcaccaat	
16088	cacattgggctcctgctcaccaatc	
16089	ttgtcctactgtcctttcaggtcca	
16090	tgtcctactgtcctttcaggtccag	
16091	gtcctactgtcctttcaggtccagg	
16092	tcctactgtcctttcaggtccaggc	
16093	cctactgtcctttcaggtccaggct	
16094	attgggctcctgctcaccaatcctc	
16095	ctttctgcccttgtcctactgtcct	
16096	tttctgcccttgtcctactgtcctt	
16097	ttctgcccttgtcctactgtccttt	
16098	tctgcccttgtcctactgtcctttc	
16099	ctgcccttgtcctactgtcctttca	
16100	tgcccttgtcctactgtcctttcag	
16101	gcccttgtcctactgtcctttcagg	
16102	acacattgggctcctgctcaccaat	
16103	cacattgggctcctgctcaccaatc	
16104	gcccttgtcctactgtcctttcagg	
16105	ttgtcctactgtcctttcaggtcca	
16106	tgtcctactgtcctttcaggtccag	
16107	gtcctactgtcctttcaggtccagg	
16108	tcctactgtcctttcaggtccaggc	
16109	cctactgtcctttcaggtccaggct	
16110	attgggctcctgctcaccaatcctc	
16111	ttgggctcctgctcaccaatcctcc	
16112	ctttctgcccttgtcctactgtcct	
16113	tttctgcccttgtcctactgtcctt	
16114	ttctgcccttgtcctactgtccttt	
16115	tctgcccttgtcctactgtcctttc	
16116	ctgcccttgtcctactgtcctttca	

SEQ ID NO:	sequence	DBAxnID
58653	cttgtggctggaggcctcaatgcct	AA080223
58654	ggaggcctcaatgcctgatgtttct	AA080223
58655	ggcctcaatgcctgatgtttctcct	AA080223
58656	attcggaacgaggcgtctctgctgc	AA016431
58657	ttcggaacgaggcgtctctgctgct	AA016431
58658	gatggcaacaacatcacggtcaaaa	AA016431
58659	tggcaacaacatcacggtcaaaacc	AA016431
58660	ggcaacaacatcacggtcaaaaccg	AA016431
58661	caacaacatcacggtcaaaaccgag	AA016431
58662	caacatcacggtcaaaaccgagagc	AA016431
58663	aacatcacggtcaaaaccgagagca	AA016431
58664	catcacggtcaaaaccgagagcaca	AA016431
58665	atcacggtcaaaaccgagagcacag	AA016431
58666	tgaaacgacagctgatggcagaaaa	AA016431
58667	gaaacgacagctgatggcagaaaaa	AA016431
58668	gaggcgtctctgctgcttttgtgct	AA016431
58669	aggcgtctctgctgcttttgtgctc	AA016431
58670	gcgtctctgctgcttttgtgctctc	AA016431
58671	tctctgctgcttttgtgctctccct	AA016431
58672	ctgtatcattacgtgtgatggcaac	AA016431
58673	tgtatcattacgtgtgatggcaaca	AA016431
58674	atcattacgtgtgatggcaacaaca	AA016431
58675	tgatggcaacaacatcacggtcaaa	AA016431
58676	tgtccagattcaccaggaggcctac	W18591
58677	gtccagattcaccaggaggcctacc	W18591
58678	atctataatggctgatcgcaagatc	W18591
58679	ctataatggctgatcgcaagatcaa	W18591
58680	tggctgatcgcaagatcaaggtttc	W18591
58681	atgatagcccagcagatggttccaa	W18591
58682	tccaaaagtccgtggagtccttgct	W18591
58683	gtccgtggagtccttgcttggttca	W18591
58684	tccgtggagtccttgcttggttcaa	W18591
58685	cgtggagtccttgcttggttcaaat	W18591
58686	agtccttgcttggttcaaatgccac	W18591
58687	cttggttcaaatgccactaggaatt	W18591
58688	ccagattcaccaggaggcctacctg	W18591
58689	agattcaccaggaggcctacctgac	W18591
58690	accaggaggcctacctgactgatga	W18591
58691	ccaggaggcctacctgactgatgaa	W18591
58692	ggaggcctacctgactgatgaaata	W18591
58693	gaggcctacctgactgatgaaatag	W18591
58694	cctacctgactgatgaaatagctgg	W18591
58695	tgaaatagctggtcgcgtcgagatc	W18591
58696	actgagatgctcaggcattgttcca	W18723
58697	gataattcgtcagcatcattttgga	W18723
58698	tcattttggacacacaattgatctc	W18723
58699	cattttggacacacaattgatctca	W18723
58700	attttggacacacaattgatctcat	W18723
58701	tggacacacaattgatctcatttaa	W18723
58702	gacacacaattgatctcatttaaga	W18723
58703	acacacaattgatctcatttaagaa	W18723
58704	cacacaattgatctcatttaagaag	W18723
58705	acacaattgatctcatttaagaagg	W18723
58706	cacaattgatctcatttaagaagga	W18723
58707	acaattgatctcatttaagaaggat	W18723
58708	ataattcgtcagcatcattttggac	W18723
58709	taattcgtcagcatcattttggaca	W18723
58710	aattcgtcagcatcattttggacac	W18723
58711	attcgtcagcatcattttggacaca	W18723
58712	ttcgtcagcatcattttggacacac	W18723
58713	cgtcagcatcattttggacacacaa	W18723
58714	tcagcatcattttggacacacaatt	W18723
58715	agcatcattttggacacacaattga	W18723
58716	gcatgctcccagcatttgtctaccc	X51396
58717	catttgtctacccaagtccacacca	X51396
58718	ctcatctgattggcccaacggttta	X51396
58719	tgattggcccaacggtttagtgcag	X51396
58720	ttgcacctttcgtagcttctttaat	X51396

SEQ ID NO	sequence	DBAxnID
101257	cactcgtttcttaggagacacaaag	AA162708
101258	agagagaaaccctacatgtgtgaaa	AA162708
101259	agagaaaccctacatgtgtgaaaag	AA162708
101260	gagaaaccctacatgtgtgaaaagt	AA162708
101261	gaaaccctacatgtgtgaaaagtgt	AA162708
101262	aaccctacatgtgtgaaaagtgtag	AA162708
101263	tcttcctttacatccctgaaaagtg	AA162708
101264	tcccgccttcaggaacatcagaaaa	AA162708
101265	cccgccttcaggaacatcagaaaat	AA162708
101266	ccgccttcaggaacatcagaaaatt	AA162708
101267	tgtgacaaagcctttctttatcact	AA162708
101268	gtgacaaagcctttctttatcactc	AA162708
101269	tgacaaagcctttctttatcactcg	AA162708
101270	tctttatcactcgtttcttaggaga	AA162708
101271	tttatcactcgtttcttaggagaca	AA162708
101272	acatactaggtgacacccttggagt	AA050733
101273	taggtgacacccttggagtcacttc	AA050733
101274	gcagcctactccttgcttcagggcc	AA050733
101275	ttgcttcagggcctgactgcaacgc	AA050733
101276	ctgactgcaacgccaaagcctatcc	AA050733
101277	gcaacgccaaagcctatcctatagc	AA050733
101278	ccaaagcctatcctatagcggcgcg	AA050733
101279	cctatcctatagcggcgcgccacag	AA050733
101280	ccatgaacaccgaaatgtatcagac	AA050733
101281	aaatgtatcagacccccatggaggt	AA050733
101282	tctatcagctgcacaatttctccat	AA050733
101283	agctgcacaatttctccatctcctt	AA050733
101284	acacccttggagtcacttctcttca	AA050733
101285	ttggagtcacttctcttcaactcca	AA050733
101286	tcacttctcttcaactccagcttag	AA050733
101287	ctcttcaactccagcttagaagtgc	AA050733
101288	aactccagcttagaagtgcctgcct	AA050733
101289	agcttagaagtgcctgcctggctca	AA050733
101290	tggctcagggtctgcactgcagcct	AA050733
101291	tgcactgcagcctactccttgcttc	AA050733
101292	aaagccctacagaccatgaaacaag	M16395
101293	cattaacctggtgaagcaaaagcct	M16395
101294	aaatgtgttgacgctttggtgtgag	M16395
101295	atgtgttgacgctttggtgtgagcc	M16395
101296	tgacgctttggtgtgagccttttgg	M16395
101297	gagccttttggcttaactgtaactg	M16395
101298	gccttttggcttaactgtaactgct	M16395
101299	aactgctagtactttaaccacatgg	M16395
101300	ctgctagtactttaaccacatggtg	M16395
101301	tagtactttaaccacatggtgaaga	M16395
101302	gtactttaaccacatggtgaagatg	M16395
101303	tttaaccacatggtgaagatgtcca	M16395
101304	agcaaaagcctgaactgacagagga	M16395
101305	aaagcctgaactgacagaggagcag	M16395
101306	agcctgaactgacagaggagcagct	M16395
101307	agtctgtttcacagaagagggtcca	M16395
101308	gtgatgctttgggcgtttaaacatc	M16395
101309	gcgtttaaacatctccagaaggaag	M16395
101310	ttaaacatctccagaaggaagagtg	M16395
101311	acatctccagaaggaagagtggaca	M16395
101312	tataagggttctcctttcacagaat	AA162240
101313	tttttatctggatttccaagactgg	AA162240
101314	atttccaagactggatggcttggta	AA162240
101315	ttccaagactggatggcttggtagc	AA162240
101316	tccaagactggatggcttggtagca	AA162240
101317	aagactggatggcttggtagcaagc	AA162240
101318	agactggatggcttggtagcaagca	AA162240
101319	agcaagcatgttgtcttttgggaag	AA162240
101320	caagcatgttgtcttttgggaagtg	AA162240
101321	aagcatgttgtcttttgggaagtga	AA162240
101322	agcatgttgtcttttgggaagtgaa	AA162240
101323	catgttgtcttttgggaagtgaaag	AA162240
101324	ttttatctggatttccaagactgga	AA162240

TABLE 1

SEQ ID NO	sequence	DBAxnID
16117	tgcccttgtcctactgtcctttcag	
16118	cgccgctgctcagccattgtacttt	W59140
16119	cgctgctcagccattgtactttgga	W59140
16120	tgagacacaagtcacttgtttggaa	W59140
16121	gacacaagtcacttgtttggaaaat	W59140
16122	agcttctgaaaactctgggatctca	W59140
16123	tgaaaactctgggatctcaacatgc	W59140
16124	aaactctgggatctcaacatgcacc	W59140
16125	tgggatctcaacatgcaccgttggg	W59140
16126	gatctcaacatgcaccgttgggctg	W59140
16127	gatcgatgctggcagtcggtatgag	W59140
16128	cgatgctggcagtcggtatgagaat	W59140
16129	tgctggcagtcggtatgagaatgaa	W59140
16130	ccgactcagaagtacacaggctgct	W59140
16131	tacacaggctgctccacaagttgtt	W59140
16132	acaggctgctccacaagttgttctg	W59140
16133	ggctgctccacaagttgttctgaat	W59140
16134	tgctccacaagttgttctgaatgtt	W59140
16135	agttgttctgaatgttcctgagaca	W59140
16136	tgttcctgagacacaagtcacttgt	W59140
16137	tcctgagacacaagtcacttgtttg	W59140
16138	cacgcagttcgcatgatccagcgtg	U22948
16139	cagaaaagcatcatcattcacacct	U22948
16140	ctgagacatgctttccgcagcatgt	U22948
16141	ttccgcagcatgttcccttcatgtg	U22948
16142	agcatgttcccttcatgtgaaggca	U22948
16143	gaaggcactgcgcagcctctagata	U22948
16144	actgcgcagcctctagataacagca	U22948
16145	gactgcctgcacaagcacgccaata	U22948
16146	aagcacgccaataacacagccagca	U22948
16147	agctgcatcaagagcactgttaaga	U22948
16148	tccacagacacgtctgccgaggctc	U22948
16149	gctgctgcttttgtggctgcccaga	U22948
16150	atcattcacacctcagaagatggca	U22948
16151	atcctggtggtgttgatcatctgct	U22948
16152	atctgctggggccctctgcttgcga	U22948
16153	cttgcgatcatggtgtatgatgtct	U22948
16154	gtgtttgccttctgtagtatgctct	U22948
16155	gccttctgtagtatgctctgcctgc	U22948
16156	atgctctgcctgctgaactccaccg	U22948
16157	atctatgctctgaggagcaaggacc	U22948
16158	aaagtcacgctgtctactgataaaa	AA118121
16159	agtcacgctgtctactgataaaaac	AA118121
16160	tggaaggccacgaactgcatgagga	AA118121
16161	gaaggccacgaactgcatgaggaag	AA118121
16162	gccacgaactgcatgaggaagacat	AA118121
16163	ggaagacattcgcctcatgtacacc	AA118121
16164	gacattcgcctcatgtacaccttg	AA118121
16165	cattcgcctcatgtacacctttgac	AA118121
16166	ttcgcctcatgtacacctttgacca	AA118121
16167	cgcctcatgtacacctttgaccagg	AA118121
16168	tcatgtacacctttgaccaggccac	AA118121
16169	atgtacacctttgaccaggccacgg	AA118121
16170	gctgaaccagatcacatggtccttg	AA118121
16171	tgaaccagatcacatggtccttggg	AA118121
16172	atcacatggtccttgggaagcgcct	AA118121
16173	gggccttcaaagcggtgatgatggc	AA118121
16174	gccttcaaagcggtgatgatggcca	AA118121
16175	cttcaaagcggtgatgatggccata	AA118121
16176	atggccataaagcggctgagcaatg	AA118121
16177	ccataaagcggctgagcaatgagga	AA118121
16178	caagcaagttccaaagccagcctgg	X16151
16179	aaagccagcctggaacatcagagcc	X16151
16180	ttgggctcttagcttagtctgttgt	X16151
16181	cttagtctgttgtttcatgcaaaca	X16151
16182	tttcatgcaaacaccgttgtaacca	X16151
16183	gtaaccaaaagcttctgcactttgc	X16151
16184	cttctgttgttcctgtacaagaaat	X16151

SEQ ID NO	sequence	DBAxnID
58721	gcttctttgatcagaaccagaaaaa	X51396
58722	gaagagctctcagcaagtgtacagc	X51396
58723	gtacagcatctgccttcctttgtct	X51396
58724	ccttcctttgtcttgcattggctat	X51396
58725	ttttccattaatttcaacacatggg	X51396
58726	attaatttcaacacatgggaacaca	X51396
58727	ttcaacacatgggaacacatgtaca	X51396
58728	caagtccacaccaagtcaagctgca	X51396
58729	aagtcaagctgcatgcagcaacacc	X51396
58730	agctgcatgcagcaacacccaagtc	X51396
58731	cattttgccttaggaagtgactgaa	X51396
58732	atgtacaaagacacctgatgcactt	X51396
58733	tttttaaaccatccatgtaggattg	X51396
58734	gtagatactccagggaaaggagcgt	X51396
58735	aggtaccagaagctcatctgattgg	X51396
58736	accatactatgtggctccggaagtc	X76850
58737	cctgggcccggagaagtatgacaag	X76850
58738	ctggatcatgcaatctacgaaggtc	X76850
58739	catgcaatctacgaaggtccctcag	X76850
58740	gcaatctacgaaggtccctcagact	X76850
58741	actgcacaccagccgtgtcctgaag	X76850
58742	gatgaccagtgccttggccacgatg	X76850
58743	tgccttggccacgatgcgtgttgac	X76850
58744	cttggccacgatgcgtgttgactat	X76850
58745	agaagacgcatccaaccctctgctt	X76850
58746	caaccctctgcttctcaagaggcgg	X76850
58747	tctgcttctcaagaggcggaagaaa	X76850
58748	caagtcctgtgacatgtggtccttg	X76850
58749	gtggtccttgggtgtcatcatgtat	X76850
58750	catctctccgggcatgaagactcgt	X76850
58751	ctctccgggcatgaagactcgtatt	X76850
58752	tattcgaatgggccagtatgaattt	X76850
58753	gatgcttatccggaatctgctaaaa	X76850
58754	aatgaccatcacagaattcatgaac	X76850
58755	gaccatcacagaattcatgaaccac	X76850
58756	gtcattctcggagtgactgccgggc	X67735
58757	cggtcatcatcttcatagccatcct	X67735
58758	ttatcatattcctcatctttgccat	X67735
58759	tattcctcatctttgccatgcccat	X67735
58760	tcctctacttgctgtactacgagta	X67735
58761	acttgctgtactacgagtactggtc	X67735
58762	cagcctttgggaacctgcataacat	X67735
58763	ataacatctccttgcttttctccac	X67735
58764	tctccttgcttttctccaccatcaa	X67735
58765	tcctgaccagggctttcaaagatga	X67735
58766	gcaacggcaacactgtatccattga	X67735
58767	ttttagcttgtgcttggaatgcaat	X67735
58768	tcatcttcatagccatcctcagctt	X67735
58769	tcagcttcttggtcttcactccgct	X67735
58770	tcttggtcttcactccgctcatgtt	X67735
58771	tcttcactccgctcatgttagtgtc	X67735
58772	tagtgtccagctccatcttggtggt	X67735
58773	attcttcgaagctgtacattgtcat	X67735
58774	tgtacattgtcatcatggtcaccat	X67735
58775	tcaccattatcatattcctcatctt	X67735
58776	ccctggaccttctgaggaagctgaa	W30177
58777	cctggaccttctgaggaagctgaac	W30177
58778	gagtccgcaagcactgttcagacaa	W30177
58779	cgcaagcactgttcagacaaggaag	W30177
58780	gcaagcactgttcagacaaggaagt	W30177
58781	caagcactgttcagacaaggaagtg	W30177
58782	aagcactgttcagacaaggaagtgg	W30177
58783	agcactgttcagacaaggaagtggt	W30177
58784	tggtgtccttggccaaagtcctcat	W30177
58785	gtgtccttggccaaagtcctcatta	W30177
58786	tgtccttggccaaagtcctcattaa	W30177
58787	tggccaaagtcctcattaaaaactg	W30177
58788	ctggaccttctgaggaagctgaaca	W30177

SEQ ID NO	sequence	DBAxnID
101325	tttatctggatttccaagactggat	AA162240
101326	ttatctggatttccaagactggatg	AA162240
101327	tatctggatttccaagactggatgg	AA162240
101328	tctggatttccaagactggatggct	AA162240
101329	tggatttccaagactggatggcttg	AA162240
101330	ggatttccaagactggatggcttgg	AA162240
101331	gatttccaagactggatggcttggt	AA162240
101332	gagatcatgaattccccagagactg	AA162290
101333	agatcatgaattccccagagactgt	AA162290
101334	catcggatacactagcgagatgaag	AA162290
101335	atcggatacactagcgagatgaagc	AA162290
101336	aaccggacttgcaacctttgatatg	AA162290
101337	accggacttgcaacctttgatatga	AA162290
101338	ccggacttgcaacctttgatatgac	AA162290
101339	ggacttgcaacctttgatatgactc	AA162290
101340	gacttgcaacctttgatatgactca	AA162290
101341	acttgcaacctttgatatgactcat	AA162290
101342	ttgcaacctttgatatgactcattc	AA162290
101343	tgcaacctttgatatgactcattct	AA162290
101344	gatcatgaattccccagagactgtc	AA162290
101345	tcatgaattccccagagactgtctg	AA162290
101346	catgaattccccagagactgtctgc	AA162290
101347	gagactgtctgctctcttgcaagaa	AA162290
101348	gactgtctgctctcttgcaagaaca	AA162290
101349	actgtctgctctcttgcaagaacag	AA162290
101350	ctgtctgctctcttgcaagaacagc	AA162290
101351	gacatcggatacactagcgagatga	AA162290
101352	attatagttaccagcttcagagcac	AA162929
101353	atagttaccagcttcagagcactga	AA162929
101354	tcatccgtatcgacaaataattgac	AA162929
101355	aattgacctgtgatcacgctgacat	AA162929
101356	cctgtgatcacgctgacatactcca	AA162929
101357	atcacgctgacatactccaggcagt	AA162929
101358	ctgacatactccaggcagtgatccc	AA162929
101359	acatactccaggcagtgatccctca	AA162929
101360	cagtgatccctcatgccgatgggaa	AA162929
101361	tgatccctcatgccgatgggaatgc	AA162929
101362	ctcatgccgatgggaatgccaacgg	AA162929
101363	atgccaacggcattatgggcaatgg	AA162929
101364	agcttcagagcactgaacattcccc	AA162929
101365	gcactgaacattcccctatttgtgc	AA162929
101366	ttattaagcgtggcaaggataatct	AA162929
101367	atcttcatattcgactgaagatcca	AA162929
101368	atattcgactgaagatccacccttt	AA162929
101369	gactgaagatccacccttacatgt	AA162929
101370	tgaagatccacccttacatgtcat	AA162929
101371	tacatgtcatccgtatcgacaaata	AA162929
101372	agcagatccagaaactggaggctag	AA162315
101373	atccagaaactggaggctagggtga	AA162315
101374	cttcgtaagcacgagcgcagagtga	AA162315
101375	ttcgtaagcacgagcgcagagtgaa	AA162315
101376	cgtaagcacgagcgcagagtgaagg	AA162315
101377	gtaagcacgagcgcagagtgaagga	AA162315
101378	tcacctaccagaccgaggaggaccg	AA162315
101379	aggaccgcaagaacgtgctgaggct	AA162315
101380	ggaccgcaagaacgtgctgaggctg	AA162315
101381	agaacgtgctgaggctgcaggactt	AA162315
101382	gaacgtgctgaggctgcaggacttg	AA162315
101383	aacgtgctgaggctgcaggacttgg	AA162315
101384	aacagaagcgcaacatcgaagccgt	AA162315
101385	aagcgcaacatcgaagccgtcaagg	AA162315
101386	agcgcaacatcgaagccgtcaaggg	AA162315
101387	gcgcaacatcgaagccgtcaagggt	AA162315
101388	cgcaacatcgaagccgtcaagggtc	AA162315
101389	caacatcgaagccgtcaagggtctt	AA162315
101390	acatcgaagccgtcaagggtcttcg	AA162315
101391	tcttcgtaagcacgagcgcagagtg	AA162315
101392	atagatcccaccttatacctgagcc	AA162342

TABLE 1

SEQ ID NO	sequence	DBAxnID
16185	ttgttcctgtacaagaaatgcaacg	X16151
16186	tgcaacggccactgcattttaatga	X16151
16187	ggccactgcattttaatgattgtta	X16151
16188	gtaacagtctatatcactataccct	X16151
16189	gtctatatcactatacccttttagt	X16151
16190	gaacatcagagccacaagtttcaca	X16151
16191	cacaagtttcacagccacaaggaca	X16151
16192	tttcacagccacaaggacaagctag	X16151
16193	ttccgaatttctcatgaattagaga	X16151
16194	agttcatcttctgaggtcaactaaa	X16151
16195	tcttctgaggtcaactaaagaagag	X16151
16196	actaactgctcatttctcagttcag	X16151
16197	tgctcatttctcagttcagtggata	X16151
16198	gatatccttcccttgaagctgcttg	W82033
16199	cttcccttgaagctgcttgtgcccc	W82033
16200	gccatctgcaatcatgtgggcctgt	W82033
16201	atctgcaatcatgtgggcctgtgcc	W82033
16202	tgcaatcatgtgggcctgtgccacg	W82033
16203	tgccacgtgggcaggctaagccaga	W82033
16204	aacagaatccagggatgccggatgc	W82033
16205	agaatccagggatgccggatgccgt	W82033
16206	tgccggatgccgttccaaacctctg	W82033
16207	ttccaaacctctgctggacaagctg	W82033
16208	ggacaagctggtcctccctgtgctg	W82033
16209	tgtgctgccaggagccctcttggca	W82033
16210	ttgaagctgcttgtgccccggtgtc	W82033
16211	cggtgtcgccaagtgcttgatgtct	W82033
16212	tgtcgccaagtgcttgatgtctacc	W82033
16213	gttattgactacttccagagccaga	W82033
16214	gactacttccagagccagattaacc	W82033
16215	attaaccccaaagccatctgcaatc	W82033
16216	aaccccaaagccatctgcaatcatg	W82033
16217	cccaaagccatctgcaatcatgtgg	W82033
16218	ctccgagtactaccctagagctata	U23789
16219	cgagtactaccctagagctataaag	U23789
16220	ttgggccagacgactaacagcatgt	U23789
16221	acgactaacagcatgtgatggctca	U23789
16222	tgatggctcaggctgaagaactggg	U23789
16223	gctgttagtccccactgttatcttg	U23789
16224	ccccactgttatcttggtgcctggt	U23789
16225	tcatattgtaacccctgtgaacaac	U23789
16226	aatataaccactccatgcaggccca	U23789
16227	ccatgcaggcccaactgtcgagggt	U23789
16228	tgcaggcccaactgtcgagggtttt	U23789
16229	taatacatggtttcaacttggattt	U23789
16230	aggcttgtctctatactgtctatcc	U23789
16231	cttgtctctatactgtctatccctg	U23789
16232	tctatactgtctatccctgaacact	U23789
16233	actgtttacacattttgcacttggg	U23789
16234	gtcatccctctgaggtttctcaggt	U23789
16235	tttctcaggtggcaatgtaactcat	U23789
16236	caatgtaactcatttctttgttcct	U23789
16237	gctttgggccagacgactaacagca	U23789
16238	agggacgctgtcattgcaagaggtg	W59184
16239	gagccgcttcagcacgtactgatgg	W59184
16240	gcaaagtgcatacgcgcacgcagat	W59184
16241	aaagtgcatacgcgcacgcagatca	W59184
16242	agtgcatacgcgcacgcagatcatg	W59184
16243	gtgcatacgcgcacgcagatcatga	W59184
16244	gcatacgcgcacgcagatcatgaat	W59184
16245	catacgcgcacgcagatcatgaata	W59184
16246	atacgcgcacgcagatcatgaataa	W59184
16247	tacgcgcacgcagatcatgaataag	W59184
16248	cgcgcacgcagatcatgaataagat	W59184
16249	agatttcatgggattgccttgatgc	W59184
16250	agccgcttcagcacgtactgatggt	W59184
16251	gccgcttcagcacgtactgatggta	W59184
16252	ccgcttcagcacgtactgatggtag	W59184

SEQ ID NO:	sequence	DBAxnID
58789	tggaccttctgaggaagctgaacag	W30177
58790	ggaccttctgaggaagctgaacagt	W30177
58791	ggcagtcaacggagtccgcaagcac	W30177
58792	gcagtcaacggagtccgcaagcact	W30177
58793	cagtcaacggagtccgcaagcactg	W30177
58794	agtcaacggagtccgcaagcactgt	W30177
58795	aacggagtccgcaagcactgttcag	W30177
58796	tcggtgctctacacggtaccggcca	W35058
58797	acggtaccggccaccatcgtcatcg	W35058
58798	cgcccgacttcacagtctacatgat	W35058
58799	acatgatcaaatacctcatgacgct	W35058
58800	atgatcaaatacctcatgacgctca	W35058
58801	gatcaaatacctcatgacgctcatc	W35058
58802	tcaaatacctcatgacgctcatcgt	W35058
58803	atacctcatgacgctcatcgtgggc	W35058
58804	acctcatgacgctcatcgtgggcat	W35058
58805	ctcatgacgctcatcgtgggcatca	W35058
58806	catgacgctcatcgtgggcatcacg	W35058
58807	acgctcatcgtgggcatcacgtcgg	W35058
58808	gtcatcgcctgctacttctatgagc	W35058
58809	catcgcctgctacttctatgagcag	W35058
58810	actgggagcgctcctgggtaagcca	W35058
58811	agcgctcctgggtaagccagcactg	W35058
58812	cgctcctgggtaagccagcactgca	W35058
58813	agccagcactgcaagagcctagcca	W35058
58814	ccagcactgcaagagcctagccatc	W35058
58815	gcatgtcgcccgacttcacagtcta	W35058
58816	tattgtggtcttccagtattcagat	W42234
58817	ggtcttccagtattcagatggaaaa	W42234
58818	cacggtgcggctctatgagtggacc	W42234
58819	ggagcttcgcactgagtgtaatcac	W42234
58820	gcttcgcactgagtgtaatcactac	W42234
58821	gtgtaatcactacaacaacatcatg	W42234
58822	taatcactacaacaacatcatggcc	W42234
58823	ctacaacaacatcatggccctgtac	W42234
58824	caacaacatcatggccctgtacctg	W42234
58825	caacatcatggccctgtacctgaag	W42234
58826	catggccctgtacctgaagaccaag	W42234
58827	gggcgacctcatgcgctcagtgctg	W42234
58828	actacagactgtggctgaaaaggaa	W42234
58829	cctcatgcgctcagtgctgctgctt	W42234
58830	tgtgtactctatggtggagtttaat	W42234
58831	gtactctatggtggagtttaatggg	W42234
58832	gaagctgcttgccagcatcaatagc	W42234
58833	gctgcttgccagcatcaatagcacg	W42234
58834	tgccagcatcaatagcacggtgcgg	W42234
58835	cagcatcaatagcacggtgcggctc	W42234
58836	catcaatagcacggtgcggctctat	W42234
58837	caagtccatactctgctttctcccg	X93038
58838	catactctgctttctcccggaacca	X93038
58839	gcctactttggatgccaatgaccct	X93038
58840	tgatcctttctactatgattggtac	X93038
58841	ccgagtcggcgggctcatttgtgca	X93038
58842	ttgtgcagggattctctgtgccctg	X93038
58843	tctctgtgccctgggcattatagtc	X93038
58844	accaggctcagctcacaactgctga	X93038
58845	tggctctgaaggtgggcttgaactc	X93038
58846	tgggcttgaactccgagctggctgt	X93038
58847	tgaactccgagctggctgttctcct	X93038
58848	acccctcgtggtagcaggctctttg	X93038
58849	acctctcagcctgttgagctactca	X93038
58850	cagcctgttgagctactcaggtcaa	X93038
58851	gttgagctactcaggtcaaggcttt	X93038
58852	ctactcaggtcaaggctttgacatg	X93038
58853	ggttgttctgagcctgttggtcctt	X93038
58854	cctgttggtccttctagcaggcctg	X93038
58855	ggtccttctagcaggcctgcctact	X93038
58856	aggcctgcctactttggatgccaat	X93038

SEQ ID NO:	sequence	DBAxnID
101393	gatcccaccttatacctgagccgca	AA162342
101394	aaacgcttcgactatcaggaccagc	AA162342
101395	cgcttcgactatcaggaccagcgtt	AA162342
101396	ttcgactatcaggaccagcgtttcc	AA162342
101397	gactatcaggaccagcgtttccaga	AA162342
101398	tatcaggaccagcgtttccagagcc	AA162342
101399	caggaccagcgtttccagagcctca	AA162342
101400	gaccagcgtttccagagcctcatga	AA162342
101401	cagcgtttccagagcctcatgagga	AA162342
101402	cgtttccagagcctcatgaggatga	AA162342
101403	ttccagagcctcatgaggatgatca	AA162342
101404	accttatacctgagccgcactgtgt	AA162342
101405	ttatacctgagccgcactgtgtcca	AA162342
101406	tacctgagccgcactgtgtccaacg	AA162342
101407	cgcactgtgtccaacgtcatctgtt	AA162342
101408	actgtgtccaacgtcatctgttccg	AA162342
101409	tccaacgtcatctgttccgtggtct	AA162342
101410	gtcatctgttccgtggtcttcggaa	AA162342
101411	ttcggaaaacgcttcgactatcagg	AA162342
101412	gccagcgcatcagcacgtacttatc	AA162379
101413	gcatcagcacgtacttatctgtcct	AA162379
101414	gagccctgtttgtccacatctgcct	AA162379
101415	ccctgtttgtccacatctgcctggg	AA162379
101416	ttgtccacatctgcctgggctggaa	AA162379
101417	acatctgcctgggctggaacttcta	AA162379
101418	tctgcctgggctggaacttctacct	AA162379
101419	ggaacttctacctgtccaccatcct	AA162379
101420	tcacgctcgccattacggccctgta	AA162379
101421	tcgccattacggccctgtacaccat	AA162379
101422	ccattacggccctgtacaccattgc	AA162379
101423	ttacggccctgtacaccattgcagg	AA162379
101424	tcagcacgtacttatctgtcctgtc	AA162379
101425	tatctgtcctgtcccagatgctgtc	AA162379
101426	ctgtcctgtcccagatgctgtctgt	AA162379
101427	tgtctgtcttcaccaagatatcgat	AA162379
101428	tatcgattgacctgtacgcaggagc	AA162379
101429	ttgacctgtacgcaggagccctgtt	AA162379
101430	acctgtacgcaggagccctgtttgt	AA162379
101431	tgtacgcaggagccctgtttgtcca	AA162379
101432	agcagctgtcgcgagagctcagcac	X62600
101433	cacctgcacctgcaccgaggggaca	X62600
101434	ctacgcaacacacgtgtaactgtct	X62600
101435	gcaacacacgtgtaactgtctagcc	X62600
101436	tagccgggccctgagtaatcacctt	X62600
101437	ggccctgagtaatcaccttaaagat	X62600
101438	ccctgagtaatcaccttaaagatgt	X62600
101439	gagtaatcaccttaaagatgttcct	X62600
101440	gtaatcaccttaaagatgttcctgc	X62600
101441	tcaccttaaagatgttcctgcgggg	X62600
101442	taaagatgttcctgcggggttgttg	X62600
101443	aagatgttcctgcggggttgttgat	X62600
101444	tgcacctgcaccgaggggacaccgc	X62600
101445	cctgcacagcgcaccgggtttcggg	X62600
101446	tgatgcaatccggatcaaacgtggc	X62600
101447	atgcaatccggatcaaacgtggctg	X62600
101448	gcaatccggatcaaacgtggctgag	X62600
101449	ctgagcgcgtgtggacacgggacta	X62600
101450	gggactacgcaacacacgtgtaact	X62600
101451	gactacgcaacacacgtgtaactgt	X62600
101452	tgacatggagtccaacgggaaatgt	AA162075
101453	tgtatttccaaatctcgggggcctg	AA162075
101454	ggcccaacagacaggccaatgtgtg	AA162075
101455	gcccaacagacaggccaatgtgtgt	AA162075
101456	cccaacagacaggccaatgtgtgtt	AA162075
101457	aacagacaggccaatgtgtgttggg	AA162075
101458	acagacaggccaatgtgtgttgggg	AA162075
101459	gacaggccaatgtgtgttggggaca	AA162075
101460	acaggccaatgtgtgttggggacac	AA162075

TABLE 1

SEQ ID NO	sequence	DBAxnID
16253	gcttcagcacgtactgatggtagag	W59184
16254	cttcagcacgtactgatggtagagt	W59184
16255	ttcagcacgtactgatggtagagta	W59184
16256	tcagcacgtactgatggtagagtac	W59184
16257	agcacgtactgatggtagagtacgg	W59184
16258	gcagacccgagatccacgtgacaca	U03856
16259	tccacgtgacacagacagtgacggg	U03856
16260	aacacaagctgccctggaccttcgt	U03856
16261	caccctacatcagcttcttagact	U03856
16262	atcccagacaggcactgggcaaaca	U03856
16263	taagcactgaggtccgtggtcctttt	U03856
16264	ctctccctaaacatgccactcttgt	U03856
16265	ctaaacatgccactcttgtgtcccg	U03856
16266	cggcaaaagccactggcagtggctc	U03856
16267	aagccactggcagtggctcccaacc	U03856
16268	gacttggcctgccctttggaactgt	U03856
16269	gcctgccctttggaactgtgcccttt	U03856
16270	tcagggtcctgtgggctcaggcagc	U03856
16271	cctgcatgccttttctggtagtgct	U03856
16272	tgcctttctggtagtgctgcctgg	U03856
16273	ttctggtagtgctgcctgggatgac	U03856
16274	tagtgctgcctgggatgacagcgct	U03856
16275	ccgggtcactgcactataggagtca	U03856
16276	cactgcactataggagtcagcttgt	U03856
16277	cttttcccatgcatgttatggtgaa	U03856
16278	ggcccccaaagtgctactcctatct	W59236
16279	cccccaaagtgctactcctatctgg	W59236
16280	gcgacgacaccgaggctcgcaagcg	W59236
16281	cgacgacaccgaggctcgcaagcgg	W59236
16282	acgacaccgaggctcgcaagcggca	W59236
16283	gacaccgaggctcgcaagcggcacg	W59236
16284	acaccgaggctcgcaagcggcacgc	W59236
16285	gcacctgagcccggagagaaagcgc	W59236
16286	cacctgagcccggagagaaagcgct	W59236
16287	acctgagcccggagagaaagcgctg	W59236
16288	aagagaaccagaaactccagctaga	W59236
16289	agagaaccagaaactccagctagaa	W59236
16290	ccccaaagtgctactcctatctggt	W59236
16291	gagaaccagaaactccagctagaaa	W59236
16292	cccaaagtgctactcctatctggtc	W59236
16293	ccaaagtgctactcctatctggtca	W59236
16294	aaagtgctactcctatctggtcagc	W59236
16295	aagtgctactcctatctggtcagcc	W59236
16296	agtgctactcctatctggtcagccc	W59236
16297	gtgctactcctatctggtcagcccg	W59236
16298	aggcgacgacaccgaggctcgcaag	W59236
16299	catctttagagctggcctcatcaca	U13053
16300	ctttagagctggcctcatcacagtt	U13053
16301	gtcaaatcatcttctatgtcttgct	U13053
16302	aaatctcaactatattgataacctg	U13053
16303	tattgataacctgcagcgcaaaatt	U13053
16304	ccatcctttgggttgcttcttgtat	U13053
16305	tttgggttgcttcttgtatgccaca	U13053
16306	gggttgcttcttgtatgccacagct	U13053
16307	ttgcttcttgtatgccacagctgaa	U13053
16308	cttgtatgccacagctgaattatat	U13053
16309	tgagcatatttcttactgagaaaat	U13053
16310	tatttcttactgagaaaatgtctgt	U13053
16311	tagagctggcctcatcacagttgtg	U13053
16312	cctcatcacagttgtgactatttct	U13053
16313	tgtgactatttctgctccagtgaag	U13053
16314	gactatttctgctccagtgaagaga	U13053
16315	ttacttatgtgtcgtagaagtgttt	U13053
16316	aaattctacttagtcaaatcatctt	U13053
16317	tacttagtcaaatcatcttctatgt	U13053
16318	ttagtcaaatcatcttctatgtctt	U13053
16319	cgtattggccgaaccgcgcagcacc	W59247
16320	attggccgaaccgcgcagcaccaac	W59247

SEQ ID NO	sequence	DBAxnID
58857	atgtgcaacatgcaacaacttgctt	W40593
58858	gtgcaacatgcaacaacttgcttgc	W40593
58859	aatggcttggtccaattcttaagct	W40593
58860	tggcttggtccaattcttaagcttg	W40593
58861	ttggtccaattcttaagcttgacag	W40593
58862	ggtccaattcttaagcttgacagtt	W40593
58863	tccaattcttaagcttgacagttca	W40593
58864	gcttgacagttcaagcccagttaga	W40593
58865	gacagttcaagcccagttagactct	W40593
58866	cagttcaagcccagttagactcttg	W40593
58867	tcaagcccagttagactcttgacaa	W40593
58868	actcttgacaagggtttcatgttgt	W40593
58869	gcaacatgcaacaacttgcttgctt	W40593
58870	tgcaacaacttgcttgcttgacttg	W40593
58871	caacaacttgcttgcttgacttggt	W40593
58872	acaacttgcttgcttgacttggtcc	W40593
58873	cttgcttgcttgacttggtccctgg	W40593
58874	gttttgccaatggcttggtccaatt	W40593
58875	tgccaatggcttggtccaattctta	W40593
58876	ccaatggcttggtccaattcttaag	W40593
58877	ataccttccgtgtggagttcctgat	W44222
58878	cttccgtgtggagttcctgatggtt	W44222
58879	ctacctgagagtccgtggccatcct	W44222
58880	acctgagagtccgtggccatccttc	W44222
58881	gaccatcatcatgcactacctctgc	W44222
58882	ccatcatcatgcactacctctgctt	W44222
58883	atcatcatgcactacctctgcttcc	W44222
58884	catcatgcactacctctgcttcctg	W44222
58885	tcatgcactacctctgcttcctggg	W44222
58886	tctcattgctgtagtggctggtgtc	W44222
58887	tcattgctgtagtggctggtgtcgt	W44222
58888	attgctgtagtggctggtgtcgtct	W44222
58889	tccgtgtggagttcctgatggttcc	W44222
58890	gtagtggctggtgtcgtctagatga	W44222
58891	gagttcctgatggttcctgtatgag	W44222
58892	gttcctgatggttcctgtatgaggc	W44222
58893	tggaccttctccatctacctgagag	W44222
58894	ttctccatctacctgagagtccgtg	W44222
58895	ctccatctacctgagagtccgtggc	W44222
58896	ccatctacctgagagtccgtggcca	W44222
58897	atctacctgagagtccgtggccatc	W44222
58898	gcccgttttacgctgtcctgaagct	X70854
58899	tttacgctgtcctgaagctggagat	X70854
58900	tggtttgtatggccacgtgcattag	X70854
58901	gtatggccacgtgcattaggctgag	X70854
58902	tcacttaagtccagctggtgtactg	X70854
58903	tttaaacatggctcagccaggtggt	X70854
58904	tccctttttctacctgtgagctaggc	X70854
58905	ttctacctgtgagctaggcattgct	X70854
58906	ccagttctcactgagtctgcatgag	X70854
58907	ctcactgagtctgcatgaggattgg	X70854
58908	aagttgatggctgctgtagagtggc	X70854
58909	atggctgctgtagagtggcgcataa	X70854
58910	accggaacgtcgtcaatgtacacat	X70854
58911	acgtcgtcaatgtacacatcttcgt	X70854
58912	tacacatcttcgtctccgagtactg	X70854
58913	tcttcgtctccgagtactggttctg	X70854
58914	tctccgagtactggttctgagggcc	X70854
58915	gcccttgctgccagtgacagccagg	X70854
58916	gctgccagtgacagccaggtgcctg	X70854
58917	cgggcctcccttgatgtttcatatt	X70854
58918	ccgtctctctatcgtcgctctaggc	W42399
58919	acgggcaacccaaggcctcaatatg	W42399
58920	gcgcagaacctactgcagtgaacgg	W42399
58921	gcagaacctactgcagtgaacggct	W42399
58922	aacctactgcagtgaacggctgtgt	W42399
58923	gctgtgtgaccggacactttacttc	W42399
58924	tgtgtgaccggacactttacttcag	W42399

SEQ ID NO	sequence	DBAxnID
101461	caggccaatgtgtgttggggacacc	AA162075
101462	aggccaatgtgtgttggggacacca	AA162075
101463	tatttccaaatctcgggggcctgtg	AA162075
101464	cctgtgtggcccaacagacaggcca	AA162075
101465	ctgtgtggcccaacagacaggccaa	AA162075
101466	tgtgtggcccaacagacaggccaat	AA162075
101467	gtgtggcccaacagacaggccaatg	AA162075
101468	tgtggcccaacagacaggccaatgt	AA162075
101469	gtggcccaacagacaggccaatgtg	AA162075
101470	tggcccaacagacaggccaatgtgt	AA162075
101471	ggccaagcaactggcacaaatcgag	AA163007
101472	gcaactggcacaaatcgagacagac	AA163007
101473	tgaatatctcataaccctcctggtc	AA163007
101474	atatctcataaccctcctggtcatc	AA163007
101475	cctggtcatcgtccccaagtcaagc	AA163007
101476	ccccaagtcaagctttgcacagtgg	AA163007
101477	aagctttgcacagtggcagaagaca	AA163007
101478	ctttgcacagtggcagaagacatat	AA163007
101479	gacatatgagtccctatcggacatg	AA163007
101480	atatgagtccctatcggacatggtg	AA163007
101481	cctatcggacatggtggtccctcgg	AA163007
101482	atcggacatggtggtccctcggtca	AA163007
101483	gacagacctgaagtcccggacagcc	AA163007
101484	gtcaaccaaattgatcgccgaggac	AA163007
101485	gacagccgcctacagcgttctgaag	AA163007
101486	agccgcctacagcgttctgaaggcc	AA163007
101487	ggccaacctggagaacttggagaag	AA163007
101488	gagatccacggggaacctcttcact	AA163007
101489	gaacctcttcactcggacactgagc	AA163007
101490	cctcttcactcggacactgagcgat	AA163007
101491	agacttcgtacttgattctgaatat	AA163007
101492	cctggtgcaaagcctgggttgaaca	AA163021
101493	ttgaacacgacggcgtcacgtcaag	AA163021
101494	ggaaccaatgaccacgccactcata	AA163021
101495	aaccaatgaccacgccactcataca	AA163021
101496	actcatacacgtgctcaccaagacg	AA163021
101497	ctgagactctcaaagtcagtgctga	AA163021
101498	gactctcaaagtcagtgctgagcgg	AA163021
101499	ctctcaaagtcagtgctgagcggca	AA163021
101500	acttgagacactcaccgtggtcctc	AA163021
101501	gagacactcaccgtggtcctcatgt	AA163021
101502	cactcaccgtggtcctcatgtactc	AA163021
101503	tcctcatgtactcgccatacagtca	AA163021
101504	gaacacgacggcgtcacgtcaaggg	AA163021
101505	cacgtcaagggtacttctcacttca	AA163021
101506	ctgacgcagacaccctctacaaagc	AA163021
101507	gacaccctctacaaagccatgaacg	AA163021
101508	caccctctacaaagccatgaacggg	AA163021
101509	ccctctacaaagccatgaacgggat	AA163021
101510	ctacaaagccatgaacgggattgga	AA163021
101511	ttggaaccaatgaccacgccactca	AA163021
101512	aggtctgcggcacaggaacagaaca	AA163065
101513	cagaacatcatcaattacaagagca	AA163065
101514	ctgctgcaggagagcctagtctttg	AA163065
101515	agcctagtctttgacaacaagcaca	AA163065
101516	ctagtctttgacaacaagcacacag	AA163065
101517	gtctttgacaacaagcacacagtct	AA163065
101518	tttgacaacaagcacacagtctaca	AA163065
101519	gacaacaagcacacagtctacagca	AA163065
101520	aagcacacagtctacagcatggagc	AA163065
101521	cacacagtctacagcatggagcaca	AA163065
101522	acagtctacagcatggagcacattc	AA163065
101523	gtctacagcatggagcacattcgtg	AA163065
101524	atcaattacaagagcaacatcgacc	AA163065
101525	aattacaagagcaacatcgaccggc	AA163065
101526	tacaagagcaacatcgaccggctgg	AA163065
101527	aagagcaacatcgaccggctggagg	AA163065
101528	ggtgaccaccagctgctgcaggaga	AA163065

TABLE 1

SEQ ID NO	sequence	DBAxnID
16321	taccccgggcaacctgaagcaggct	W59247
16322	caacctgaagcaggctagagagctg	W59247
16323	aaagttgatgcagcttgtggaccac	W59247
16324	ccggactacttcttcagccaacaat	W59247
16325	tacttcttcagccaacaatcccaac	W59247
16326	ttcttcagccaacaatcccaacctg	W59247
16327	ttcagccaacaatcccaacctgatg	W59247
16328	agccaacaatcccaacctgatgtat	W59247
16329	caacaatcccaacctgatgtatcag	W59247
16330	caatcccaacctgatgtatcaggat	W59247
16331	ggccgaaccgcgcagcaccaacaag	W59247
16332	cgaaccgcgcagcaccaacaagggc	W59247
16333	accgcgcagcaccaacaagggcact	W59247
16334	gcgcagcaccaacaagggcactgcc	W59247
16335	cagcaccaacaagggcactgcctat	W59247
16336	caccaacaagggcactgcctatact	W59247
16337	caacaagggcactgcctatactttc	W59247
16338	caagggcactgcctatactttcttt	W59247
16339	actacaattacaatggcttacgtga	AA059550
16340	attacaatggcttacgtgacattga	AA059550
16341	tggacttcactcagcctgcagacaa	AA059550
16342	ctcagcctgcagacaagtgtgatgg	AA059550
16343	ctgtgtcttctttcatccttcctca	AA059550
16344	ttcctcaccgacctgacaatgatga	AA059550
16345	accgacctgacaatgatgagagctg	AA059550
16346	atagttccgaggatgagtcgaagtg	AA059550
16347	tgaagatgcacacagctcgggtgat	AA059550
16348	tgcacacagctcgggtgatggacat	AA059550
16349	acacagctcgggtgatggacatcga	AA059550
16350	tggacatcgagcatctcaccggttt	AA059550
16351	atggcttacgtgacattgaggatga	AA059550
16352	tcgagcatctcaccggtttggattt	AA059550
16353	aaggcagctctattcctgtccctac	AA059550
16354	actactacagcatcatcaccagctg	AA059550
16355	actacagcatcatcaccagctgcct	AA059550
16356	gcatcatcaccagctgcctggactt	AA059550
16357	tcaccagctgcctggacttcactca	AA059550
16358	gctgcctggacttcactcagcctgc	AA059550
16359	gcctggacttcactcagcctgcaga	AA059550
16360	agaatcggagtctaacctgggcatt	D16333
16361	gaatcggagtctaacctgggcattt	D16333
16362	aatctacagattcaacatgtcttac	D16333
16363	atctacagattcaacatgtcttaca	D16333
16364	tctacagattcaacatgtcttacat	D16333
16365	ctacagattcaacatgtcttacata	D16333
16366	tacagattcaacatgtcttacatag	D16333
16367	acagattcaacatgtcttacataga	D16333
16368	cagattcaacatgtcttacatagat	D16333
16369	agattcaacatgtcttacatagatt	D16333
16370	gattcaacatgtcttacatagattc	D16333
16371	attcaacatgtcttacatagattca	D16333
16372	gactgcgctatgttacttgatttat	D16333
16373	actgcgctatgttacttgatttata	D16333
16374	aatattatcctggaatatgttggat	D16333
16375	atattatcctggaatatgttggatg	D16333
16376	tattatcctggaatatgttggatgt	D16333
16377	attatcctggaatatgttggatgta	D16333
16378	tgattgtgtttgccacttttagggt	D16333
16379	aaatctacagattcaacatgtctta	D16333
16380	tcgccgcttcggattcttggaccag	L38607
16381	ccgcttcggattcttggaccagact	L38607
16382	tcgctctgtcttggcactaggaatt	L38607
16383	ttccttgactttgacaaattgaga	L38607
16384	agagattcacaggtccagcgtttta	L38607
16385	ctccaagaaatgcctctacttgttc	L38607
16386	caagaaatgcctctacttgttcaca	L38607
16387	gaaatgcctctacttgttcacactt	L38607
16388	ctacttgttcacacttgtttggtag	L38607
58925	tgaccggacactttacttcagcgga	W42399
58926	gacactttacttcagcggaagatct	W42399
58927	cactttacttcagcggaagatctga	W42399
58928	aagatctgaacctgttgattgctaa	W42399
58929	gatctgaacctgttgattgctaaaa	W42399
58930	gcaacccaaggcctcaatatgtcgt	W42399
58931	caaggcctcaatatgtcgtacaact	W42399
58932	aggcctcaatatgtcgtacaactac	W42399
58933	ctcaatatgtcgtacaactacgtcg	W42399
58934	caatatgtcgtacaactacgtcgta	W42399
58935	tacaactacgtcgtaacggcgcaga	W42399
58936	cgtcgtaacggcgcagaacctactg	W42399
58937	gtaacggcgcagaacctactgcagt	W42399
58938	tctagcggctcatgatggccaacca	W45827
58939	tgatggccaaccacaaccagtatct	W45827
58940	aagcattcctgcaagagcgacatcc	W45827
58941	cattcctgcaagagcgacatcctta	W45827
58942	tgcaagagcgacatccttacaggac	W45827
58943	aagagcgacatccttacaggacaat	W45827
58944	agcgacatccttacaggacaatttt	W45827
58945	gatggacacctccagggagattttg	W45827
58946	ggacacctccagggagattttgaag	W45827
58947	cacctccagggagattttgaagcac	W45827
58948	attatatctcgtggggccccaggat	W45827
58949	atatctcgtggggccccaggatcaa	W45827
58950	tggccaaccacaaccagtatctcct	W45827
58951	acaaccagtatctcctgcgtcttcg	W45827
58952	accagtatctcctgcgtcttcgaac	W45827
58953	agtatctcctgcgtcttcgaacgga	W45827
58954	tcctgcgtcttcgaacggacctgtc	W45827
58955	acctgtcgccagtttgacaagctgc	W45827
58956	gccttcatgaagcattcctgcaaga	W45827
58957	atgaagcattcctgcaagagcgaca	W45827
58958	tctgggccccaagcctgctctgaag	X54511
58959	ccccaagcctgctctgaaggagggt	X54511
58960	cttcatctctcgaatgaggtattcc	X54511
58961	gtattccccaaacactcaggtggag	X54511
58962	cccaaacactcaggtggagatactg	X54511
58963	gatactgcgccagggccgagagagt	X54511
58964	agagagtcccatcttcaagcaattc	X54511
58965	tcccatcttcaagcaattcttcaag	X54511
58966	gcaattcttcaagaactggaagtga	X54511
58967	cctgctgggtcagtactgaggtgcc	X54511
58968	gtactgaggtgccctctggatgcac	X54511
58969	aggtgccctctggatgcacaataaa	X54511
58970	taaccccgaggaagacattacagct	X54511
58971	tgactccagccctttgcctctgaa	X54511
58972	actgctaattccagatgactgcttt	X54511
58973	aattccagatgactgctttgttctg	X54511
58974	ctgctttgttctggacaacgggctg	X54511
58975	tgttctggacaacgggctgtggtgc	X54511
58976	ggcagccctccaagtggctgatggc	X54511
58977	tgatggcttcatctctcgaatgagg	X54511
58978	agccgctggacgcgcgtgaatgagc	W46752
58979	ccctagcgcaggatgttcgtgctgg	W46752
58980	ctctgcatctgtctgtttgatatca	W46752
58981	ctgtttgatatcaccaagctggagg	W46752
58982	tttgatatcaccaagctggaggatg	W46752
58983	atcaccaagctggaggatgcctacg	W46752
58984	gatgcctacgtattcccaggggatg	W46752
58985	ggagcatcacatacccaaagtgcatt	W46752
58986	gcatcacatacccaaagtgcatttcc	W46752
58987	cataccaaagtgcatttccgatacg	W46752
58988	accaaagtgcatttccgatacgtgg	W46752
58989	aaagtgcatttccgatacgtggtgt	W46752
58990	atggtggacaccgtgcgcatacccc	W46752
58991	cggaaactcaacgactccattgctg	W46752
58992	aaactcaacgactccattgctgagg	W46752
101529	gaccaccagctgctgcaggagagcc	AA163065
101530	caccagctgctgcaggagagcctag	AA163065
101531	cagctgctgcaggagagcctagtct	AA163065
101532	tctattcaaaccagaccctgatctg	AA163075
101533	attcaaaccagaccctgatctggtg	AA163075
101534	ctcaatgcctgaccgataagttctg	AA163075
101535	gcctgaccgataagttctggatagt	AA163075
101536	tttagcaacttgtccaaaaccatag	AA163075
101537	agcaacttgtccaaaaccatagaca	AA163075
101538	attatatgcagttctctaaagcaag	AA163075
101539	tgcagttctctaaagcaagacctgg	AA163075
101540	agttctctaaagcaagacctggagg	AA163075
101541	aatctaagctaatcactggtatcca	AA163075
101542	taatcactggtatccatcatttgaa	AA163075
101543	ctggtatccatcatttgaagactaa	AA163075
101544	caaaccagaccctgatctggtgatc	AA163075
101545	agactaagctctcggacctgctgaa	AA163075
101546	agaccctgatctggtgatccactac	AA163075
101547	ccctgatctggtgatccactacttt	AA163075
101548	tgatctggtgatccactactttcta	AA163075
101549	ggtgatccactactttctatcaggt	AA163075
101550	gatccactactttctatcaggtttt	AA163075
101551	gttgtcctcaatgcctgaccgataa	AA163075
101552	gtcctcaatgcctgaccgataagtt	AA163075
101553	ccaaagaacccacaagaatgcttat	AA162058
101554	agaacccacaagaatgcttattact	AA162058
101555	gacaacacagactacaactctaggc	AA162058
101556	acacagactacaactctaggctctg	AA162058
101557	acagactacaactctaggctctggg	AA162058
101558	agactacaactctaggctctgggca	AA162058
101559	actacaactctaggctctgggcatg	AA162058
101560	caactctaggctctgggcatgggag	AA162058
101561	tggcaagcagctgaggccgttgtat	AA162058
101562	gcaagcagctgaggccgttgtatga	AA162058
101563	aagcagctgaggccgttgtatgaag	AA162058
101564	agctgaggccgttgtatgaagagta	AA162058
101565	aacccacaagaatgcttattacttg	AA162058
101566	aaccgtaaccagttgattgaagatg	AA162058
101567	aatgcttattacttgagccaggatt	AA162058
101568	cttattacttgagccaggattggat	AA162058
101569	ttacttgagccaggattggatgaaa	AA162058
101570	acttgagccaggattggatgaaata	AA162058
101571	aatggcgacaacacagactacaact	AA162058
101572	tggcgacaacacagactacaactct	AA162058
101573	gcgacaacacagactacaactctag	AA162058
101574	tgaccactgtgtctataactccact	M17376
101575	ctgtgtctataactccactcatcta	M17376
101576	agatatcaccccggagctgcgggaa	M17376
101577	agtattccagaaggctgtcacacac	M17376
101578	gaagcagcagcttgagctggagaag	M17376
101579	agatcctgaggaaggccaggcatga	M17376
101580	ggcatgaactcagctctctgaactc	M17376
101581	aactcagctctctgaactccgaggg	M17376
101582	tgtctctgccacaataaaggtttgc	M17376
101583	ctgacacagtcaatatcacttcttt	M17376
101584	cagtcaatatcacttctttgcttct	M17376
101585	agtcctgagtggagccttagctaag	M17376
101586	ctataactccactcatctaggaatc	M17376
101587	tcatctaggaatccagagagagaat	M17376
101588	cctctccaagtatgtaggaggagta	M17376
101589	agacctgatagtcttgaagatgcat	M17376
101590	cttcatgcttgcctttgacttgaag	M17376
101591	gcttgcctttgacttgaaggatgag	M17376
101592	actgtccctcaatgcaaaaaggcca	M17376
101593	aaggccagatatcaccccggagctg	M17376
101594	tcccgggctggatctccgtgctggg	W34965
101595	cgggcccactgtggagtggcagcca	W34965
101596	catggactatggcccgatagagcag	W34965

TABLE 1

SEQ ID NO	sequence	DBAxnID
16389	cttgttcacacttgtttggtagact	L38607
16390	gtacttactacgtattctttgcaag	L38607
16391	acgtattctttgcaaggagtattgt	L38607
16392	cttggaccagactgtgttgggcgac	L38607
16393	gtttagctcagagggtccatctatt	L38607
16394	tagctcagagggtccatctatttat	L38607
16395	gggtccatctatttatgcaaaatcg	L38607
16396	tccatctatttatgcaaaatcgccc	L38607
16397	tgcaaaatcgccctatgctgcaacc	L38607
16398	gccctatgctgcaaccctgacttgg	L38607
16399	gagtcgctctgtcttggcactagga	L38607
16400	tcatcaccatgaccacagtgggcta	W59280
16401	atggcgacatctaccccaagaccac	W59280
16402	tcattaacaactttgtcaggtacta	W59280
16403	tcaggtactacaacaaacaacgtgt	W59280
16404	aacgtgtcctggagacggcagccaa	W59280
16405	agacggcagccaagcatgagctgga	W59280
16406	cggcagccaagcatgagctggagct	W59280
16407	cagccaagcatgagctggagctgat	W59280
16408	tgatggagctcaactccagcagcgc	W59280
16409	tggagctcaactccagcagcgcaga	W59280
16410	tcaactccagcagcgcagaaagcaa	W59280
16411	actccagcagcgcagaaagcaagcc	W59280
16412	tctaccccaagaccactctgggcaa	W59280
16413	accccaagaccactctgggcaagct	W59280
16414	ccaagaccactctgggcaagctcaa	W59280
16415	ccactctgggcaagctcaacgcggc	W59280
16416	ctctgggcaagctcaacgcggccat	W59280
16417	tcaacgcggccatcagcttcttgtg	W59280
16418	acgcggccatcagcttcttgtgtgg	W59280
16419	ttcaccccatcattaacaactttgt	W59280
16420	aatagatgacacctcaagaaattct	U03434
16421	tgacacctcaagaaattctccaagg	U03434
16422	ttcacgtgcactgacacagcactta	U03434
16423	gacacagcacttacgttgatgtaga	U03434
16424	tcatgctcttacgtgcaaggatctt	U03434
16425	tcttacgtgcaaggatcttatgtca	U03434
16426	aatctcatgctgttacgtgcaggat	U03434
16427	atgctgttacgtgcaggattgtatc	U03434
16428	ctttctcagggcaggagctctgaac	U03434
16429	tctgaacctggcattatctagaagt	U03434
16430	agttgctaatgtgctgctatatggc	U03434
16431	taatgtgctgctatatggcagatca	U03434
16432	aaattctccaaggctgggtttgctg	U03434
16433	gctgggtttgctggaccggattgtc	U03434
16434	caactatagcagagcctccataaat	U03434
16435	tagcagagcctccataaattcactg	U03434
16436	tgacaagcgctccctgaacagcgtt	U03434
16437	gcgctccctgaacagcgttgttact	U03434
16438	tgatgacaccacactgtaaaaagcc	U03434
16439	ttaaagttcacgtgcactgacacag	U03434
16440	acttgtctgggtccttcaacaactg	AA098332
16441	ggtccttcaacaactggagcaagct	AA098332
16442	tcttcgtggatggacagtggaccca	AA098332
16443	atgatccttctgagccaatagtaac	AA098332
16444	atccttctgagccaatagtaaccag	AA098332
16445	agccaatagtaaccagccagcttgg	AA098332
16446	caatagtaaccagccagcttggcac	AA098332
16447	taaccagccagcttggcacagttaa	AA098332
16448	ccagccagcttggcacagttaacaa	AA098332
16449	cagttaacaacatcattcaagtgaa	AA098332
16450	tggattcccaaaagtgctccgatgt	AA098332
16451	agtgctccgatgtgtctgagctgtc	AA098332
16452	ccttcaacaactggagcaagcttcc	AA098332
16453	ataactttgtagccatcctggacct	AA098332
16454	actttgtagccatcctggacctgcc	AA098332
16455	ttgtagccatcctggacctgcctga	AA098332
16456	tcctggacctgcctgaaggagagca	AA098332

SEQ ID NO:	sequence	DBAxnID
58993	aacgactccattgctgaggagctga	W46752
58994	gactccattgctgaggagctgaaca	W46752
58995	tccattgctgaggagctgaacaaga	W46752
58996	aatgtgggactctgcatctgtctgt	W46752
58997	ggactctgcatctgtctgtttgata	W46752
58998	caccaatttatgactacagagactg	W46757
58999	accaatttatgactacagagactgg	W46757
59000	aatgtacagcagactaaccgtacag	W46757
59001	tgtacagcagactaaccgtacagaa	W46757
59002	gtacagcagactaaccgtacagaaa	W46757
59003	acagcagactaaccgtacagaaaca	W46757
59004	gcagactaaccgtacagaaacagtt	W46757
59005	taaagtacctgctgatctcttaaag	W46757
59006	aaagtacctgctgatctcttaaagc	W46757
59007	gtacctgctgatctcttaaagcggg	W46757
59008	acctgctgatctcttaaagcgggcc	W46757
59009	tcgttcccactttgccagttctcac	W46757
59010	tgactacagagactggctgataaaa	W46757
59011	actacagagactggctgataaaagt	W46757
59012	aaggctacacactaatgtacagcag	W46757
59013	aggctacacactaatgtacagcaga	W46757
59014	gctacacactaatgtacagcagact	W46757
59015	ctacacactaatgtacagcagacta	W46757
59016	acacactaatgtacagcagactaac	W46757
59017	cactaatgtacagcagactaaccgt	W46757
59018	aattgttgacattcaagccggaaag	W49254
59019	attgttgacattcaagccggaaagt	W49254
59020	gggaacttccacggagacagcgaat	W49254
59021	ggaacttccacggagacagcgaatt	W49254
59022	gaacttccacggagacagcgaattg	W49254
59023	aacttccacggagacagcgaattgt	W49254
59024	acttccacggagacagcgaattgta	W49254
59025	cttccacggagacagcgaattgtag	W49254
59026	ttccacggagacagcgaattgtagc	W49254
59027	tccacggagacagcgaattgtagct	W49254
59028	cgaattgtagcttgaccggatctct	W49254
59029	aattgtagcttgaccggatctctgt	W49254
59030	ttgttgacattcaagccggaaagtt	W49254
59031	tgttgacattcaagccggaaagttt	W49254
59032	ttgacattcaagccggaaagttttg	W49254
59033	tgacattcaagccggaaagttttgc	W49254
59034	gacattcaagccggaaagttttgca	W49254
59035	gttttgcaaccagattggggctaag	W49254
59036	ttttgcaaccagattggggctaagt	W49254
59037	tttgcaaccagattggggctaagtt	W49254
59038	ccacagcagctacgtcctgcagcag	W48002
59039	cagcagctacgtcctgcagcagcta	W48002
59040	cgccattgacgacacttacttccaa	W48002
59041	cattgacgacacttacttccaagca	W48002
59042	tgacgacacttacttccaagcacac	W48002
59043	cacttacttccaagcacacaaggcc	W48002
59044	ttacttccaagcacacaaggccgtg	W48002
59045	cttccaagcacacaaggccgtgcta	W48002
59046	agcacacaaggccgtgctagctgcc	W48002
59047	cgtgctagctgcctgtagctcctac	W48002
59048	gctagctgcctgtagctcctacttc	W48002
59049	agctgcctgtagctcctacttcagg	W48002
59050	ctacgtcctgcagcagctaaacaac	W48002
59051	ctgtagctcctacttcaggatgttc	W48002
59052	cgtcctgcagcagctaaacaaccag	W48002
59053	cctgcagcagctaaacaaccagaga	W48002
59054	gggctttctgtgcgactgctgcatc	W48002
59055	tctgtgcgactgctgcatcgccatt	W48002
59056	cgactgctgcatcgccattgacgac	W48002
59057	ctgctgcatcgccattgacgacact	W48002
59058	ctgcatcgccattgacgacacttac	W48002
59059	tcggctactgccagcgcttccaaag	W49272
59060	cggctactgccagcgcttccaaagc	W49272

SEQ ID NO	sequence	DBAxnID
101597	atggactatggcccgatagagcaga	W34965
101598	gactatggcccgatagagcagaaga	W34965
101599	ctatggcccgatagagcagaagatt	W34965
101600	gattgtaaccagtcctggcacttta	W34965
101601	tgtaaccagtcctggcactttaact	W34965
101602	cagtcctggcactttaacttagatg	W34965
101603	agtcctggcactttaacttagatga	W34965
101604	tcctggcactttaacttagatgaga	W34965
101605	cctggcactttaacttagatgagat	W34965
101606	aggttaacagctgccaagactctct	W34965
101607	ttaacagctgccaagactctctgga	W34965
101608	caagactctctggattactggacaa	W34965
101609	aagactctctggattactggacaat	W34965
101610	gactctctggattactggacaatac	W34965
101611	actctctggattactggacaataca	W34965
101612	atacatggactatggcccgatagag	W34965
101613	tacatggactatggcccgatagagc	W34965
101614	tagtgagcttcctgtgcttcttcac	L06451
101615	tgagcttcctgtgcttcttcaccgt	L06451
101616	cctccatgaactcgctggatttctc	L06451
101617	actcgctggatttctcctctgtttc	L06451
101618	cgctggatttctcctctgtttctat	L06451
101619	cctctgtttctatcgtggcactgaa	L06451
101620	ctgtttctatcgtggcactgaacaa	L06451
101621	ctatcgtggcactgaacaagaaatc	L06451
101622	gtttcttcggcagcgcctgcacctg	L06451
101623	gcagcgcctgcacctgtcgagtact	L06451
101624	gcgcctgcacctgtcgagtactcaa	L06451
101625	tcaaccccaactgctgacgcagctt	L06451
101626	gcttcctgtgcttcttcaccgtcca	L06451
101627	acagccacctggcactcgaggagac	L06451
101628	acctggcactcgaggagacgcttgg	L06451
101629	tggcactcgaggagacgcttggaga	L06451
101630	cactcgaggagacgcttggagatga	L06451
101631	atgacaggagtctgcggagtaactc	L06451
101632	ggagtaactcctccatgaactcgct	L06451
101633	actcctccatgaactcgctggattt	L06451
101634	ttgactggcgtgtttgatctcgttc	AA163210
101635	tgtttgatctcgttcaatcaactgg	AA163210
101636	atgcttgctcttcaataatttcctt	AA163210
101637	tgcttgctcttcaataatttcctta	AA163210
101638	cttgctcttcaataatttccttaag	AA163210
101639	ttgctcttcaataatttccttaaga	AA163210
101640	attaagtaatgccttgcttgaagtt	AA163210
101641	taagtaatgccttgcttgaagttga	AA163210
101642	aagtaatgccttgcttgaagttgag	AA163210
101643	taatgccttgcttgaagttgagtaa	AA163210
101644	atgccttgcttgaagttgagtaaaa	AA163210
101645	tgccttgcttgaagttgagtaaaaa	AA163210
101646	tttgatctcgttcaatcaactggtc	AA163210
101647	ttcaatcaactggtcctaataagct	AA163210
101648	caatcaactggtcctaataagctga	AA163210
101649	aatcaactggtcctaataagctgaa	AA163210
101650	tcaactggtcctaataagctgaagg	AA163210
101651	caactggtcctaataagctgaaggg	AA163210
101652	ggaatgcttgctcttcaataatttc	AA163210
101653	gaatgcttgctcttcaataatttcc	AA163210
101654	aatacaccggagacagctagtacca	AA163348
101655	aagcatcttgtatgcccaagaggat	AA163348
101656	cccaagaggatcctcaacctgtgac	AA163348
101657	ccaagaggatcctcaacctgtgacc	AA163348
101658	aagaggatcctcaacctgtgaccat	AA163348
101659	agaggatcctcaacctgtgaccatg	AA163348
101660	aggatcctcaacctgtgaccatgat	AA163348
101661	ggatcctcaacctgtgaccatgatg	AA163348
101662	atcctcaacctgtgaccatgatgct	AA163348
101663	tcctcaacctgtgaccatgatgctc	AA163348
101664	aacctgtgaccatgatgctcctcct	AA163348

TABLE 1

SEQ ID NO	sequence	DBAxnID
16457	atcagtacaagttcttcgtggatgg	AA098332
16458	agtacaagttcttcgtggatggaca	AA098332
16459	agttcttcgtggatggacagtggac	AA098332
16460	tgtcctttttataggatcagattggc	U12919
16461	tttgcaatcaagcatttttttgatgc	U12919
16462	agcacttgccttttctccagtcttc	U12919
16463	tgccttttctccagtcttctgagct	U12919
16464	ccacttgacaggaacatgtgttcag	U12919
16465	gtgaactgagcccctcaacaaatgc	U12919
16466	tgagcccctcaacaaatgccaaatt	U12919
16467	ccagcttcgtgagatgggtgtctta	U12919
16468	tgtcttactgtgcttagctccagag	U12919
16469	actgtgcttagctccagagcattcc	U12919
16470	cttagctccagagcattccgagaga	U12919
16471	tccagagcattccgagagagatgac	U12919
16472	ttgatgcaagtcttttgggacaagg	U12919
16473	ggtcagcctagcttggtctcaaact	U12919
16474	gtctccggagtgtttcaattacaga	U12919
16475	atgtgcacgactatctccagctgtt	U12919
16476	acgactatctccagctgtttctgtg	U12919
16477	atctccagctgtttctgtgggaaag	U12919
16478	ggacaactttgtagcacttgccttt	U12919
16479	ctttgtagcacttgccttttctcca	U12919
16480	accagcaactcaatgacctgaaaac	L38698
16481	cagcaactcaatgacctgaaaacct	L38698
16482	cccagattctaccatctcaaagata	L38698
16483	cagattctaccatctcaaagatacc	L38698
16484	attctaccatctcaaagataccagt	L38698
16485	ttctaccatctcaaagataccagtc	L38698
16486	taccatctcaaagataccagtcatt	L38698
16487	tctcaaagataccagtcattttgac	L38698
16488	ctcaaagataccagtcattttgaca	L38698
16489	caaagataccagtcattttgacatg	L38698
16490	agataccagtcattttgacatgaat	L38698
16491	gataccagtcattttgacatgaatt	L38698
16492	agcaactcaatgacctgaaaacctg	L38698
16493	acaagttgcctagatgcttctgcag	L38698
16494	caactcaatgacctgaaaacctgtc	L38698
16495	gagtctgagacccagtggagagaat	L38698
16496	tctgagacccagtggagagaatctc	L38698
16497	agagaatctcctggactaggacact	L38698
16498	aggacactgcacctctctgcccaga	L38698
16499	tctctgcccagattctaccatctca	L38698
16500	gcccagattctaccatctcaaagat	L38698
16501	gcagccaacagcgatggcacggtag	M81831
16502	gcctgcaacatgctcatgcccgagc	M81831
16503	accgtgagccagttgtctgtcatcc	M81831
16504	ttgtctgtcatcctgggctatgcca	M81831
16505	aacttcaagcgctctttccagcgca	M81831
16506	aagcgctctttccagcgcatcctgt	M81831
16507	tctttccagcgcatcctgtgcctca	M81831
16508	atcctgtgcctcagctggatggata	M81831
16509	gtcgactactatgccactgccctga	M81831
16510	tactatgccactgccctgaagagtc	M81831
16511	aatggcacctgcgcttccaggatca	M81831
16512	acctgcgcttccaggatcagcacgc	M81831
16513	ttcgtcttatacacatttctcatgg	M81831
16514	cttccaggatcagcacgctttgagg	M81831
16515	atttgcctgtgttatgtgctcatca	M81831
16516	tatgtgctcatcattgccaagatgc	M81831
16517	gtggccctcaaggctggctggcagc	M81831
16518	cagcgcaagcgctcagagcgcaaga	M81831
16519	cgcaagatcactctaatggtgatga	M81831
16520	atcactctaatggtgatgatggtgg	M81831
16521	gacgccaccgtgagccagttgtctg	M81831
16522	gacccgcatggtgtccatcgtagtg	X68951
16523	catggtgtccatcgtagtggctgtc	X68951
16524	agacaattcacaatccggagcggaa	X68951

SEQ ID NO	sequence	DBAxnID
59061	ctgcaaccaatctaggccatggtgg	W49272
59062	gcaaccaatctaggccatggtggcg	W49272
59063	accaatctaggccatggtggcgttc	W49272
59064	ccaatctaggccatggtggcgttcg	W49272
59065	aatctaggccatggtggcgttcggt	W49272
59066	atctaggccatggtggcgttcggtt	W49272
59067	tctaggccatggtggcgttcggttc	W49272
59068	aagcacagaaacctgaactggtcgc	W49272
59069	agcacagaaacctgaactggtcgcc	W49272
59070	cacagaaacctgaactggtcgccaa	W49272
59071	tgccagcgcttccaaagccgccatg	W49272
59072	gccagcgcttccaaagccgccatgt	W49272
59073	cattcccattctgatggagattgcg	W49272
59074	aaggcagctgcaaccaatctaggcc	W49272
59075	aggcagctgcaaccaatctaggcca	W49272
59076	gcagctgcaaccaatctaggccatg	W49272
59077	cagctgcaaccaatctaggccatgg	W49272
59078	agctgcaaccaatctaggccatggt	W49272
59079	caactctttctgctatgagaacgag	X80417
59080	gctggccttcctgatcagagatgag	X80417
59081	agcctcgggtcacagactcagtagc	X80417
59082	tcacagactcagtagcatcttagtc	X80417
59083	cagactcagtagcatcttagtcttt	X80417
59084	actcagtagcatcttagtcttttc	X80417
59085	ttttcgcagtagcttgggaaagttg	X80417
59086	ccaaatgactggctcacggcctcgg	X80417
59087	ctcacggcctcggaggctgatgtat	X80417
59088	gatgtatacccatgggcaaggaggt	X80417
59089	gtatacccatgggcaaggaggtgac	X80417
59090	ctctgctggaggccttaggtgcagg	X80417
59091	ggccttcctgatcagagatgaggag	X80417
59092	tcagcccgagcatgactttgacaga	X80417
59093	tgactttgacagactgcaggccagc	X80417
59094	ctttgacagactgcaggccagcagc	X80417
59095	actgcaggccagcagcgctgccctt	X80417
59096	ccctgaccacaataggtcccatgtc	X80417
59097	caggccgaaagcctcgggtcacaga	X80417
59098	gaaagcctcgggtcacagactcagt	X80417
59099	cagtgagaccctgtcttgaaaagga	W89331
59100	tgagaccctgtcttgaaaaggaaag	W89331
59101	tgagcctgctaagcggctgacctta	W89331
59102	gcctgctaagcggctgaccttaggt	W89331
59103	gcggctgaccttaggtgaagccctt	W89331
59104	aggtgaagcccttcagcatcctttc	W89331
59105	tgaagcccttcagcatcctttcttc	W89331
59106	tcggactgagccacccaacaccaag	W89331
59107	tgagccacccaacaccaagttgtgg	W89331
59108	caacaccaagttgtgggactccagt	W89331
59109	gtgggactccagtcgggatatcagt	W89331
59110	ggactccagtcgggatatcagtcgg	W89331
59111	taaggcattgccttaccttcttcct	W89331
59112	ccaccagcggtatctgacctcagag	W89331
59113	ccagcggtatctgacctcagaggca	W89331
59114	gcggtatctgacctcagaggcagag	W89331
59115	tctgacctcagaggcagaggaccac	W89331
59116	ccaccagctcttcgatctgattgaa	W89331
59117	ccagctcttcgatctgattgaaaat	W89331
59118	gctcttcgatctgattgaaaatatg	W89331
59119	cccacagcccagctggtacagagag	X70303
59120	tacacgcagtcaggtggtgttcgtc	X70303
59121	atctgcaatgaggctggctttagga	X70303
59122	aatgaggctggctttaggaggctca	X70303
59123	aggctcactccaactgaagtgaggg	X70303
59124	gattacctggctgccatagcgtgat	X70303
59125	tacctggctgccatagcgtgatgaa	X70303
59126	agatgtgctcacacactcgacttttt	X70303
59127	tgtgctcacacactcgacttttttca	X70303
59128	cacacactcgacttttttcatgttta	X70303

SEQ ID NO	sequence	DBAxnID
101665	acctgtgaccatgatgctcctccta	AA163348
101666	gcatcttgtatgcccaagaggatcc	AA163348
101667	catcttgtatgcccaagaggatcct	AA163348
101668	tcttgtatgcccaagaggatcctca	AA163348
101669	cttgtatgcccaagaggatcctcaa	AA163348
101670	tgtatgcccaagaggatcctcaacc	AA163348
101671	gtatgcccaagaggatcctcaacct	AA163348
101672	atgcccaagaggatcctcaacctgt	AA163348
101673	tgcccaagaggatcctcaacctgtg	AA163348
101674	agaacagcagtactttgttgagtgg	W12323
101675	aacagcagtactttgttgagtggat	W12323
101676	tgttcaaacggatcttagaggagtt	W12323
101677	caacatttacgaacttgtgtcccag	W12323
101678	acatttacgaacttgtgtcccagtg	W12323
101679	catttacgaacttgtgtcccagtgt	W12323
101680	ttacgaacttgtgtcccagtgtcca	W12323
101681	tacgaacttgtgtcccagtgtccag	W12323
101682	tgtgtcccagtgtccaggcagtaca	W12323
101683	gtgtcccagtgtccaggcagtacaa	W12323
101684	tgtcccagtgtccaggcagtacaag	W12323
101685	gtcccagtgtccaggcagtacaagg	W12323
101686	cagcagtactttgttgagtggatcc	W12323
101687	tcccagtgtccaggcagtacaagga	W12323
101688	ccaggaaccggtattcaggagcctg	W12323
101689	gtattcaggagcctgttcaaacgga	W12323
101690	attcaggagcctgttcaaacggatc	W12323
101691	ttcaggagcctgttcaaacggatct	W12323
101692	tcaggagcctgttcaaacggatctt	W12323
101693	agcctgttcaaacggatcttagagg	W12323
101694	gcctgttcaaacggatcttagagga	W12323
101695	tgaaattcattcactgtaatgatat	AA163271
101696	atatatgtcagtcttgctgccacaa	AA163271
101697	ttgctcatactgcatgggtcaatag	AA163271
101698	ctcatactgcatgggtcaatagatg	AA163271
101699	gacattccagctgaccagtcaacat	AA163271
101700	attccagctgaccagtcaacatcac	AA163271
101701	gctgaccagtcaacatcacaccagc	AA163271
101702	gaccagtcaacatcacaccagctgc	AA163271
101703	tcaacatcacaccagctgcgccaat	AA163271
101704	tcacaccagctgcgccaataaggag	AA163271
101705	caccagctgcgccaataaggagaga	AA163271
101706	cagctgcgccaataaggagagagat	AA163271
101707	tatgtcagtcttgctgccacaatct	AA163271
101708	gtcagtcttgctgccacaatctcat	AA163271
101709	agtcttgctgccacaatctcattgc	AA163271
101710	cttgctgccacaatctcattgctca	AA163271
101711	gccacaatctcattgctcatactgc	AA163271
101712	acaatctcattgctcatactgcatg	AA163271
101713	atctcattgctcatactgcatgggt	AA163271
101714	tcattgctcatactgcatgggtcaa	AA163271
101715	ttccgtggcacactgcgacctgtcc	AA163643
101716	tccgtggcacactgcgacctgtcca	AA163643
101717	tgcgacctgtccagaaggcccttcg	AA163643
101718	gcgacctgtccagaaggcccttcga	AA163643
101719	cgacctgtccagaaggcccttcgag	AA163643
101720	gacctgtccagaaggcccttcgaga	AA163643
101721	gtggttctacagaatcccaagattc	AA163643
101722	tggttctacagaatcccaagattca	AA163643
101723	gttctacagaatcccaagattcaga	AA163643
101724	tctacagaatcccaagattcagaac	AA163643
101725	cagaatcccaagattcagaacttct	AA163643
101726	gaatcccaagattcagaacttctgc	AA163643
101727	cgtggcacactgcgacctgtccaga	AA163643
101728	aatcccaagattcagaacttctgca	AA163643
101729	gtggcacactgcgacctgtccagaa	AA163643
101730	tggcacactgcgacctgtccagaag	AA163643
101731	ggcacactgcgacctgtccagaagg	AA163643
101732	cacactgcgacctgtccagaaggcc	AA163643

TABLE 1

SEQ ID NO	sequence	DBAxnID
16525	agacatcattgcctgggtgtgacct	X68951
16526	tgtgctaacacgttacgtaaatctt	X68951
16527	cccggtcacacaaacatgtcccgtg	X68951
16528	cacacaaacatgtcccgtgtttgta	X68951
16529	aagcccaagtagctagttcgtgtgc	X68951
16530	ctagttcgtgtgcgtctagtatagg	X68951
16531	agttaccacaacgctgaacctgaag	X68951
16532	cacaacgctgaacctgaagaaaagg	X68951
16533	gactcgccacgtcacagtcagtcca	X68951
16534	cgtagtggctgtcttcatcttctgc	X68951
16535	acagtcagtccaatctccggaattc	X68951
16536	ggctgtcttcatcttctgctggctc	X68951
16537	cttcatcttctgctggctccctttc	X68951
16538	cttctgctggctccctttctacatc	X68951
16539	aatgtttgactttgtggtgatcctc	X68951
16540	tgtggtgatcctcacctatgccaac	X68951
16541	cctgtacgccttcttgtctgacaac	X68951
16542	cttccagaatgttctttgcttggtc	X68951
16543	ggtgcatctccgacaccatgagcgg	AA144400
16544	accatgagcggcttcacagcgagga	AA144400
16545	gctggtccaacgccaaaatggagat	AA144400
16546	tggtccaacgccaaaatggagattg	AA144400
16547	cctttaaacccaatcaagcaagatg	AA144400
16548	tttaaacccaatcaagcaagatgtg	AA144400
16549	taaacccaatcaagcaagatgtgaa	AA144400
16550	cccaatcaagcaagatgtgaaaaag	AA144400
16551	ggaagctccgctatgtggcgaatct	AA144400
16552	gctccgctatgtggcgaatctgttc	AA144400
16553	tccgctatgtggcgaatctgttccc	AA144400
16554	gtggcgaatctgttcccttataaag	AA144400
16555	ccatttcatgatgttccaatttatg	AA144400
16556	atttcatgatgttccaatttatgca	AA144400
16557	atgtgttccacatggtggttgaggt	AA144400
16558	gtgttccacatggtggttgaggttc	AA144400
16559	tccacatggtggttgaggttccacg	AA144400
16560	ttgaggttccacgctggtccaacgc	AA144400
16561	gaggttccacgctggtccaacgcca	AA144400
16562	acgctggtccaacgccaaaatggag	AA144400
16563	ggcccacattaccccaattgaggca	
16564	cccaattgaggcatccattctttct	
16565	agggttgaacagccaggtgagactt	
16566	gttgaacagccaggtgagacttgag	
16567	cagccaggtgagacttgaggggact	
16568	acttgaggggactcagagatctaga	
16569	atctagaaaagctggcctaagagtg	
16570	tggcctaagagtgtgttcagtccct	
16571	agtgtgttcagtcccttggcagctc	
16572	tgtttcagattcttcacgagacaca	
16573	aacagaggtcatttttctatcctgt	
16574	caaatctactcaggtgaatgggcat	
16575	aattgaggcatccattctttctacc	
16576	ggcatccattctttctaccggcatc	
16577	cattctttctaccggcatcacttca	
16578	tactctacgtattcccaagatgagt	
16579	ggtcactttcccaactatgagattc	
16580	cccaactatgagattccacaagtct	
16581	ccacaagtcttcagggttgaacagc	
16582	caagtcttcagggttgaacagccag	
16583	ctacactgcctatagggcagcatgc	U46956
16584	tgcctatagggcagcatgctgcagg	U46956
16585	agagcacgaccacgcctggccagta	U46956
16586	cgaccacgcctggccagtatgtgct	U46956
16587	atgtgctcactggcctgcagagtgg	U46956
16588	caaaggatcaccgctttgagagtgt	U46956
16589	tcagtcacctgatcagctaccacat	U46956
16590	accacatggacaatcacttgcccat	U46956
16591	tggacaatcacttgcccatcatctc	U46956
16592	atcacttgcccatcatctctgcggg	U46956

SEQ ID NO:	sequence	DBAxnID
59129	gcagacttatttctacatggtttag	X70303
59130	tttctacatggtttagtggattcac	X70303
59131	acgcagtcaggtggtgttcgtccat	X70303
59132	ttatttcagtcagatccatctggag	X70303
59133	tcagatccatctggagcttactttg	X70303
59134	gatccatctggagcttactttgcct	X70303
59135	tctggagcttactttgcctggaagg	X70303
59136	gcttactttgcctggaaggccacag	X70303
59137	tttgcctggaaggccacagcaatgg	X70303
59138	catacagccatcttaacccttaagg	X70303
59139	gtcagacttgtggctacaagtttca	AA062335
59140	agtttcatgagcactgtagcaccaa	AA062335
59141	caaattccactgttggtgacagtgg	AA062335
59142	ccactgttggtgacagtggagtccc	AA062335
59143	caccttctttcccaatgcgtcggat	AA062335
59144	ctttcccaatgcgtcggatgcgaga	AA062335
59145	caatgcgtcggatgcgagaatctgt	AA062335
59146	tgcgagaatctgtttcccggatgcc	AA062335
59147	ggatgcctgctagttcccagcacag	AA062335
59148	ctgctagttcccagcacagatactc	AA062335
59149	gttcccagcacagatactctacacc	AA062335
59150	agcacagatactctacaccccatgc	AA062335
59151	atgagcactgtagcaccaaagtacc	AA062335
59152	cagaaggttccctgtcccagaggca	AA062335
59153	actgtagcaccaaagtacctactat	AA062335
59154	aagtacctactatgtgtgtggactg	AA062335
59155	ctactatgtgtgtggactggagtaa	AA062335
59156	atatcagacagctcttgctgtttcc	AA062335
59157	gacagctcttgctgtttccaaattc	AA062335
59158	tcttgctgtttccaaattccactgt	AA062335
59159	tgtttccaaattccactgttggtga	AA062335
59160	tctcttccaggtggccttctattta	X51829
59161	ttctatttacccggagagaagccag	X51829
59162	gggctgcacctaagctgccccttcg	X51829
59163	tgcacctaagctgccccttcgactg	X51829
59164	gccttagaaacccatctcttccaca	X51829
59165	cttagaaacccatctcttccacagt	X51829
59166	tccgagcctcgctcttcctctgagg	X51829
59167	cactcccttgacccaagatgtgacc	X51829
59168	ctcccttgacccaagatgtgaccac	X51829
59169	cccttgacccaagatgtgaccacac	X51829
59170	ccttcgcccagcctgtacttgggag	X51829
59171	taagcctgagtagtttcctattatt	X51829
59172	ttacccggagagaagccagaatcac	X51829
59173	agaagccagaatcaccttgggctgc	X51829
59174	gccagaatcaccttgggctgcacct	X51829
59175	cagaatcaccttgggctgcacctaa	X51829
59176	gaatcaccttgggctgcacctaagc	X51829
59177	atcaccttgggctgcacctaagctg	X51829
59178	caccttgggctgcacctaagctgcc	X51829
59179	ttgggctgcacctaagctgcccctt	X51829
59180	ctaataaggcctctgtagccatggc	X64455
59181	aggcctctgtagccatggctacttc	X64455
59182	tcttcggcttggcaatgctccttta	X64455
59183	tcggcttggcaatgctcctttaaga	X64455
59184	tggcaatgctcctttaagaattggt	X64455
59185	caatgctcctttaagaattggttgt	X64455
59186	ttgtttacattcttccatcgtgtaa	X64455
59187	tttacattcttccatcgtgtaaatg	X64455
59188	acattcttccatcgtgtaaatgtca	X64455
59189	aattcacaattctgtctttaattca	X64455
59190	caattctgtctttaattcatggtgt	X64455
59191	atggtgtcttacacaacataaacac	X64455
59192	cctctgtagccatggctacttctga	X64455
59193	ctgtagccatggctacttctgacgt	X64455
59194	ccatggctacttctgacgtgaaacc	X64455
59195	tggctacttctgacgtgaaaccaaa	X64455
59196	ccatggtcgaccgatggccagagac	X64455

SEQ ID NO:	sequence	DBAxnID
101733	acactgcgacctgtccagaaggccc	AA163643
101734	cactgcgacctgtccagaaggccct	AA163643
101735	actgcgacctgtccagaaggccctt	AA163643
101736	tgaccccaggcttcgttgttcgtga	M76987
101737	cccaggcttcgttgttcgtgaatga	M76987
101738	ttcaaactcacactgtgtttatgtt	M76987
101739	aactcacactgtgtttatgttctgc	M76987
101740	ctgtgtttatgttctgcctttcaaa	M76987
101741	gtttatgttctgcctttcaaatggc	M76987
101742	ttatgttctgcctttcaaatggctg	M76987
101743	gttctgcctttcaaatggctgtgtg	M76987
101744	tctgcctttcaaatggctgtgtgtc	M76987
101745	taggccctccttttttcacatgaagt	M76987
101746	gcttagtcaggccacatgtaaagtt	M76987
101747	ttagtcaggccacatgtaaagtttt	M76987
101748	caggcttcgttgttcgtgaatgata	M76987
101749	cttcgttgttcgtgaatgatattct	M76987
101750	ctcccctgtcttgttttggcatagt	M76987
101751	cccctgtcttgttttggcatagtgt	M76987
101752	tgtcttgttttggcatagtgtggtg	M76987
101753	ttttcctattcaaactcacactgtg	M76987
101754	ttcctattcaaactcacactgtgtt	M76987
101755	tattcaaactcacactgtgtttatg	M76987
101756	gtttccaatgagcttctagagcaag	AA163687
101757	ttccaatgagcttctagagcaagca	AA163687
101758	tcttgctaacaacaacacctcgtcc	AA163687
101759	gctaacaacaacacctcgtccagtc	AA163687
101760	taacaacaacacctcgtccagtcat	AA163687
101761	ctcgtccagtcattgtagaaccctg	AA163687
101762	cagtcattgtagaaccctggagcag	AA163687
101763	gtcattgtagaaccctggagcagtt	AA163687
101764	cattgtagaaccctggagcagtttg	AA163687
101765	agaaccctggagcagtttgatgatg	AA163687
101766	aaccctggagcagtttgatgatgaa	AA163687
101767	actcaacagtaccataaggaaagag	AA163687
101768	gcaagcattttcccagtttggccca	AA163687
101769	tcccagtttggcccagtagagaaag	AA163687
101770	ccagtttggcccagtagagaaagct	AA163687
101771	agcgaaacctcctgcacgagaggct	AA163687
101772	aaacctcctgcacgagaggctctgg	AA163687
101773	acctcctgcacgagaggctctggag	AA163687
101774	gcgttcttgctaacaacaacacctc	AA163687
101775	gttcttgctaacaacaacacctcgt	AA163687
101776	cacgtgcctgaatgtccggatcatg	AA163754
101777	caactacacgcctgggaacaaagag	AA163754
101778	agtgcaccagttccttgctaagact	AA163754
101779	ccagttccttgctaagactcagacc	AA163754
101780	gttccttgctaagactcagaccagc	AA163754
101781	ccttgctaagactcagaccagcact	AA163754
101782	taagactcagaccagcactagcttt	AA163754
101783	gactcagaccagcactagctttgag	AA163754
101784	tcagaccagcactagctttgagcac	AA163754
101785	tagctttgagcacgctcacgacatg	AA163754
101786	tgagcacgctcacgacatgagcgtg	AA163754
101787	gcacgctcacgacatgagcgtgatg	AA163754
101788	cctatacctgaagcgtatccagaca	AA163754
101789	gaacgcagctgtcctgagcaatctg	AA163754
101790	atacctgaagcgtatccagacagcc	AA163754
101791	gcgtatccagacagccattctgatc	AA163754
101792	tatccagacagccattctgatcatg	AA163754
101793	gacagccattctgatcatgggccgc	AA163754
101794	gatcatgggccgctacgtggagacg	AA163754
101795	tgacgacgtgccatgtggaaacatt	AA163754
101796	cggagtgcaccagttccttgctaag	AA163754
101797	ccaggcagttctagtggccgatagc	AA163771
101798	agttctagtggccgatagcttcaac	AA163771
101799	tgcgcctggccaacgttgcgctaat	AA163771
101800	tggccaacgttgcgctaattgacta	AA163771

TABLE 1

SEQ ID NO	sequence	DBAxnID
16593	gcagcgaactgtgcctacagcaacc	U46956
16594	aactgtgcctacagcaacccgtgga	U46956
16595	agcatgctgcaggagaccatgaagt	U46956
16596	cgccttgcccaggcagagaactctt	U46956
16597	tcaacatccagaatctagacaaggc	U46956
16598	ttaatggcagtgcaccccgagacct	U46956
16599	ttgaagatgcacttcgggtgccacc	U46956
16600	ccatggctgagcagctgcaagggga	U46956
16601	cgctgctgcagctcaatggtgactt	U46956
16602	tcaatggtgacttcttggtgcgaga	U46956
16603	ttatcttgtgaatctacttagaaaa	W89509
16604	aacacacacaagcaatgttcacaac	W89509
16605	ttcttggcaactgtaatgttttagc	W89509
16606	tgttttagcaccaaatgatctccca	W89509
16607	ttttagcaccaaatgatctcccaca	W89509
16608	ttagcaccaaatgatctcccacaga	W89509
16609	agcaccaaatgatctcccacagagg	W89509
16610	ccaaatgatctcccacagagggact	W89509
16611	atgatctcccacagagggactagta	W89509
16612	gatctcccacagagggactagtaaa	W89509
16613	actagtaaagctggctgccgtgtga	W89509
16614	tagtaaagctggctgccgtgtgagg	W89509
16615	cacacacaagcaatgttcacaacta	W89509
16616	cacaagcaatgttcacaactataaa	W89509
16617	caagcaatgttcacaactataaatt	W89509
16618	aaccacaggcatgaactgtaaacct	W89509
16619	attcttagcagtaattcagttattt	W89509
16620	cagttattttccttcttggcaactg	W89509
16621	tattttccttcttggcaactgtaat	W89509
16622	ttccttcttggcaactgtaatgttt	W89509
16623	tctctttttgacagggtattccaag	W64225
16624	gtattccaaggcgtagaggcgatcc	W64225
16625	atttcatctcgcgagaactgtttga	W64225
16626	tgtttgacacggtccaggtgtacat	W64225
16627	acacggtccaggtgtacatcatcac	W64225
16628	aggtgtacatcatcaccaagcccga	W64225
16629	tgtacatcatcaccaagcccgagtt	W64225
16630	tcaccaagcccgagttacagaacaa	W64225
16631	ccaagcccgagttacagaacaagct	W64225
16632	tacagaacaagctcatcactgtcac	W64225
16633	acaagctcatcactgtcacagccat	W64225
16634	agctcatcactgtcacagccatgga	W64225
16635	attacagacttggatccagacagcg	W64225
16636	acagacttggatccagacagcgcca	W64225
16637	gatccagacagcgccatgggagcag	W64225
16638	aatgtatattcttcagcgagttcca	W64225
16639	tattcttcagcgagttccacccaac	W64225
16640	tcagcgagttccacccaacgctggg	W64225
16641	atcaggtccctgaggatttcatctc	W64225
16642	aggtccctgaggatttcatctcgcg	W64225
16643	aatattctatccctgggttcagaat	L32973
16644	ctatccctgggttcagaatctgggg	L32973
16645	agaatctgttcccaagtaactatat	L32973
16646	ttcaccttgggactatgtataactt	L32973
16647	taaggctctctgtaatgtggcagct	L32973
16648	tgtggcagctaattccacaaagggt	L32973
16649	tcaagcctctctgagatgattgcac	L32973
16650	agcctctctgagatgattgcaccag	L32973
16651	attgcaccagaggctgaataggaag	L32973
16652	gtgctttcttcatgaaacctgacag	L32973
16653	ctttcttcatgaaacctgacagtga	L32973
16654	tcttcatgaaacctgacagtgaata	L32973
16655	tctggggtccattcccagtaccata	L32973
16656	tgaataaacttgctctgacattcct	L32973
16657	aacattccagttcaaatgttgatgc	L32973
16658	atgttgatgcctctctacatcattt	L32973
16659	ttgatgcctctctacatcatttttg	L32973
16660	ctctacatcatttttgatcccacat	L32973

SEQ ID NO:	sequence	DBAxnID
59197	ctttcttctactacaacaaagagag	X64455
59198	tcttctactacaacaaagagaggga	X64455
59199	ctttcttcggcttggcaatgctcct	X64455
59200	tatcctgctgggtgttttcatcttc	X74983
59201	ctgcatctgctacacggcccatttc	X74983
59202	gaactgtgcttggcttcgtctgtaa	X74983
59203	tgcttggcttcgtctgtaagctcgt	X74983
59204	tctgtaagctcgtggccctttgcag	X74983
59205	tggccctttgcagacgggacacggc	X74983
59206	acacggcgtaggatgggctgtctgt	X74983
59207	atctagcacatagcctggaagaatc	X74983
59208	caggcaaagcagccctgagtgtcat	X74983
59209	aagcagccctgagtgtcatctgtgt	X74983
59210	ccctgagtgtcatctgtgttcattg	X74983
59211	gtgtcatctgtgttcattgctaggc	X74983
59212	caacacctacctggttctcatcatg	X74983
59213	tgtcatctgtgttcattgctaggca	X74983
59214	ctacctggttctcatcatgtgcaac	X74983
59215	gctgcgcaacacgttcaaggagatt	X74983
59216	ggagattctctgcggctgcaacagc	X74983
59217	tctctgcggctgcaacagcatgaac	X74983
59218	catgaacttgggctaggatgcccgt	X74983
59219	tgcccgtggaggtgttccacatcca	X74983
59220	tgttccacatccagccaagagacaa	X74983
59221	tcactgtcaaggttgctgatttcgg	Y00671
59222	atttcggtcttgccagagacatgta	Y00671
59223	tgctaaaatgctggcaccccaaagc	Y00671
59224	aactggtctccaggatatcctcaat	Y00671
59225	ggatatcctcaatcttctccacgtt	Y00671
59226	cctcaatcttctccacgttcattgg	Y00671
59227	tccacgtgaacgctacttatgtgaa	Y00671
59228	aatgtgttgctccatatccttctct	Y00671
59229	ttgctccatatccttctctgttgcc	Y00671
59230	cttctctgttgccatcccaagacaa	Y00671
59231	tgttgccatcccaagacaacattga	Y00671
59232	catcccaagacaacattgatggcga	Y00671
59233	gtgccaagctaccagtaaagtggat	Y00671
59234	gtgtgctcctctgggagctcatgac	Y00671
59235	tcctctgggagctcatgacgagagg	Y00671
59236	ttgatatcactatctacctgttgca	Y00671
59237	tcactatctacctgttgcaaggcag	Y00671
59238	gaagactcttgcaaccagaatactg	Y00671
59239	tcttgcaaccagaatactgtccaga	Y00671
59240	gtccagacgccttgtacgaagtgat	Y00671
59241	caccgaggctccacctaaagagcca	X00496
59242	ggctccacctaaagagccactggac	X00496
59243	gtctgtttcatcgtcccaggacacg	X00496
59244	gtcccaggacacggcaaatgaagtc	X00496
59245	ggccttgctggcaccgcatctaaag	X00496
59246	ttctgacccattagtagtcttgaat	X00496
59247	cttgaatgtggggctctgagataaa	X00496
59248	aggcccgcagacagggacaagggat	X00496
59249	acacatttgctgccttctcctcaag	X00496
59250	ttgctgccttctcctcaaggaagaa	X00496
59251	cagccaagcttgtcagcagcctgta	X00496
59252	agcttgtcagcagcctgtaggatca	X00496
59253	catggaagacctatcttctggcctg	X00496
59254	tcaagtcaccctgtgaagacagagg	X00496
59255	acagaggccagctctgcacagcagc	X00496
59256	tgtgcctcagcccttcttatgttcc	X00496
59257	tcagcccttcttatgttccctgatg	X00496
59258	cttcttatgttccctgatgtcacac	X00496
59259	cttgagactggtgtctgtttcatcg	X00496
59260	actggtgtctgtttcatcgtcccag	X00496
59261	tacaaccacatgcttcgcagaagaa	W89849
59262	acaaccacatgcttcgcagaagaag	W89849
59263	cagcggcgaggactggcggtcaata	W89849
59264	ggttccttagagctcttacgatctg	W89849

SEQ ID NO:	sequence	DBAxnID
101801	caacgttgcgctaattgactatact	AA163771
101802	aattgactatactctggagttcctg	AA163771
101803	ttgactatactctggagttcctgac	AA163771
101804	ctatactctggagttcctgactgcc	AA163771
101805	atactctggagttcctgactgccac	AA163771
101806	tctggagttcctgactgccacgggt	AA163771
101807	tggagttcctgactgccacgggtgt	AA163771
101808	ctgccacgggtgtacaggaaacatt	AA163771
101809	ttctagtggccgatagcttcaaccg	AA163771
101810	tggccgatagcttcaaccgccgctt	AA163771
101811	ccatctccaaggaccagcctcgggt	AA163771
101812	ggaccagcctcgggtcctcttgcgc	AA163771
101813	ctcgggtcctcttgcgcctggccaa	AA163771
101814	ggtcctcttgcgcctggccaacgtt	AA163771
101815	tcctcttgcgcctggccaacgttgc	AA163771
101816	cttgcgcctggccaacgttgcgcta	AA163771
101817	tgacaaccttcgtgaactgcacttg	AA163900
101818	gacaaccttcgtgaactgcacttga	AA163900
101819	gcccagcgtgccatcacaacgtctg	AA163900
101820	ccagcgtgccatcacaacgtctgat	AA163900
101821	cagcgtgccatcacaacgtctgatg	AA163900
101822	tgccatcacaacgtctgatgtaacc	AA163900
101823	gccatcacaacgtctgatgtaacct	AA163900
101824	atcacaacgtctgatgtaacctcaa	AA163900
101825	cacaacgtctgatgtaacctcaaga	AA163900
101826	acaacgtctgatgtaacctcaagag	AA163900
101827	acgtctgatgtaacctcaagagtta	AA163900
101828	gtctgatgtaacctcaagagttacg	AA163900
101829	caaccttcgtgaactgcacttgacg	AA163900
101830	tctgatgtaacctcaagagttacgt	AA163900
101831	ccttcgtgaactgcacttgacgggc	AA163900
101832	cttcgtgaactgcacttgacgggcg	AA163900
101833	cgtgaactgcacttgacgggcgagt	AA163900
101834	tgaactgcacttgacgggcgagttt	AA163900
101835	atccaagcccagcgtgccatcacaa	AA163900
101836	caagcccagcgtgccatcacaacgt	AA163900
101837	agcccagcgtgccatcacaacgtct	AA163900
101838	caagggcgcacgatcatcttctgtg	AA163902
101839	gggcgcacgatcatcttctgtgaaa	AA163902
101840	atggcgacattccacagaagcaaag	AA163902
101841	acattccacagaagcaaagggaaat	AA163902
101842	ccaatgttgctgcccgtgggttaga	AA163902
101843	atgttgctgcccgtgggttagacat	AA163902
101844	ggttagacatccctgaggttgactt	AA163902
101845	acatccctgaggttgacttggttgt	AA163902
101846	tccctgaggttgacttggttgttca	AA163902
101847	tggttgttcagagctgcccaccaaa	AA163902
101848	ttcagagctgcccaccaaaggatgt	AA163902
101849	agtcttacattcatcgttcggggcg	AA163902
101850	atcatcttctgtgaaaccaagaagg	AA163902
101851	gatgcccaggagctatctcagaaca	AA163902
101852	ctatctcagaacacgtgcataaagc	AA163902
101853	tctcagaacacgtgcataaagcagg	AA163902
101854	caggatgccagtccttacatggcga	AA163902
101855	gatgccagtccttacatggcgacat	AA163902
101856	gccagtccttacatggcgacattcc	AA163902
101857	tacatggcgacattccacagaagca	AA163902
101858	gagaaactctcagcagtggtacaca	M74570
101859	ctctcagcagtggtacacatctcct	M74570
101860	ttccattgtagctacttatctaaca	M74570
101861	tctaacatactcatttggtgaggag	M74570
101862	gctctgtccctcagtgactccttga	M74570
101863	aagtactcaccacacataatgactg	M74570
101864	tcaccacacataatgactgcagagt	M74570
101865	atgactgcagagtcagctgctctgt	M74570
101866	tcagctgctctgttccccaggtgtt	M74570
101867	atattttctagaatgtcatgcctgc	M74570
101868	atgtcatgcctgcttgtcaaatgaa	M74570

TABLE 1

SEQ ID NO	sequence	DBAxnID
16661	tacatcatttttgatcccacatccc	L32973
16662	atttttgatcccacatcccatttct	L32973
16663	acatcccatttcttaagaagaatct	L32973
16664	ctctgaccattggagccagaatctg	W59444
16665	gaatctgtcccagttctttccggag	W59444
16666	gtggcctacctcatgcagaagcttc	W59444
16667	tacctcatgcagaagcttcacctct	W59444
16668	atgcagaagcttcacctctcactca	W59444
16669	tcactcaacgatgcctacgacttgg	W59444
16670	aacgatgcctacgacttggtcaagc	W59444
16671	gcctacgacttggtcaagcggaaga	W59444
16672	tacgacttggtcaagcggaagaagt	W59444
16673	cagctgctagactttgaacgcagcc	W59444
16674	ctgctagactttgaacgcagcctgc	W59444
16675	tttgaacgcagcctgcgcctagggg	W59444
16676	gtcccagttctttccggagccattg	W59444
16677	tccggagccattgcattcattgatg	W59444
16678	attgatgaggccttgtcgcagaact	W59444
16679	cgctctgtcactgtcaccgtggcct	W59444
16680	tctgtcactgtcaccgtggcctacc	W59444
16681	gtcactgtcaccgtggcctacctca	W59444
16682	gtcaccgtggcctacctcatgcaga	W59444
16683	accgtggcctacctcatgcagaagc	W59444
16684	tgagtctctgagcttagatcttacc	U16958
16685	gtctctgagcttagatcttacccac	U16958
16686	gctatcctatcagagactgggctct	U16958
16687	ctcttgtctctcctatcagactgag	U16958
16688	ttgtctctcctatcagactgagact	U16958
16689	ctcctatcagactgagactttggga	U16958
16690	ctatcagactgagactttgggaaga	U16958
16691	actgtgtctctgtcagacagggcag	U16958
16692	tctctgtcagacagggcaggaggat	U16958
16693	ctgtcagacagggcaggaggatgca	U16958
16694	ggatgcacctggtaactgggcacaa	U16958
16695	tgcacctggtaactgggcacaatac	U16958
16696	gctggacactactgctccctggggc	U16958
16697	agccagctgggcccagaactcacga	U16958
16698	cagctgggcccagaactcacgatcc	U16958
16699	cctcagtgctccttgttcaaagtgg	U16958
16700	gtatgtgatctgcctcttgtaaatg	U16958
16701	tgtgatctgcctcttgtaaatggag	U16958
16702	gatctgcctcttgtaaatggagcta	U16958
16703	aatggagctatcctatcagagactg	U16958
16704	gcactacgagatgcccggagctgct	W59466
16705	cgagatgcccggagctgctgtggcc	W59466
16706	atcaccaaaatggacgtcagcaacc	W59466
16707	gacgtcagcaacctggctatggtga	W59466
16708	agcaacctggctatggtgatggcac	W59466
16709	atggtgatggcacccaactgcctgc	W59466
16710	gatgatcctcgcgtcatcttcgaga	W59466
16711	cctcgcgtcatcttcgagaatacac	W59466
16712	gtcatcttcgagaatacacgaaagg	W59466
16713	gagatgtccttccttcgagtgctca	W59466
16714	tccttccttcgagtgctcattcagc	W59466
16715	cttcgagtgctcattcagcatttag	W59466
16716	aaccgaatggtgctgtgctacctca	W59466
16717	catttagataccagcttcatggagg	W59466
16718	atggtgctgtgctacctcattcgct	W59466
16719	tacctcattcgcttcctccaggtgt	W59466
16720	attcgcttcctccaggtgttcgtgc	W59466
16721	ttcctccaggtgttcgtgcagccag	W59466
16722	ttcgtgcagccagccaacgtagcca	W59466
16723	gccaacgtagccatcaccaaaatgg	W59466
16724	gtagccatcaccaaaatggacgtca	W59466
16725	aactggcaccgacgcaagcatgcag	W59487
16726	gagacagcagctgccctgcgattcc	W59487
16727	ccagcacaagagccacctggctcta	W59487
16728	ccacctggctctattggtgtctagt	W59487

SEQ ID NO:	sequence	DBAxnID
59265	gttccttagagctcttacgatctgc	W89849
59266	tccttagagctcttacgatctgcgc	W89849
59267	ccttagagctcttacgatctgcgct	W89849
59268	ttagagctcttacgatctgcgcttt	W89849
59269	tagagctcttacgatctgcgctttt	W89849
59270	agctcttacgatctgcgcttttgt	W89849
59271	ctcttacgatctgcgcttttgtgg	W89849
59272	tcttacgatctgcgcttttgtggt	W89849
59273	aaccacatgcttcgcagaagaagaa	W89849
59274	accacatgcttcgcagaagaagaac	W89849
59275	cacatgcttcgcagaagaagaacct	W89849
59276	acatgcttcgcagaagaagaacctc	W89849
59277	agtataacagcggcgaggactggcg	W89849
59278	ataacagcggcgaggactggcggtc	W89849
59279	taacagcggcgaggactggcggtca	W89849
59280	acagcggcgaggactggcggtcaat	W89849
59281	agcacaggagccagtttcatatttg	X53042
59282	taggtcttaccgacagggatggctc	X53042
59283	tgaaccgctgggtatgcgaaaagag	X53042
59284	gacggaacatcacccactaggagtc	X53042
59285	ggaacatcacccactaggagtcggc	X53042
59286	ccaacatcctcactggggatactgg	X53042
59287	acatcctcactggggatactggagc	X53042
59288	catggctctatggtctcatacctta	X53042
59289	atggtctcatacctaggaagactg	X53042
59290	tcataccttaggaagactgagaatc	X53042
59291	ttctgcacaatttattgcaattgtt	X53042
59292	tttcggccttctgaatggagtagga	X53042
59293	gtcttaccgacagggatggctcctg	X53042
59294	ccgacagggatggctcctggaaatg	X53042
59295	gggccttcactcagccagataactg	X53042
59296	ccttcactcagccagataactggca	X53042
59297	ctgaaatcctgtcagatggccattg	X53042
59298	aaatcctgtcagatggccattggaa	X53042
59299	atgacaacttctgccagcaggtgaa	X53042
59300	acttctgccagcaggtgaaccgctg	X53042
59301	gtgttcagctcagacttccaggagt	W89863
59302	ttcagctcagacttccaggagtttg	W89863
59303	cacacccacgcggactgcagtgtga	W89863
59304	acccacgcggactgcagtgtgacag	W89863
59305	cacgcggactgcagtgtgacagcag	W89863
59306	agtgtgacagcagcgccacagtctg	W89863
59307	gtgacagcagcgccacagtctgtgt	W89863
59308	gcagcgccacagtctgtgtccttgt	W89863
59309	ccacagtctgtgtccttgtccctgt	W89863
59310	cagtctgtgtccttgtccctgtcgg	W89863
59311	tccctgtcggcacagtggccgctgc	W89863
59312	ctgcctctggggacagtgatgctgt	W89863
59313	tcagacttccaggagtttgtgaata	W89863
59314	tgtctcattaagaacccagcagaca	W89863
59315	ctcattaagaacccagcagacacgc	W89863
59316	aacccagcagacacgcagatctgaa	W89863
59317	ccagcagacacgcagatctgaagct	W89863
59318	gcagacacgcagatctgaagctgct	W89863
59319	tggacttcgccggctgctgtgcaga	W89863
59320	tcgccggctgctgtgcagaaccctg	W89863
59321	ggcctcactgacagctgtggtgatc	W89667
59322	actgacagctgtggtgatccactgg	W89667
59323	cccaggtgctgcaggacacttgaga	W89667
59324	caggtgctgcaggacacttgagaga	W89667
59325	ccagggcactctgtactccttcaag	W89667
59326	ggcactctgtactccttcaaggctt	W89667
59327	ctctgtactccttcaaggcttgccg	W89667
59328	ctgtactccttcaaggcttgccggg	W89667
59329	gtactccttcaaggcttgccgggct	W89667
59330	actccttcaaggcttgccgggctct	W89667
59331	tccttcaaggcttgccgggctctgc	W89667
59332	cttcaaggcttgccgggctctgctg	W89667

SEQ ID NO:	sequence	DBAxnID
101869	aatgcctagctgtaattagaacgca	M74570
101870	atctcctatagtaaccagcatagtc	M74570
101871	attcatcagtgttactgtcactcat	M74570
101872	tggcttaatccaacagattcattca	M74570
101873	acagattcattcaccttctaatatg	M74570
101874	tataacggcaagctctctgtaactc	M74570
101875	ggcaagctctctgtaactccgtcat	M74570
101876	ctctctgtaactccgtcatgaccag	M74570
101877	tgaccaggtgctttccattgtagct	M74570
101878	ttaagtccttactgaaccatgacct	AA163988
101879	actgaaccatgacctaaaactgact	AA163988
101880	attccagaacttgcagctcgtgttg	AA163988
101881	tccagaacttgcagctcgtgttgat	AA163988
101882	cagaacttgcagctcgtgttgatat	AA163988
101883	gaacttgcagctcgtgttgatatac	AA163988
101884	ttgcagctcgtgttgatatacttag	AA163988
101885	cacttacctccagcctgatggaagc	AA163988
101886	cttacctccagcctgatggaagctt	AA163988
101887	cctccagcctgatggaagcttggga	AA163988
101888	tccagcctgatggaagcttgggaag	AA163988
101889	aagtagaaccagctatggtgacagc	AA163988
101890	tgaaccatgacctaaaactgactaa	AA163988
101891	agaaccagctatggtgacagcttca	AA163988
101892	attaacattgctgacttaatggaag	AA163988
101893	taacattgctgacttaatggaagaa	AA163988
101894	acattgctgacttaatggaagaaaa	AA163988
101895	agttcccagaggatgctggattgag	AA163988
101896	ttcccagaggatgctggattgagca	AA163988
101897	gaagacattccagaacttgcagctc	AA163988
101898	agacattccagaacttgcagctcgt	AA163988
101899	tttcagttgggcagcaagttgctgc	W09025
101900	aagttgctgcaagttgcttattcaa	W09025
101901	tttaattccataggtagccattccg	W09025
101902	tccataggtagccattccggaagag	W09025
101903	agccattccggaagagttcttcaca	W09025
101904	agagttcttcacatatactagttcc	W09025
101905	gttcttcacatatactagttcccaa	W09025
101906	cttcacatatactagttcccaatta	W09025
101907	cacatatactagttcccaattaact	W09025
101908	tactagttcccaattaactctctct	W09025
101909	tagttcccaattaactctctctggg	W09025
101910	ttcccaattaactctctctgggtat	W09025
101911	tatgatcagataactccgcatacag	W09025
101912	ccaattaactctctctgggtatcac	W09025
101913	gatcagataactccgcatacagagc	W09025
101914	cagataactccgcatacagagcaag	W09025
101915	ataactccgcatacagagcaaggat	W09025
101916	actccgcatacagagcaaggatcag	W09025
101917	tcagaaataccttaccgggcaatag	W09025
101918	ttaagccactaagttgaccttgatc	W09025
101919	agccactaagttgaccttgatcaat	W09025
101920	aagattcctgtagacatgtgcagag	AA164143
101921	gattcctgtagacatgtgcagagag	AA164143
101922	tgcagtgacctcatcttcaacgatg	AA164143
101923	cagtgacctcatcttcaacgatgcc	AA164143
101924	gacctcatcttcaacgatgcccagg	AA164143
101925	atcttcaacgatgcccaggcctagt	AA164143
101926	tcaacgatgcccaggcctagtttaa	AA164143
101927	cgatgcccaggcctagtttaatcat	AA164143
101928	atgcccaggcctagtttaatcatgc	AA164143
101929	tttaatcatgcggtagatgcggttc	AA164143
101930	taatcatgcggtagatgcggttcga	AA164143
101931	atcatgcggtagatgcggttcgagt	AA164143
101932	ttcctgtagacatgtgcagagagcc	AA164143
101933	gaggctttaatccacctcttccatg	AA164143
101934	ggctttaatccacctcttccatggg	AA164143
101935	ggggcatcctcatcgccttccagag	AA164143
101936	ggatctcatcaggaacaggagcact	AA164143

TABLE 1

SEQ ID NO	sequence	DBAxnID
16729	cctggctctattggtgtctagtccc	W59487
16730	ggctctattggtgtctagtcccagc	W59487
16731	attggtgtctagtcccagcatttct	W59487
16732	ggtgtctagtcccagcatttctgcc	W59487
16733	gtctagtcccagcatttctgcccct	W59487
16734	cagcatttctgcccctgaatccctg	W59487
16735	ccctgaatccctgcagtctcctgag	W59487
16736	tgaatccctgcagtctcctgagggg	W59487
16737	gctgccctgcgattcccctgtgaat	W59487
16738	gccctgcgattcccctgtgaattct	W59487
16739	ctgcgattcccctgtgaattctgtg	W59487
16740	ttcccctgtgaattctgtggcaaac	W59487
16741	ttctgtggcaaacgctttgagaagc	W59487
16742	agtgtggtagctcactgtagcaaaa	W59487
16743	gtagctcactgtagcaaaagccacc	W59487
16744	gctcactgtagcaaaagccacccag	W59487
16745	tgcgactcggcagtcacagtatgcc	W59472
16746	atgccgtgacatgcatggacaattc	W59472
16747	actgctcgtgggagactttgtggac	W59472
16748	ggagactttgtggaccgtggtatct	W59472
16749	tgaaaacgttctcctccgagcggag	W59472
16750	ttctcctccgagcggagtcttaagg	W59472
16751	aggttcaggatcgtgacggaatcac	W59472
16752	cggaatcacttttgatgcggggcaa	W59472
16753	gaatcacttttgatgcggggcaatc	W59472
16754	atcacttttgatgcggggcaatcat	W59472
16755	cttttgatgcggggcaatcatgaga	W59472
16756	tttgatgcggggcaatcatgagact	W59472
16757	ctatgacctcaaggagctgatcaga	W59472
16758	atgacctcaaggagctgatcagagt	W59472
16759	gacctcaaggagctgatcagagtaa	W59472
16760	taagtggcgatgtccctgagaccaa	W59472
16761	gcgatgtccctgagaccaactaact	W59472
16762	cctgagaccaactaactgctcgtgg	W59472
16763	accaactaactgctcgtgggagact	W59472
16764	actaactgctcgtgggagactttgt	W59472
16765	taatccggcgtcaaggcgccaaaat	X97982
16766	agatccgtcagatgtctggggcgca	X97982
16767	ttagcctggctcagtatctaatcaa	X97982
16768	agtatctaatcaatgtcaggctttc	X97982
16769	agaacagagcagacccatccataat	X97982
16770	gagcagacccatccataatcctgct	X97982
16771	ttctgaacagtcagcgactccaggt	X97982
16772	agtttctacacactttatcatccac	X97982
16773	tacacactttatcatccactcatga	X97982
16774	tttaattcctttctctgttcagcag	X97982
16775	ctctgttcagcagttacgctgagat	X97982
16776	tcagcagttacgctgagatatccat	X97982
16777	gtcagatgtctggggcgcagatcaa	X97982
16778	tgtctggggcgcagatcaaaattgc	X97982
16779	aaggatctactgatcggcaggttac	X97982
16780	atcggcaggttaccatcactggatc	X97982
16781	aggttaccatcactggatctgctgc	X97982
16782	ccatcactggatctgctgccagcat	X97982
16783	ctggatctgctgccagcattagcct	X97982
16784	ccagcattagcctggctcagtatct	X97982
16785	cctggctatgtcagtgggacagaag	L28060
16786	cactatgagctgcaagtccagtcag	L28060
16787	tgatcgtttcataggcagcggatct	L28060
16788	tcgtttcataggcagcggatctggg	L28060
16789	tttcataggcagcggatctgggaca	L28060
16790	gacagatttcgctcttaccatccgc	L28060
16791	ccgcagtgtgcaggctgaagacctg	L28060
16792	agacctggcagattacttctgtcag	L28060
16793	agattacttctgtcagcaacattat	L28060
16794	ttacttctgtcagcaacattatacc	L28060
16795	tcagcaacattataccactccgtgg	L28060
16796	gcaacattataccactccgtggacg	L28060

SEQ ID NO	sequence	DBAxnID
59333	aagaggcagctgagcgcttgtaccc	W89667
59334	ttcaaggcttgccgggctctgctgg	W89667
59335	cagctgagcgcttgtacccactggt	W89667
59336	cgcttgtacccactggtagagcata	W89667
59337	cttgtacccactggtagagcatatc	W89667
59338	tacccactggtagagcatatccccc	W89667
59339	gcatatcccccaggtgctgcaggac	W89667
59340	atatcccccaggtgctgcaggacac	W89667
59341	cccccaggtgctgcaggacacttga	W89667
59342	gggagctctccgttttatcttcatc	W89738
59343	ggagctctccgttttatcttcatcc	W89738
59344	agcgctgcgccgtgtcctttacgac	W89738
59345	tcttcccacggatgtgatcttcgtg	W89738
59346	tttctaaactaccccaatggatgca	W89738
59347	ttctaaactaccccaatggatgcag	W89738
59348	ctaaactaccccaatggatgcagac	W89738
59349	taaactaccccaatggatgcagaca	W89738
59350	aactaccccaatggatgcagacagt	W89738
59351	actaccccaatggatgcagacagtg	W89738
59352	taccccaatggatgcagacagtgat	W89738
59353	accccaatggatgcagacagtgatg	W89738
59354	agctctccgttttatcttcatcctt	W89738
59355	ttttatcttcatccttgtcctccag	W89738
59356	tttatcttcatccttgtcctccagc	W89738
59357	tatcttcatccttgtcctccagctt	W89738
59358	atcttcatccttgtcctccagcttc	W89738
59359	cttcatccttgtcctccagcttctt	W89738
59360	ttcatccttgtcctccagcttcttc	W89738
59361	agcagcagcgctgcgccgtgtcctt	W89738
59362	ttacaggttacatcatctattacag	W89821
59363	gttacatcatctattacagcacgga	W89821
59364	ttgatacgccatactacttcaaaat	W89821
59365	atacgccatactacttcaaaatcca	W89821
59366	catactacttcaaaatccaggcccg	W89821
59367	tccaggcccggaactcaaagggcat	W89821
59368	ggaactcaaagggcatggggcccat	W89821
59369	gcatggggcccatgtctgaagctgt	W89821
59370	ggcccatgtctgaagctgtacagtt	W89821
59371	tacagttcagaacacctaaagcctt	W89821
59372	cacctaaagccttagggtcagcagg	W89821
59373	gaagccgactaccagacctgggatc	W89821
59374	tcatctattacagcacggatgtgaa	W89821
59375	gactaccagacctgggatctgacta	W89821
59376	tctattacagcacggatgtgaatgc	W89821
59377	attacagcacggatgtgaatgcaga	W89821
59378	acagactgactcaccagattcaaga	W89821
59379	tgactcaccagattcaagagttaac	W89821
59380	ctcaccagattcaagagttaacact	W89821
59381	agttaacacttgatacgccatacta	W89821
59382	cacttgatacgccatactacttcaa	W89821
59383	gattcgttgtgacctggagcggcag	X65506
59384	ttgtgacctggagcggcagaaccat	X65506
59385	gagcagccaccagagggcctaggcc	X65506
59386	ccaccagagggcctaggccacagga	X65506
59387	gacaccttgtggttcttggcagcta	X65506
59388	aaatgatcttgcacttctctagggc	X65506
59389	ctagggccctccttgcttatcaggt	X65506
59390	ttgcttatcaggtttttctactcaa	X65506
59391	atcaggtttttctactcaaattcat	X65506
59392	aactgtgctttttacgccatgcaaa	X65506
59393	gctttttacgccatgcaaaaccagg	X65506
59394	atattcccaataaagtgttctcttg	X65506
59395	tgagtatcaggtgttactggatgtc	X65506
59396	ccacccttgttccacggaatgcaag	X65506
59397	ttgttccacggaatgcaagcctgct	X65506
59398	aagtcagcacccagatccggaccat	X65506
59399	agatccggaccatcaccgaggagat	X65506
59400	ggaccatcaccgaggagatcaggga	X65506

SEQ ID NO	sequence	DBAxnID
101937	atctcatcaggaacaggagcactgg	AA164143
101938	ggctcctctgcagtgacctcatctt	AA164143
101939	cctctgcagtgacctcatcttcaac	AA164143
101940	tgacaagcagcaagccaacaccatc	AA096645
101941	caagcagcaagccaacaccatcttc	AA096645
101942	cagactgcaccgtcatgaacattgc	AA096645
101943	actgcaccgtcatgaacattgcaga	AA096645
101944	gcaccgtcatgaacattgcagacac	AA096645
101945	tgaacattgcagacactacatggcc	AA096645
101946	acattgcagacactacatggcctcc	AA096645
101947	ttgcagacactacatggcctccgat	AA096645
101948	cagacactacatggcctccgatgtt	AA096645
101949	ctacatggcctccgatgttgaatgg	AA096645
101950	catggcctccgatgttgaatgggac	AA096645
101951	ggcctccgatgttgaatgggaccca	AA096645
101952	gcagcaagccaacaccatcttctgg	AA096645
101953	caacaccatcttctggagtccccag	AA096645
101954	caccatcttctggagtccccagggg	AA096645
101955	gagcatgaacggtgccttggcgtta	AA096645
101956	gttatgtcgacacttcagactgcac	AA096645
101957	atgtcgacacttcagactgcaccgt	AA096645
101958	tcgacacttcagactgcaccgtcat	AA096645
101959	acacttcagactgcaccgtcatgaa	AA096645
101960	taggaccattgagcgcatggagaaa	AA166577
101961	ggaccattgagcgcatggagaaacg	AA166577
101962	cccagctatgctataggcagagttg	AA166577
101963	gagcagtgccaaatcccaacaaagt	AA166577
101964	gcagtgccaaatcccaacaaagtgc	AA166577
101965	agtgccaaatcccaacaaagtgctg	AA166577
101966	tgccaaatcccaacaaagtgctgag	AA166577
101967	ccaaatcccaacaaagtgctgagct	AA166577
101968	aaatcccaacaaagtgctgagctgt	AA166577
101969	atcccaacaaagtgctgagctgtga	AA166577
101970	cccaacaaagtgctgagctgtgata	AA166577
101971	tgatatgaactacacctcaaaacgt	AA166577
101972	aaacgcaatcattccacagagtgcc	AA166577
101973	acgcaatcattccacagagtgcccc	AA166577
101974	gcaatcattccacagagtgccccaa	AA166577
101975	aatcattccacagagtgccccaagc	AA166577
101976	cacagagtgccccaagcccagctat	AA166577
101977	gtgccccaagcccagctatgctata	AA166577
101978	gccccaagcccagctatgctatagg	AA166577
101979	agcccagctatgctataggcagagt	AA166577
101980	cgaggccaggagcttgcctttccgc	AA166580
101981	cttgcctttccgctgagtccagatt	AA166580
101982	ggggccttccagcatgtgggcaaac	AA166580
101983	gccttccagcatgtgggcaaaccttt	AA166580
101984	ttccagcatgtgggcaaaccttcaa	AA166580
101985	gtgggcaaaccttcaatcagggcaa	AA166580
101986	ggcaaaccttcaatcagggcaagat	AA166580
101987	aaaccttcaatcagggcaagatctt	AA166580
101988	ccttcaatcagggcaagatcttcaa	AA166580
101989	tcttcaagtgaacatctcttgccat	AA166580
101990	agtgaacatctcttgccatcaccta	AA166580
101991	gaacatctcttgccatcacctagct	AA166580
101992	gcctttccgctgagtccagattggc	AA166580
101993	tttccgctgagtccagattggcagg	AA166580
101994	agtccagattggcaggtggactacg	AA166580
101995	tacgagtcatacacatggcggaaac	AA166580
101996	gagtcatacacatggcggaaactgg	AA166580
101997	tcatacacatggcggaaactggatc	AA166580
101998	tacacatggcggaaactggatcctg	AA166580
101999	gagacccagacgctggttcgagagt	AA166580
102000	tcgattgaagccgagcccacaaaga	AA165758
102001	cgattgaagccgagcccacaaagat	AA165758
102002	tgttgcccgtaagccggtcctcatc	AA165758
102003	ttgcccgtaagccggtcctcatcgg	AA165758
102004	tgcccgtaagccggtcctcatcggg	AA165758

TABLE 1

SEQ ID NO	sequence	DBAxnID
16797	gagctgcaagtccagtcagagcctt	L28060
16798	ctatttggcctggtatcagcagaaa	L28060
16799	acagtctcctaaacttctattatat	L28060
16800	atattttgcatccactagggaatct	L28060
16801	ttttgcatccactagggaatctggg	L28060
16802	tagggaatctggggtccctgatcgt	L28060
16803	atctggggtccctgatcgtttcata	L28060
16804	tggggtccctgatcgtttcataggc	L28060
16805	atattccaaggtactgaccatattg	W59508
16806	ttccaaggtactgaccatattgatc	W59508
16807	atatttccgtcagaatctgagagag	W59508
16808	agtcaagccagagatctgttatcaa	W59508
16809	atgctagtgattgctccagacaagc	W59508
16810	ctagtgattgctccagacaagcgga	W59508
16811	gtgattgctccagacaagcggatct	W59508
16812	attgctccagacaagcggatctctg	W59508
16813	ccagacaagcggatctctgtggacg	W59508
16814	gacaagcggatctctgtggacgaag	W59508
16815	aagcggatctctgtggacgaagcct	W59508
16816	cggatctctgtggacgaagccttgc	W59508
16817	cagctaggaacaccatccgcagagt	W59508
16818	ctaggaacaccatccgcagagttca	W59508
16819	acaccatccgcagagttcatgaaga	W59508
16820	ccatccgcagagttcatgaagaaac	W59508
16821	cttcagccaactgtaaggaattatg	W59508
16822	gaagagctctttccagattggatat	W59508
16823	gagctctttccagattggatatttc	W59508
16824	ctctttccagattggatatttccgt	W59508
16825	tagaagttctcaggagctggtggag	W59509
16826	cgctgagagtctctaagcgggcgct	W59509
16827	gatgagatcatcgactcttgactga	W59509
16828	tcttgactgactcggcgccgacaga	W59509
16829	actgactcggcgccgacagatctgc	W59509
16830	ctgactcggcgccgacagatctgct	W59509
16831	actcggcgccgacagatctgctggt	W59509
16832	cggcgccgacagatctgctggtatc	W59509
16833	gcgccgacagatctgctggtatcag	W59509
16834	ccgacagatctgctggtatcagaag	W59509
16835	catgaacgacgctctgcttctggaa	W59509
16836	cctgactctactcgcttgctgaaag	W59509
16837	tgagagtctctaagcgggcgctgat	W59509
16838	ctgactctactcgcttgctgaaagt	W59509
16839	gagtctctaagcgggcgctgatagt	W59509
16840	gtctctaagcgggcgctgatagtgc	W59509
16841	tctaagcgggcgctgatagtgcgct	W59509
16842	atagtgcgctggtgtgtagaactcg	W59509
16843	tagtgcgctggtgtgtagaactcgc	W59509
16844	ctctcgctcgtgtgagatgagatca	W59509
16845	ctcgctcgtgtgagatgagatcatc	W59509
16846	tatacattcactgaccactggatac	L28059
16847	acattcactgaccactggatacact	L28059
16848	ctctcttctattcagcttaaataga	L28059
16849	tcttctattcagcttaaatagattt	L28059
16850	tatctgaatttcaggtcatgaagga	L28059
16851	atgcagacagacatcctcagctccc	L28059
16852	cagacagacatcctcagctcccaga	L28059
16853	acagacatcctcagctcccagactt	L28059
16854	ctcagctcccagacttcatggccag	L28059
16855	agctcccagacttcatggccagaga	L28059
16856	tcccagacttcatggccagagattt	L28059
16857	cagacttcatggccagagatttata	L28059
16858	actgaccactggatacactgggtga	L28059
16859	agacttcatggccagagatttatag	L28059
16860	gaccactggatacactgggtgaaac	L28059
16861	aggcctggacaaggccttgaatgga	L28059
16862	cctggacaaggccttgaatggatcg	L28059
16863	gatagttatactacctacaatcata	L28059
16864	agttatactacctacaatcataaat	L28059

SEQ ID NO:	sequence	DBAxnID
59401	tctcctccagggagcacgtggtgcc	X65506
59402	caatgtgagcagccaccagagggcc	X65506
59403	gcagttcgatcactggaacgtggtt	U01213
59404	tctggacaagcccggcaaggtcacc	U01213
59405	tgccaacctaaaggcctctgtggtg	U01213
59406	ggcctctgtggtgtttaaccagctc	U01213
59407	ctgatgacagccctggctgccctac	U01213
59408	cctcatgtgtatttgggggacattc	U01213
59409	gtgctcatcttggccagagttcccc	U01213
59410	cagtgatgtcccatggctccgtagt	U01213
59411	tgtcccatggctccgtagtctagat	U01213
59412	atggctccgtagtctagatctagaa	U01213
59413	tctagaagccggatgctgctactat	U01213
59414	agccggatgctgctactatagactg	U01213
59415	cggcaaggtcaccatcacgggcacc	U01213
59416	cctcatgacacgccagctgctggac	U01213
59417	cgccatcttctggcgcaaggaagac	U01213
59418	ctccgacgccatggattggaatgag	U01213
59419	gcgcctttctgatctggccaagatc	U01213
59420	tctggccaagatccgcaaggtcatg	U01213
59421	caagatccgcaaggtcatgtatttc	U01213
59422	ggtcatgtatttcctcatcaccttt	U01213
59423	gcccatgtcctcctgaagattctcc	X65505
59424	gtcctcctgaagattctcctaattc	X65505
59425	cacacagtccttggtggccccaggg	X65505
59426	gttcgtccgggccatttctcttatg	X65505
59427	atctgcggtatgtgggtctgccaag	X65505
59428	tgggtctgccaagtaggtggagttc	X65505
59429	ctttagctccatgtgccttgttctt	X65505
59430	ctccatgtgccttgttcttgtggtg	X65505
59431	gtgccttgttcttgtggtgatgata	X65505
59432	atgaggcccaactctgtgccctgtg	X65505
59433	cccaactctgtgccctgtggttgca	X65505
59434	tctgcaaactctgggagtctggggg	X65505
59435	ctgaagattctcctaattcctttct	X65505
59436	tcaataaacttgccaagctaacttc	X65505
59437	tcagctccagccacagtaaatgtat	X65505
59438	atgagcacagacccctaagatctgc	X65505
59439	acagacccctaagatctgcaggcat	X65505
59440	gatctgcaggcatccttagcccatc	X65505
59441	caggcatccttagcccatcttgtcc	X65505
59442	cttccctggcagaagatgcttcatc	X65505
59443	gaccccaaagggcacacagtccttg	X65505
59444	caactataggctgctaaggaccatc	W90839
59445	caacttcgccaaagtcaagctggct	W90839
59446	ctgaaccccagtagcttgcagaagc	W90839
59447	agcttgcagaagctgttcagagaag	W90839
59448	caccccaacatcgtgaagcttttg	W90839
59449	aacatcgtgaagctttttgaggtga	W90839
59450	aagacgctatacctggtgatggaat	W90839
59451	acgctatacctggtgatggaatacg	W90839
59452	ctatacctggtgatggaatacgcta	W90839
59453	atggaatacgctagcgcaggagaag	W90839
59454	tacgctagcgcaggagaagtgtttg	W90839
59455	gtgtttgactacctcgtgtcgcacg	W90839
59456	cttcgccaaagtcaagctggctcgg	W90839
59457	agtcaagctggctcggcatatcctc	W90839
59458	caagctggctcggcatatcctcacg	W90839
59459	gctggctcggcatatcctcacgggc	W90839
59460	attgataagacccagctgaacccca	W90839
59461	gataagacccagctgaaccccagta	W90839
59462	acccagctgaaccccagtagcttgc	W90839
59463	cagctgaaccccagtagcttgcaga	W90839
59464	ttggtcattctcagtccatgatggt	X94322
59465	tgtggtccccagtgctccttggcat	X94322
59466	tggtgtatgtcttctccaagttgaa	X94322
59467	gctatttccccagtagcattgtccg	X94322
59468	gtagcattgtccgggaggacctgaa	X94322

SEQ ID NO	sequence	DBAxnID
102005	taagccggtcctcatcgggagcgtc	AA165758
102006	ggtcctcatcgggagcgtccttgga	AA165758
102007	tcctcatcgggagcgtccttggacg	AA165758
102008	cctcatcgggagcgtccttggacgt	AA165758
102009	gattgaagccgagcccacaaagatg	AA165758
102010	cctagcaccttgctgaagatgctcg	AA165758
102011	ctagcaccttgctgaagatgctcga	AA165758
102012	accttgctgaagatgctcgactgaa	AA165758
102013	ttgctgaagatgctcgactgaagta	AA165758
102014	agatgctcgactgaagtatgaagat	AA165758
102015	gatgttgcccgtaagccggtcctca	AA165758
102016	atgttgcccgtaagccggtcctcat	AA165758
102017	gggcacaccagcgcaatgtcaaaca	M63244
102018	accagcgcaatgtcaaacacatgcg	M63244
102019	aagatgtgtctgtggctgcatgcaa	M63244
102020	acttctgtcatcgtcctgtgcactt	M63244
102021	gtcatcgtcctgtgcactttgaact	M63244
102022	gtcctgtgcactttgaacttatgag	M63244
102023	gggagcgatcctactttgggaacat	M63244
102024	cccaatatgttaccacctatgctta	M63244
102025	ccacctatgcttaaggagccagctg	M63244
102026	ccagctgccttggatgccagctcca	M63244
102027	tgtgcttctggctgacttgattctg	M63244
102028	tctggctgacttgattctgaaaata	M63244
102029	tcaaacacatgcgccagctgctaat	M63244
102030	agatctgtgatcttctgctctccaa	M63244
102031	gtgatcttctgctctccaagcacag	M63244
102032	tctccaagcacagcatctatgtgca	M63244
102033	agcacagcatctatgtgcaggccat	M63244
102034	ctgtgcctcgtggtgaggagctact	M63244
102035	agaagctgctgctggcctggactga	M63244
102036	ccctccaagatgtgtctgtggctgc	M63244
102037	ttccagagtcagtaccatgagccac	W29434
102038	agtcagtaccatgagccacaattct	W29434
102039	cttcttgtccaccaatgccgggctt	W29434
102040	gggaacccagcaactcagctgttgt	W29434
102041	gaacccagcaactcagctgttgtga	W29434
102042	ccagcaactcagctgttgtgaggac	W29434
102043	tgtgaggaccaccgtgatcaacatg	W29434
102044	tgaggaccaccgtgatcaacatgcc	W29434
102045	aggaccaccgtgatcaacatgccca	W29434
102046	accgtgatcaacatgcccagagagg	W29434
102047	cgtgatcaacatgcccagagaggtg	W29434
102048	tgatcaacatgcccagagaggtgtc	W29434
102049	taccatgagccacaattctcaagcc	W29434
102050	ccatgagccacaattctcaagcctt	W29434
102051	cacaattctcaagccttcttgtcca	W29434
102052	caattctcaagccttcttgtccacc	W29434
102053	attctcaagccttcttgtccaccaa	W29434
102054	tcaagccttcttgtccaccaatgcc	W29434
102055	aagccttcttgtccaccaatgccgg	W29434
102056	gccttcttgtccaccaatgccgggc	W29434
102057	gagcccgttgtccggagtgcacctg	AA165717
102058	agcccgttgtccggagtgcacctgc	AA165717
102059	cgagtcgccatggaagtgcagaaag	AA165717
102060	agtcgccatggaagtgcagaaagag	AA165717
102061	tggcctgcggtgcaccggagtctgc	AA165717
102062	agtctgcagctgtcgctggtcatgc	AA165717
102063	gtctgcagctgtcgctggtcatgcg	AA165717
102064	ctgcagctgtcgctggtcatgcgca	AA165717
102065	ctgtcgctggtcatgcgcacgcccg	AA165717
102066	tgtcgctggtcatgcgcacgcccgg	AA165717
102067	gcccgttgtccggagtgcacctgct	AA165717
102068	gagtgcacctgctgcctgttctgtc	AA165717
102069	agtgcacctgctgcctgttctgtcc	AA165717
102070	gtgcacctgctgcctgttctgtccc	AA165717
102071	tgcacctgctgcctgttctgtccct	AA165717
102072	ccgtcgagtcgccatggaagtgcag	AA165717

TABLE 1

SEQ ID NO	sequence	DBAxnID
16865	tatactacctacaatcataaattca	L28059
16866	gggccatactactttgactactggg	L28059
16867	tctgtccattctttctaaccctggg	L29346
16868	cattctttctaaccctgggctgaca	L29346
16869	tttctctgctcagcctcattccatg	L29346
16870	ttccatgccaaagtgctgctgctat	L29346
16871	gccaaagtgctgctgctataggcct	L29346
16872	taggcctctttgtgttgcacaaaat	L29346
16873	tccactatattggacatgcagcttt	L29346
16874	gacatgcagctttccttaggggaag	L29346
16875	cagctttccttaggggaagcctgca	L29346
16876	gcctgcaacaggatggccattctga	L29346
16877	aacaggatggccattctgagccagc	L29346
16878	atggccattctgagccagcaaacct	L29346
16879	ttctaaccctgggctgacaccgcag	L29346
16880	gctggcagcacaatgaccagatatg	L29346
16881	gcagcagcagcagttctgaaaagcc	L29346
16882	catccatgtggccacattcatctgc	L29346
16883	tttcatgaaccatggtcagccccaa	L29346
16884	agtcatcccataacaggtgaccaac	L29346
16885	ccctgtgtgctcaggggcagctaag	L29346
16886	gtgctcaggggcagctaagaataca	L29346
16887	taaggttttctctgctcagcctcat	L29346
16888	aacatgtctcgtgatatccttacac	W59479
16889	acatgtctcgtgatatccttacaca	W59479
16890	gtgatatccttacacaacgtacaaa	W59479
16891	tgatatccttacacaacgtacaaat	W59479
16892	gatatccttacacaacgtacaaatt	W59479
16893	gattgatactgcagggcaagatagа	W59479
16894	ttgatactgcagggcaagatagatt	W59479
16895	tgatactgcagggcaagatagatta	W59479
16896	catgtctcgtgatatccttacacaa	W59479
16897	atgtctcgtgatatccttacacaac	W59479
16898	tgtctcgtgatatccttacacaacg	W59479
16899	gtctcgtgatatccttacacaacgt	W59479
16900	tctcgtgatatccttacacaacgta	W59479
16901	ctcgtgatatccttacacaacgtac	W59479
16902	tcgtgatatccttacacaacgtaca	W59479
16903	cgtgatatccttacacaacgtacaa	W59479
16904	acagcgcttctgtaggacacacata	U06670
16905	acacatacccagcaatatcagttgt	U06670
16906	ggccaaatatgcactttccctagaa	U06670
16907	atatgcactttccctagaaagccat	U06670
16908	aagccatattccagcaatgaacctt	U06670
16909	tattccagcaatgaaccttgtgcta	U06670
16910	gaaccttgtgctatagtgactccca	U06670
16911	acctgtacatacattgtataggcca	U06670
16912	taggccacctgtacatatcccagag	U06670
16913	acctgtacatatcccagagaacaat	U06670
16914	acatatcccagagaacaatcactat	U06670
16915	tcactattcttaagcactttgttga	U06670
16916	atgatctggcttgagttctgaacaa	U06670
16917	aatcttggtctatgaggtctacacc	U06670
16918	ctacaccaataacaccctactctgg	U06670
16919	taacagagccagcgctgaagtctcc	U06670
16920	tcctcccatctggaagaacatcaag	U06670
16921	ttcttggccacattctacttcagct	U06670
16922	gccacattctacttcagctctggat	U06670
16923	cttgagcccctagacagtattgcca	U06670
16924	atgccacacggcgagagatgcacat	W59606
16925	cccccatatcagtgagcttgcattc	W59606
16926	attgcctctaggtcttcttcctcga	W59606
16927	gcctctaggtcttcttcctcgatct	W59606
16928	tctaggtcttcttcctcgatctctc	W59606
16929	aggtcttcttcctcgatctctctac	W59606
16930	tctctacctcctagcaatgccagtc	W59606
16931	ctacctcctagcaatgccagtctat	W59606
16932	cctcctagcaatgccagtctatggg	W59606

SEQ ID NO:	sequence	DBAxnID
59469	actcgaaacctggcaaaattgatat	X94322
59470	aatgggatttctactgccagtgagc	X94322
59471	actgccagtgagctcagcctaccgc	X94322
59472	ctaccgctatccctgcagttaccttt	X94322
59473	ctgcagttaccttccggctctatgc	X94322
59474	ttaccttccggctctatgcaaatac	X94322
59475	tccggctctatgcaaatacagcagc	X94322
59476	gagctatgcccaagctggctgactg	X94322
59477	ctatgcaaatacagcagccaatggc	X94322
59478	agctggctgactggaagctgtgtgc	X94322
59479	ctgactggaagctgtgtgcggacga	X94322
59480	aggaatgcagccatcctatctccat	X94322
59481	tctccatggctgtggccctccagga	X94322
59482	tccaggactacgtggcccctgattg	X94322
59483	actacgtggcccctgattgccgctt	X94322
59484	gccgcttcttgactatatatagggg	X94322
59485	attttcgtgctttatcagtagccct	Z23066
59486	gtgctttatcagtagccctgcatat	Z23066
59487	actgatttctccaagtgtgagcttt	Z23066
59488	tccaagtgtgagctttctgagcaag	Z23066
59489	tgtgagctttctgagcaaggggatt	Z23066
59490	ttttttgcttcagagaagtaagtgt	Z23066
59491	taagtgtctgtccgttttcattcag	Z23066
59492	gtgtctgtccgttttcattcagggg	Z23066
59493	tctgtctgtgacctcctttgaaatt	Z23066
59494	tgtgacctcctttgaaattaacatg	Z23066
59495	aagacatccaagactttctcgcttt	Z23066
59496	acatccaagactttctcgctttcta	Z23066
59497	ctttatcagtagccctgcatatatt	Z23066
59498	agactttctcgctttctaatacgcg	Z23066
59499	attttgtgagccagacttgtatatt	Z23066
59500	cctcctaagtattgtaccttcagcg	Z23066
59501	cctaagtattgtaccttcagcgtgc	Z23066
59502	aagtattgtaccttcagcgtgcagt	Z23066
59503	accttcagcgtgcagtatctgtgaa	Z23066
59504	ttcagcgtgcagtatctgtgaactg	Z23066
59505	tgaactgatttctccaagtgtgagc	Z23066
59506	gcgcgcgcgcacaagagcaagaaggg	W81863
59507	tgctgccagcgcgaagaaagtgaag	W81863
59508	cgcaagtgacgcccctacggtctgg	W81863
59509	cccctacggtctggcgacatcgtcg	W81863
59510	ccctacggtctggcgacatcgtcga	W81863
59511	ctacggtctggcgacatcgtcgagt	W81863
59512	tacggtctggcgacatcgtcgagtt	W81863
59513	cggtctggcgacatcgtcgagtttt	W81863
59514	ggtctggcgacatcgtcgagttttc	W81863
59515	tctggcgacatcgtcgagttttcca	W81863
59516	ctggcgacatcgtcgagttttccat	W81863
59517	gcgacatcgtcgagttttccatctg	W81863
59518	gctgccagcgcgaagaaagtgaaga	W81863
59519	gacatcgtcgagttttccatctgtc	W81863
59520	acccagcgtgcccaaggtgcccaag	W81863
59521	cccagcgtgcccaaggtgcccaagg	W81863
59522	cagcgtgcccaaggtgcccaagggc	W81863
59523	gtgcccaaggtgcccaagggccgca	W81863
59524	caaggtgcccaagggccgcaagtga	W81863
59525	gtgcccaagggccgcaagtgacgcc	W81863
59526	ccgcaagtgacgcccctacggtctg	W81863
59527	tattaattccattgcccagatgttg	X53798
59528	ttccattgcccagatgttgttatgt	X53798
59529	tgtgagtaacccttggacattttat	X53798
59530	gacattttatgtcttcctcgtaagg	X53798
59531	ttatgtcttcctcgtaaggcacagt	X53798
59532	cttcctcgtaaggcacagtgccttg	X53798
59533	cctcgtaaggcacagtgccttgctt	X53798
59534	aaggcacagtgccttgcttagcaat	X53798
59535	gcacagtgccttgcttagcaattgt	X53798
59536	cagtgccttgcttagcaattgtttt	X53798

SEQ ID NO	sequence	DBAxnID
102073	cgtcgagtcgccatggaagtgcaga	AA165717
102074	tcgagtcgccatggaagtgcagaaa	AA165717
102075	ctatgtccccaaaccagtcagctgg	AA140311
102076	atgtccccaaaccagtcagctgggc	AA140311
102077	tcaacaacttggcatagtaacgatg	AA140311
102078	tgacgtgtacagggcgcctccaatt	AA140311
102079	acgtgtacagggcgcctccaattga	AA140311
102080	gtgtacagggcgcctccaattgacc	AA140311
102081	gtacagggcgcctccaattgaccgt	AA140311
102082	ggcgcctccaattgaccgttccatc	AA140311
102083	attgaccgttccatccttcccactg	AA140311
102084	cactgctccacgggctgctcgggaa	AA140311
102085	ggctgctcgggaacccaatattgac	AA140311
102086	ctgctcgggaacccaatattgaccg	AA140311
102087	gtccccaaaccagtcagctgggctg	AA140311
102088	ccccaaaccagtcagctgggctgtt	AA140311
102089	ccaaaccagtcagctgggctgttga	AA140311
102090	aaaccagtcagctgggctgttgaaa	AA140311
102091	accagtcagctgggctgttgaaaca	AA140311
102092	cagtcagctgggctgttgaaacaga	AA140311
102093	tgtgtcaacaacttggcatagtaac	AA140311
102094	tgtcaacaacttggcatagtaacga	AA140311
102095	aatggaaatctatcgccctcacaaa	AA166500
102096	tggaaatctatcgccctcacaaagc	AA166500
102097	gcgctccatccgtccagataacatg	AA166500
102098	tccatccgtccagataacatgtcgg	AA166500
102099	tccgtccagataacatgtcggagta	AA166500
102100	cgtccagataacatgtcggagtaca	AA166500
102101	tctgtcagttgtctactggtggttc	AA166500
102102	tgtcagttgtctactggtggttctg	AA166500
102103	tcagttgtctactggtggttctgtg	AA166500
102104	agttgtctactggtggttctgtggc	AA166500
102105	ctactggtggttctgtggcaagtgc	AA166500
102106	actggtggttctgtggcaagtgctg	AA166500
102107	tcgccctcacaaagccaatgctgag	AA166500
102108	cctcacaaagccaatgctgaggaga	AA166500
102109	tcacaaagccaatgctgaggagatg	AA166500
102110	accacagcgatgactacattaaatt	AA166500
102111	actacattaaattcttgcgctccat	AA166500
102112	ttaaattcttgcgctccatccgtcc	AA166500
102113	aaattcttgcgctccatccgtccag	AA166500
102114	attcttgcgctccatccgtccagat	AA166500
102115	atgtctggtggctccgggattataa	AA166502
102116	gtctggtggctccgggattataaca	AA166502
102117	ctccttcgtggcatctatgcttacg	AA166502
102118	ccttcgtggcatctatgcttacggt	AA166502
102119	gagagctattatccctgtattaaag	AA166502
102120	agagctattatccctgtattaaaga	AA166502
102121	agctattatccctgtattaaagatc	AA166502
102122	gctattatccctgtattaaagatcc	AA166502
102123	tattatccctgtattaaagatccaa	AA166502
102124	attctggcacttggagactatatgg	AA166502
102125	tcatgcctgcattggtggacaaatg	AA166502
102126	tgcctgcattggtggacaaatgttc	AA166502
102127	tctggtggctccgggattataacag	AA166502
102128	tggtggctccgggattataacagca	AA166502
102129	atggcggcccagagcgaactggacc	AA166502
102130	cagagcgaactggaccccgatggtg	AA166502
102131	agcgaactggaccccgatggtgtca	AA166502
102132	gtctctccttcgtggcatctatgct	AA166502
102133	tctctccttcgtggcatctatgctt	AA166502
102134	tctccttcgtggcatctatgcttac	AA166502
102135	gaagcgaccaaagcgcctgaggacc	AA166505
102136	agcgaccaaagcgcctgaggaccgg	AA166505
102137	tgtttgtacagcgacaggtgtttgc	AA166505
102138	tgtacagcgacaggtgtttgctgag	AA166505
102139	acagcgacaggtgtttgctgagaac	AA166505
102140	gattgctttagtcctgtttggtaca	AA166505

TABLE 1

SEQ ID NO	sequence	DBAxnID
16933	cctagcaatgccagtctatgggtcc	W59606
16934	agcaatgccagtctatgggtccctg	W59606
16935	aatgccagtctatgggtccctgcag	W59606
16936	ccatatcagtgagcttgcattccct	W59606
16937	tgctggctgacagcccctatcccta	W59606
16938	tggctgacagcccctatccctactg	W59606
16939	cctatccctactggccctattcatg	W59606
16940	atccctactggccctattcatgacc	W59606
16941	caccctagaattgcctctaggtctt	W59606
16942	cctagaattgcctctaggtcttctt	W59606
16943	agaattgcctctaggtcttcttcct	W59606
16944	tccatctcatttcttgtcaaagcca	X86569
16945	tttcttgtcaaagccactttagtga	X86569
16946	agcctccactacagagctgggcaga	X86569
16947	gtgcatctgccctctgagttctttc	X86569
16948	ccctctgagttctttctgtgtgatc	X86569
16949	tttttcataacggctgcagcagcag	X86569
16950	ccatgtcttcactccgcttcagttg	X86569
16951	tgtcttcactccgcttcagttgacc	X86569
16952	tgaagctttcccagtgcactttgaa	X86569
16953	tccttgcctcggcccagtgatcatg	X86569
16954	ttgcctcggcccagtgatcatgaca	X86569
16955	cctcggcccagtgatcatgacagga	X86569
16956	cttgtcaaagccactttagtgagaa	X86569
16957	gtcaaagccactttagtgagaaata	X86569
16958	aataggtaccagtcctcaggacgag	X86569
16959	aggtaccagtcctcaggacgagcca	X86569
16960	cagtcctcaggacgagccaggatcc	X86569
16961	acgatgcctgggatccagctgacag	X86569
16962	atccagctgacaggagggtccagcc	X86569
16963	tccagcctccactacagagctgggc	X86569
16964	gaatcggaagccttggatgacccat	AA009014
16965	gaagccttggatgacccatgcacgc	AA009014
16966	atgcttcgtggtgttctgggaaagg	AA009014
16967	aaggcttttcgacttgctggctata	AA009014
16968	gcttttcgacttgctggctatacca	AA009014
16969	gctggctataccattcagtatggct	AA009014
16970	ggctataccattcagtatggctgca	AA009014
16971	accattcagtatggctgcatagctc	AA009014
16972	tgcatagctcattgtgcttttgaat	AA009014
16973	atagctcattgtgcttttgaatacg	AA009014
16974	tgttctggaccatcaatggaaccca	AA009014
16975	ggaccatcaatggaacccacaattc	AA009014
16976	gatgacccatgcacgctttgagacc	AA009014
16977	tcaatggaacccacaattcaaaatt	AA009014
16978	gacccatgcacgctttgagacctcc	AA009014
16979	tgcacgctttgagacctccgtcaga	AA009014
16980	ctttgagacctccgtcagatctggg	AA009014
16981	ctccgtcagatctggggtttcctgg	AA009014
16982	catacttttggctggtggtagcaga	AA009014
16983	actttggctggtggtagcagagtc	AA009014
16984	catcaaagtatgcttcgtggtgttc	AA009014
16985	ccagactaagctacagacgctcata	L34808
16986	taagctacagacgctcatagctccg	L34808
16987	cagagccttctggggtcctctgctc	L34808
16988	gggtcctctgctcctgtattcccag	L34808
16989	tctgctcctgtattcccaggccaac	L34808
16990	ggcccgggcagtgagttgtgatttt	L34808
16991	taaatctgttttgacagttgatttc	L34808
16992	cttcatagacttctcccgcttctga	L34808
16993	ctcccgcttctgagttcttatcttc	L34808
16994	tatcttctcccgggttgagatgttg	L34808
16995	gactatagtcctggtgtgtaaatag	L34808
16996	aagcataatttctgtgctgttttct	L34808
16997	acagacgctcatagctccgtgccag	L34808
16998	gctcatagctccgtgccagctgtat	L34808
16999	gtgccagctgtatgcccagaaaggt	L34808
17000	gctgtatgcccagaaaggtgtccat	L34808

SEQ ID NO:	sequence	DBAxnID
59537	gccttttcgtgtcttgaagtggaca	X53798
59538	ttttcgtgtcttgaagtggacacat	X53798
59539	cattgcccagatgttgttatgttta	X53798
59540	gatatcgattcgctaattcactgta	X53798
59541	atcgattcgctaattcactgtaata	X53798
59542	gattcgctaattcactgtaatatct	X53798
59543	tcgctaattcactgtaatatcttaa	X53798
59544	agatgcagtcggatggctttcatgg	X53798
59545	ttttgtaagcaccgaggagagtaga	X53798
59546	tgtaagcaccgaggagagtagaaca	X53798
59547	tggactcacaattccaagtactacc	W81967
59548	ggactcacaattccaagtactacca	W81967
59549	gacagcatggagcccggtgacctct	W81967
59550	acagcatggagcccggtgacctctg	W81967
59551	agcatggagcccggtgacctctggg	W81967
59552	catggagcccggtgacctctgggac	W81967
59553	accagaggcgctggcacattctctt	W81967
59554	aggcgctggcacattctcttgtcgg	W81967
59555	ggcgctggcacattctcttgtcggg	W81967
59556	gactcacaattccaagtactaccag	W81967
59557	actcacaattccaagtactaccaga	W81967
59558	ctcacaattccaagtactaccagaa	W81967
59559	tcacaattccaagtactaccagaaa	W81967
59560	cacaattccaagtactaccagaaag	W81967
59561	caggacagcatggagcccggtgacc	W81967
59562	aggacagcatggagcccggtgacct	W81967
59563	ggacagcatggagcccggtgacctc	W81967
59564	cgattcttccttcaatttagtgttg	X51941
59565	taatgacatttatcttacagaaata	X51941
59566	attgtgtcagctcctcacatgggaa	X51941
59567	gtgtcagctcctcacatgggaatga	X51941
59568	tcagctcctcacatgggaatgatat	X51941
59569	gctcctcacatgggaatgatattgt	X51941
59570	tgtgtgtgacgctctcttaaatgaa	X51941
59571	cgctctcttaaatgaatgttgatgg	X51941
59572	ctagaaacacgctgatctgtataca	X51941
59573	gaaacacgctgatctgtatacactt	X51941
59574	cgctgatctgtatacactttcttat	X51941
59575	tgatctgtatacactttcttattaa	X51941
59576	tggatggatcctcagccagacctac	X51941
59577	atggatcctcagccagacctactat	X51941
59578	cctcagccagacctactattgcttc	X51941
59579	ccagacctactattgcttcaataaa	X51941
59580	gacctactattgcttcaataaaagt	X51941
59581	agataggcttccaggattgtgtcag	X51941
59582	taggcttccaggattgtgtcagctc	X51941
59583	gcttccaggattgtgtcagctcctc	X51941
59584	gtccctctgactttatcgaccctgg	X68803
59585	tgaccagcctgagacagattctcca	X68803
59586	ccagcctatgtgcagcctgccttta	X68803
59587	gcctatgtgcagcctgcctttagct	X68803
59588	tatgtgcagcctgcctttagcttgc	X68803
59589	gtgcagcctgcctttagcttgcccc	X68803
59590	ttctgtccccagctgtccctttgag	X68803
59591	ccccagctgtcccttgaggatctc	X68803
59592	cagctgtcccttgaggatctcaaa	X68803
59593	ctgtcccttgaggatctcaaagat	X68803
59594	tcccttgaggatctcaaagataca	X68803
59595	caataaagacctaacctccagcagc	X68803
59596	ccagcctgagacagattctccaagc	X68803
59597	gacagattctccaagccagagctct	X68803
59598	agattctccaagccagagctctctg	X68803
59599	ctctctggtactctttgtgttcaac	X68803
59600	ggtactctttgtgttcaacaaagct	X68803
59601	caacaaagcttgtccccagactatc	X68803
59602	agcttgtccccagactatccccagt	X68803
59603	ttgtccccagactatccccagtctg	X68803
59604	tgtcacagtcaaaaccatcaagaaa	W81759

SEQ ID NO:	sequence	DBAxnID
102141	tgctttagtcctgtttggtacagat	AA166505
102142	ctttagtcctgtttggtacagatgg	AA166505
102143	tagtcctgtttggtacagatggcac	AA166505
102144	agtcctgtttggtacagatggcact	AA166505
102145	tggcactgacaatccccctttctggt	AA166505
102146	gcactgacaatccccctttctggtgg	AA166505
102147	tgtgctgtgtatggacgtgggcttt	AA166505
102148	gctttaccatgagtaactccattcc	AA166505
102149	ctttaccatgagtaactccattcct	AA166505
102150	tcctggtatagaatccccatttgaa	AA166505
102151	tggtatagaatccccatttgaacaa	AA166505
102152	tatagaatccccatttgaacaagca	AA166505
102153	tgataaccatgtttgtacagcgaca	AA166505
102154	aaccatgtttgtacagcgacaggtg	AA166505
102155	gcactagcctccaggttttacatcc	AA166507
102156	gcctccaggttttacatcccagagg	AA166507
102157	ttgaacccaaacaacatcttattga	AA166507
102158	aacccaaacaacatcttattgaatg	AA166507
102159	ccaaacaacatcttattgaatgata	AA166507
102160	ggacacattcagctaacgtatttta	AA166507
102161	cacattcagctaacgtattttagca	AA166507
102162	tattttagcaggtggagtgaggttg	AA166507
102163	gaagattcctgtgacagcgatgcca	AA166507
102164	gattcctgtgacagcgatgccatag	AA166507
102165	tcctgtgacagcgatgccatagaga	AA166507
102166	gacagcgatgccatagagagaatgt	AA166507
102167	ttttacatcccagagggctgcattc	AA166507
102168	tacatcccagagggctgcattcaaa	AA166507
102169	atcccagagggctgcattcaaagat	AA166507
102170	gtggtagcccttgatgctttacata	AA166507
102171	gtagcccttgatgctttacatagag	AA166507
102172	attgtgtgccgcgatttgaacccaa	AA166507
102173	tgccgcgatttgaacccaaacaaca	AA166507
102174	gatttgaacccaaacaacatcttat	AA166507
102175	ccactccatgaggtatttcttcaca	AA166509
102176	actccatgaggtatttcttcacatc	AA166509
102177	cgccgcgagccagaagatggagccg	AA166509
102178	aatatgaaggcccactcacagactg	AA166509
102179	atgaaggcccactcacagactgacc	AA166509
102180	tgaaggcccactcacagactgaccg	AA166509
102181	aggcccactcacagactgaccgagc	AA166509
102182	gcccactcacagactgaccgagcga	AA166509
102183	cccactcacagactgaccgagcgaa	AA166509
102184	cactcacagactgaccgagcgaacc	AA166509
102185	actcacagactgaccgagcgaacct	AA166509
102186	tcacagactgaccgagcgaacctgg	AA166509
102187	ggtatttcttcacatccgtgtcccg	AA166509
102188	gtatttcttcacatccgtgtcccgg	AA166509
102189	gcttcatcgccgtgggtacgtggac	AA166509
102190	catcgccgtgggtacgtggacgaca	AA166509
102191	gttcgacagcgacgccgcgagccag	AA166509
102192	agcgacgccgcgagccagaagatgg	AA166509
102193	cgacgccgcgagccagaagatggag	AA166509
102194	gacgccgcgagccagaagatggagc	AA166509
102195	ccacatccgcaatggcgtacacact	AA166512
102196	caatggcgtacacactcccatagac	AA166512
102197	tccaattgcaaaaccaactccaaag	AA166512
102198	aactccaaagttcggagctatgagt	AA166512
102199	acataaaatgctgactccaacaatt	AA166512
102200	aatgctgactccaacaattatcatt	AA166512
102201	gctgactccaacaattatcattccc	AA166512
102202	gactccaacaattatcattcccaga	AA166512
102203	aattatcattcccagaagagcacaa	AA166512
102204	tatcattcccagaagagcacaaagc	AA166512
102205	ccccattttgtgtgcaagtatccca	AA166512
102206	gatactagctggcaagaaggcaacg	AA166512
102207	catagacggacacgtgccgcagtct	AA166512
102208	acacgtgccgcagtctacgaggtag	AA166512

TABLE 1

SEQ ID NO	sequence	DBAxnID
17001	ggactgaatgccttctgcctgcaaa	L34808
17002	ttctgcctgcaaaggagtggcactg	L34808
17003	tgtctctgtctgcagatgccccttc	L34808
17004	ccacctggctttatacatgtactag	L34808
17005	tcacggctttgacaagcccgcagcg	W59678
17006	acgctgagcccgcgatgaactgcgc	W59678
17007	gcaccagcttcctcgtaagtgatca	W59678
17008	ccagcttcctcgtaagtgatcagag	W59678
17009	gcttcctcgtaagtgatcagagccg	W59678
17010	gtgatcagagccgcttcgccaagga	W59678
17011	agagccgcttcgccaaggaagtact	W59678
17012	gccgcttcgccaaggaagtactgcc	W59678
17013	gcttcgccaaggaagtactgcccca	W59678
17014	aagtactgccccagtatttcaagca	W59678
17015	cccagtatttcaagcacagcaatat	W59678
17016	atatggcgagctttgttcgtcaact	W59678
17017	ctgagcccgcgatgaactgcgccat	W59678
17018	ccgcgatgaactgcgccatgcagga	W59678
17019	cgatgaactgcgccatgcaggaagc	W59678
17020	tgaactgcgccatgcaggaagcgcc	W59678
17021	ccatgcaggaagcgccacgtgcgct	W59678
17022	ccttcctcggcaagctatgggcgct	W59678
17023	tcctcggcaagctatgggcgctggt	W59678
17024	agctatgggcgctggtaggcgaccc	W59678
17025	acgttcctgagtggccaaggccctg	W61804
17026	cgttcctgagtggccaaggccctgc	W61804
17027	aagacacgctgcccgatctacagat	W61804
17028	agacacgctgcccgatctacagatg	W61804
17029	gacacgctgcccgatctacagatga	W61804
17030	acacgctgcccgatctacagatgaa	W61804
17031	cacgctgcccgatctacagatgaag	W61804
17032	acgctgcccgatctacagatgaagt	W61804
17033	cgctgcccgatctacagatgaagta	W61804
17034	gctgcccgatctacagatgaagtac	W61804
17035	ctgcccgatctacagatgaagtaca	W61804
17036	tgcccgatctacagatgaagtacac	W61804
17037	gttcctgagtggccaaggccctgcg	W61804
17038	gcggagcaccatcgtaacctctgtc	W61804
17039	atcgtaacctctgtccaggaagttg	W61804
17040	tcgtaacctctgtccaggaagttga	W61804
17041	gtaacctctgtccaggaagttgact	W61804
17042	caggaagacacgctgcccgatctac	W61804
17043	aggaagacacgctgcccgatctaca	W61804
17044	ggaagacacgctgcccgatctacag	W61804
17045	catcttcattccaacaggaaaaaga	L34111
17046	acgttaaatcctgcagctccattct	L34111
17047	gccgccatgacctttctcctaggct	L34111
17048	gccatgacctttctcctaggctggt	L34111
17049	atgacctttctcctaggctggtgtc	L34111
17050	ctcctaggctggtgtcttgggcttc	L34111
17051	ctaggctggtgtcttgggcttccta	L34111
17052	tgtcttgggcttcctattgattcga	L34111
17053	cttgggcttcctattgattcgataa	L34111
17054	cttcctattgattcgataaaccgcg	L34111
17055	tcgataaaccgcgatgaatgagcag	L34111
17056	acttgtattcctacattacagtcta	L34111
17057	aatcctgcagctccattctcagcat	L34111
17058	gcagctccattctcagcatcggggc	L34111
17059	ttctcagcatcggggcccatgatcc	L34111
17060	tcggggcccatgatcctgtgatgtg	L34111
17061	gggcccatgatcctgtgatgtgctg	L34111
17062	cccatgatcctgtgatgtgctggac	L34111
17063	atcctgtgatgtgctggacagtctg	L34111
17064	ttgccatttccagccgccatgacct	L34111
17065	aagcctatgaggccgggagactgac	W59720
17066	aagtgcattgctgcagtcagtgggg	W59720
17067	gccagtttcccaacatctcactgat	W59720
17068	agtttcccaacatctcactgattgg	W59720
59605	gggcaccgtacgaaccatcaccaag	W81759
59606	gttcaccttagcctctgactttgaa	W81759
59607	caccttagcctctgactttgaaatt	W81759
59608	cttagcctctgactttgaaattggg	W81759
59609	agcctctgactttgaaattgggcac	W81759
59610	gcacttttttcgtgagcgcatcgtg	W81759
59611	ttttcgtgagcgcatcgtgccacgg	W81759
59612	tcgtgagcgcatcgtgccacgggct	W81759
59613	gccacgggctgtcctctacttcact	W81759
59614	acgggctgtcctctacttcactggg	W81759
59615	ggctgtcctctacttcactggggag	W81759
59616	caccgtacgaaccatcaccaagcaa	W81759
59617	aaccatcaccaagcaagtgcccaat	W81759
59618	catcaccaagcaagtgcccaatgag	W81759
59619	caccaagcaagtgcccaatgagtcc	W81759
59620	agtgcccaatgagtccttcttcaac	W81759
59621	gcccaatgagtccttcttcaacttc	W81759
59622	caatgagtccttcttcaacttcttc	W81759
59623	agattccgagttcaccttagcctct	W81759
59624	tctgctgtccggaattctctggttt	W81760
59625	gctgtccggaattctctggttttct	W81760
59626	ctggatttccgctgacaaaattgaa	W81760
59627	aattgaagatgctcctgctccttct	W81760
59628	tgaagatgctcctgctccttctacc	W81760
59629	agatgctcctgctccttctacctcg	W81760
59630	tacctcggcagataaaatggagagt	W81760
59631	acatctggtgatgggtgacattcca	W81760
59632	gggtgacattccagcagctgttaat	W81760
59633	tgacattccagcagctgttaatgca	W81760
59634	agctgttaatgcattccaggaagca	W81760
59635	tgttaatgcattccaggaagcagct	W81760
59636	aattctctggttttcttcgcaggca	W81760
59637	tgcattccaggaagcagctagtctt	W81760
59638	tctctggttttcttcgcaggcagtg	W81760
59639	ctggttttcttcgcaggcagtgttc	W81760
59640	ttcttcgcaggcagtgttctgccca	W81760
59641	ttcgcaggcagtgttctgcccactg	W81760
59642	gatggccacagagtctacagccgct	W81760
59643	ggccacagagtctacagccgctgct	W81760
59644	cacagagtctacagccgctgctgcc	W81760
59645	agttgtcaagggcaaggtggaatat	X56690
59646	ggacaacacttgggagccagaagag	X56690
59647	ctctgatgaggctgacctggtccct	X56690
59648	tgaggctgacctggtccctgccaag	X56690
59649	tgacctggtccctgccaaggaagcc	X56690
59650	ggtccctgccaaggaagccaatgtc	X56690
59651	caatgtcaagtgcccacaggttgtc	X56690
59652	caagtgcccacaggttgtcatatcc	X56690
59653	cccacaggttgtcatatccttctat	X56690
59654	ggttgtcatatccttctatgaggaa	X56690
59655	catatccttctatgaggaaaggcta	X56690
59656	ctacccctcagaggatgatgacaaa	X56690
59657	ggattgccctgaccttattgctgag	X56690
59658	ccctgaccttattgctgagtttcta	X56690
59659	ccttattgctgagtttctacagtca	X56690
59660	gtttctacagtcacagaaaacagct	X56690
59661	agctgattctgattctgaagataaa	X56690
59662	tattggagctactgactccagtgga	X56690
59663	tgactccagtggagagctcatgttc	X56690
59664	agagctcatgttcctgatgaaatgg	X56690
59665	gtcgttacacgtcagcctgccttga	W82071
59666	acacgtcagcctgccttgagccaag	W82071
59667	aagttcttcctggagctgtgtgtgg	W82071
59668	gacgtgcttcggtcttcgaatctgc	W82071
59669	gtgcttcggtcttcgaatctgcttc	W82071
59670	tcgaatctgcttcacaatgggcttc	W82071
59671	aatctgcttcacaatgggcttcagg	W82071
59672	ctgcttcacaatgggcttcaggaga	W82071
102209	gcagtctacgaggtagcccatgata	AA166512
102210	tacgaggtagcccatgataggcatc	AA166512
102211	catcattgacgaatccaccattcca	AA166512
102212	cgaatccaccattccaattgcaaaa	AA166512
102213	atccaccattccaattgcaaaacca	AA166512
102214	caccattccaattgcaaaaccaact	AA166512
102215	gttttctcatgcgcgtgtgcgtttt	AA166514
102216	tttctcatgcgcgtgtgcgttttcc	AA166514
102217	cggcaaccccagcggcttaagcatg	AA166514
102218	gcaaccccagcggcttaagcatggc	AA166514
102219	aaccccagcggcttaagcatggcgc	AA166514
102220	ccagcggcttaagcatggcgcttct	AA166514
102221	cggcttaagcatggcgcttctcacg	AA166514
102222	gcttaagcatggcgcttctcacggc	AA166514
102223	aagcatggcgcttctcacggcattc	AA166514
102224	atggcgcttctcacggcattcagca	AA166514
102225	ggcgcttctcacggcattcagcagc	AA166514
102226	acggcattcagcagcagcgttgctg	AA166514
102227	cagggtccacggccaccatggcgta	AA166514
102228	gggtccacggccaccatggcgtatt	AA166514
102229	ccacggccaccatggcgtattaggg	AA166514
102230	ggcctttgcagcggcggcacagcac	AA166514
102231	tttgcagcggcggcacagcaccagg	AA166514
102232	acagcaccaggctctgagcggcaac	AA166514
102233	agcaccaggctctgagcggcaaccc	AA166514
102234	agcggcaaccccagcggcttaagca	AA166514
102235	cgaacgaagcgtcccagccgattgt	AA166517
102236	cgaagcgtcccagccgattgtggaa	AA166517
102237	tgcagaaactggctctggaaagaca	AA166517
102238	cagaaactggctctggaaagacagg	AA166517
102239	aactggctctggaaagacaggcgcc	AA166517
102240	ctttgctttgcccattctaaacgca	AA166517
102241	ttgctttgcccattctaaacgcact	AA166517
102242	tttgcccattctaaacgcactgctg	AA166517
102243	tgcccattctaaacgcactgctgga	AA166517
102244	cattctaaacgcactgctggagacc	AA166517
102245	ttctaaacgcactgctggagacccc	AA166517
102246	aaacgcactgctggagaccccgcag	AA166517
102247	aagcgtcccagccgattgtggaaga	AA166517
102248	gtcccagccgattgtggaagaggag	AA166517
102249	cccagccgattgtggaagaggagga	AA166517
102250	atggacaaaacccaccaagatccag	AA166517
102251	ggacaaaacccaccaagatccagat	AA166517
102252	aacccaccaagatccagattgaagc	AA166517
102253	caccaagatccagattgaagctatt	AA166517
102254	tatcattgggcttgcagaaactggc	AA166517
102255	ccctctctcattctgtgatgggtat	AA165782
102256	ctctctcattctgtgatgggtatag	AA165782
102257	gaactctagactggacgcatcttct	AA165782
102258	actctagactggacgcatcttcttc	AA165782
102259	tagactggacgcatcttcttcctac	AA165782
102260	gactggacgcatcttcttcctactg	AA165782
102261	ctggacgcatcttcttcctactggc	AA165782
102262	tctgcctcccaaacacaataaatac	AA165782
102263	cctcccaaacacaataaatacatag	AA165782
102264	ccaaacacaataaatacatagttgc	AA165782
102265	taaatacatagttgcccaccagaaa	AA165782
102266	tacatagttgcccaccagaaaaaga	AA165782
102267	ctctcattctgtgatgggtatagca	AA165782
102268	tatagcagaaaccttcctgcttttc	AA165782
102269	tagcagaaaccttcctgcttttcac	AA165782
102270	cttcctgcttttcaccaggaactct	AA165782
102271	ctgcttttcaccaggaactctagac	AA165782
102272	gcttttcaccaggaactctagactg	AA165782
102273	ttttcaccaggaactctagactgga	AA165782
102274	ttcaccaggaactctagactggacg	AA165782
102275	caatttcaaggactatggagtcaac	D00926
102276	ctgtgacaagctggcctcagaaata	D00926

TABLE 1

SEQ ID NO	sequence	DBAxnID
17069	ccaacatctcactgattgggctgac	W59720
17070	acatctcactgattgggctgacagc	W59720
17071	tctcactgattgggctgacagcaac	W59720
17072	cagcaacagcaaccaaccatgtttt	W59720
17073	caacagcaaccaaccatgttttgaa	W59720
17074	cagcaaccaaccatgttttgaagga	W59720
17075	cgtctttcaacagaccaaatctcta	W59720
17076	ctttcaacagaccaaatctctacta	W59720
17077	gacatgacttcaggccggattacaa	W59720
17078	acagaccaaatctctactatgaggt	W59720
17079	acttcaggccggattacaaagcact	W59720
17080	attacaaagcactcggcatcttgaa	W59720
17081	aagcactcggcatcttgaagcgcca	W59720
17082	tcggcatcttgaagcgccagtttcc	W59720
17083	gcatcttgaagcgccagtttcccaa	W59720
17084	tcttgaagcgccagtttcccaacat	W59720
17085	agcgccagtttcccaacatctcact	W59720
17086	agagctgagcagcaccgagtgccat	L36860
17087	gagcagcaccgagtgccatcagtgg	L36860
17088	tccctggagcgactcatccatgagt	L36860
17089	ctcatccatgagtgccgaggaattc	L36860
17090	ggaattcacagataccgtgtttgcc	L36860
17091	taccgtgtttgccaagatcgacatc	L36860
17092	gaaggaccagatgctcctggacacg	L36860
17093	ccgaagcctggacttgaccggcatc	L36860
17094	cctggacttgaccggcatcgtgcgc	L36860
17095	cttgaccggcatcgtgcgcagactc	L36860
17096	cagactccagaacggcgaacacgag	L36860
17097	ccagaacggcgaacacgaggaggca	L36860
17098	caccgagtgccatcagtggtataag	L36860
17099	tatgacggaggtcccatctggccag	L36860
17100	tggtctcaagaacctgagcccctca	L36860
17101	tgacttcatggagtacgtggcagcc	L36860
17102	tttcaagctctacgacgtcgacggc	L36860
17103	cgacggcaacgggtgcatagacagg	L36860
17104	ggccatccgaaccattaatccctgg	L36860
17105	cattaatccctggagcgactcatcc	L36860
17106	gagccgcagaagccagaccatccaa	W59738
17107	agccgcagaagccagaccatccaag	W59738
17108	gttgactggccacttggagcggaat	W59738
17109	gactggccacttggagcggaatcag	W59738
17110	ctggccacttggagcggaatcagga	W59738
17111	gagactgagccctagctcgcccact	W59738
17112	agactgagccctagctcgcccactt	W59738
17113	tagctcgcccacttgctggacaaga	W59738
17114	agctcgcccacttgctggacaagat	W59738
17115	ctcgcccacttgctggacaagatga	W59738
17116	tcgcccacttgctggacaagatgat	W59738
17117	cccacttgctggacaagatgatatt	W59738
17118	ccgcagaagccagaccatccaagtt	W59738
17119	cgcagaagccagaccatccaagttg	W59738
17120	agaagccagaccatccaagttgact	W59738
17121	aagccagaccatccaagttgactgg	W59738
17122	agccagaccatccaagttgactggc	W59738
17123	gaccatccaagttgactggccactt	W59738
17124	accatccaagttgactggccacttg	W59738
17125	caagttgactggccacttggagcgg	W59738
17126	gcgcccttgggaccagtgaaattct	W59741
17127	ccaggtgtcagcatctccgaagaga	W59741
17128	tccatagagcagcagcggcagaagc	W59741
17129	atagagcagcagcggcagaagctgc	W59741
17130	cagaagctgcccgtgttcaagctta	W59741
17131	tatcagaccgtggtgattgttggag	W59741
17132	cagaccgtggtgattgttggagaaa	W59741
17133	acccaggtcccacagtacctggcag	W59741
17134	caggtcccacagtacctggcagaag	W59741
17135	gtcccacagtacctggcagaagctg	W59741
17136	ccacagtacctggcagaagctggct	W59741

SEQ ID NO:	sequence	DBAxnID
59673	cttcacaatgggcttcaggagatcc	W82071
59674	caggagatccagccacaccacgatc	W82071
59675	ccacaccacgatcttcctgtggtca	W82071
59676	caccacgatcttcctgtggtcaggg	W82071
59677	cgtcagcctgccttgagccaagtcc	W82071
59678	gtggttgcacacggcgtcaaacaga	W82071
59679	cagcctgccttgagccaagtcctgc	W82071
59680	cctgccttgagccaagtcctgcttc	W82071
59681	agccaagtcctgcttcacctgcaga	W82071
59682	gtcctgcttcacctgcagagcgaac	W82071
59683	cttcacctgcagagcgaacaggtac	W82071
59684	cacctgcagagcgaacaggtacctg	W82071
59685	cctggtaagttcttcctggagctgt	W82071
59686	atccagcagattgccatggagatgc	AA089217
59687	accttggagcagctccaagagaagg	AA089217
59688	cacatcaaaaagcccatggacttt	AA089217
59689	cccatggacttttcaccatgaagc	AA089217
59690	gcttaccgctacttgaactttgatg	AA089217
59691	taccgctacttgaactttgatgatt	AA089217
59692	gacttcaacctcattgtcagcaact	AA089217
59693	ttcaacctcattgtcagcaactgcc	AA089217
59694	aacctcattgtcagcaactgcctaa	AA089217
59695	attgtcagcaactgcctaaagtata	AA089217
59696	gtcagcaactgcctaaagtataatg	AA089217
59697	agcaactgcctaaagtataatgcca	AA089217
59698	gacacaggcaacatcttcagcgagc	AA089217
59699	acaggcaacatcttcagcgagccgg	AA089217
59700	atcttcagcgagccggtccctctgt	AA089217
59701	ttcagcgagccggtccctctgtctg	AA089217
59702	gtacccgactacctagaccacatca	AA089217
59703	gactacctagaccacatcaaaaagc	AA089217
59704	tacctagaccacatcaaaaagccca	AA089217
59705	ctagaccacatcaaaaagcccatgg	AA089217
59706	tactggaccgtcgtgtagtgaatgg	X56683
59707	tggaccgtcgtgtagtgaatgggaa	X56683
59708	tctcgaccctgaacgaataatcggc	X56683
59709	tcgaccctgaacgaataatcggcgc	X56683
59710	cgccacagacagcagcggagagtta	X56683
59711	aatgtttctcatgaagtggaaggac	X56683
59712	gtttctcatgaagtggaaggactcg	X56683
59713	cgaggccgacttggtgctggcaaag	X56683
59714	ttgtcattgccttctacgaggagcg	X56683
59715	cattgccttctacgaggagcggctg	X56683
59716	ttgccttctacgaggagcggctgac	X56683
59717	tgccttctacgaggagcggctgact	X56683
59718	gaaatctttatctgacagtgaatct	X56683
59719	aatctttatctgacagtgaatctga	X56683
59720	atctttatctgacagtgaatctgat	X56683
59721	tttatctgacagtgaatctgatgat	X56683
59722	agatgctgctgacaaaccaaggggc	X56683
59723	atgctgctgacaaaccaaggggctt	X56683
59724	tgctgctgacaaaccaaggggcttt	X56683
59725	gtctcgaccctgaacgaataatcgg	X56683
59726	ttggagcccctgagcacatttctca	W82261
59727	ctgagcacatttctcacctacatga	W82261
59728	gccaagtgtcacccactgggccgtt	W82261
59729	tgtcacccactgggccgtttcacag	W82261
59730	cacccactgggccgtttcacagaga	W82261
59731	gaagctgtcaacattgcagagaccc	W82261
59732	gaaacaccattagctccattctttc	W82261
59733	acaccattagctccattctttcaag	W82261
59734	ccattagctccattctttcaagatt	W82261
59735	ccattctttcaagattgtatgtctg	W82261
59736	tctgaaaacactcttgatgaactga	W82261
59737	aacactcttgatgaactgaatattg	W82261
59738	agcacatttctcacctacatgacat	W82261
59739	acatttctcacctacatgacatgca	W82261
59740	ctcacctacatgacatgcagctata	W82261

SEQ ID NO	sequence	DBAxnID
102277	catccgtgagcaccagatggcgaag	D00926
102278	tgagcaccagatggcgaagacaggc	D00926
102279	caccactgacctcttgcggtgtagc	D00926
102280	tgacctcttgcggtgtagcaagtgc	D00926
102281	ttgtacctataaccaggtgcagaca	D00926
102282	ccaggtgcagacacgcagtgctgat	D00926
102283	gcagacacgcagtgctgatgcgccc	D00926
102284	tgctgatgcgcccatgaccacttttt	D00926
102285	catgaccacttttgtcttatgcaat	D00926
102286	caggaagcacagaccacgtgaccca	D00926
102287	ccatatctatcaagaactcaagagc	D00926
102288	ctatcaagaactcaagagcacagac	D00926
102289	agaactcaagagcacagacatgaag	D00926
102290	catgaagtaccggaaccgtgtgcgc	D00926
102291	tgtgcgcagccgcatcagcaacctg	D00926
102292	catctccccagagctcattgccaag	D00926
102293	cccagagctcattgccaagatgaca	D00926
102294	gctcattgccaagatgacagcggag	D00926
102295	atttcataccagtggctacgacaca	M87863
102296	tggctacgacacacaagctgttgtc	M87863
102297	gcttgaacagtggcgttgtgagaag	M87863
102298	tgccccgtggtcaggaatgcctctt	M87863
102299	gatgatctgcctctgagccttgtac	M87863
102300	ctgcctctgagccttgtaccctgta	M87863
102301	cttgtaccctgtagtgacaccaccg	M87863
102302	ccctgtagtgacaccaccggactct	M87863
102303	agtgacaccaccggactctagagga	M87863
102304	gactggcgcactggactgcaaaccc	M87863
102305	ggactgcaaaccccttgcttagtgac	M87863
102306	tgtcccaaataaagggccagacttg	M87863
102307	cgacacacaagctgttgtcaacgac	M87863
102308	caacggcagcacagagtacggactc	M87863
102309	agagtacggactcttccagatcagt	M87863
102310	cggactcttccagatcagtgacaga	M87863
102311	gaacatctgtggcatctcctgtgac	M87863
102312	catctcctgtgacaagttattggat	M87863
102313	gaaagcctacaagcccatgtgctct	M87863
102314	ctacaagcccatgtgctctgagaag	M87863
102315	cccataccatcgcggtcaccatggg	AA166439
102316	ataccatcgcggtcaccatggggaa	AA166439
102317	acaactaccaggactgcactttctt	AA166439
102318	actaccaggactgcactttcttcaa	AA166439
102319	accaggactgcactttcttcaataa	AA166439
102320	actgcactttcttcaataagaagga	AA166439
102321	gcactttcttcaataagaaggacat	AA166439
102322	agaaggacatcctcaagcttcatgc	AA166439
102323	acatcctcaagcttcatgcacggtt	AA166439
102324	tcctcaagcttcatgcacggttcta	AA166439
102325	tcaagcttcatgcacggttctatga	AA166439
102326	ttcatgcacggttctatgagctggc	AA166439
102327	ccatcgcggtcaccatggggaacaa	AA166439
102328	cggtcaccatggggaacaagcagac	AA166439
102329	ggaacaagcagaccatcttcactga	AA166439
102330	acaagcagaccatcttcactgaaga	AA166439
102331	agcagaccatcttcactgaagagca	AA166439
102332	tcttcactgaagagcagctggacaa	AA166439
102333	agcagctggacaactaccaggactg	AA166439
102334	agctggacaactaccaggactgcac	AA166439
102335	agacttcgcgcaattcccaccaaca	W08822
102336	cttcgcgcaattcccaccaacaagg	W08822
102337	ttgggtgtccatctcagctttatca	W08822
102338	ggtgtccatctcagctttatcaggt	W08822
102339	catctcagctttatcaggtccacag	W08822
102340	atcaggtccacagagttggattcga	W08822
102341	gattcgaactggagctggttgcagc	W08822
102342	aactggagctggttgcagctgaggt	W08822
102343	agctggttgcagctgaggtgtatgc	W08822
102344	tgtatgcaggtcggcgggaatgcca	W08822

TABLE 1

SEQ ID NO	sequence	DBAxnID
17137	tacctggcagaagctggctggacag	W59741
17138	gtcagcatctccgaagagagacaaa	W59741
17139	agcatctccgaagagagacaaagtg	W59741
17140	agtgtcactgagaactctgggacaa	W59741
17141	gagaactctgggacaaccgtcattt	W59741
17142	tctgggacaaccgtcatttacaatc	W59741
17143	accgtcatttacaatccctacgctg	W59741
17144	gtcatttacaatccctacgctgccc	W59741
17145	gccctttccatagagcagcagcggc	W59741
17146	aggatgtcttgctccttttctggaa	AA041697
17147	gatgtcttgctccttttctggaaat	AA041697
17148	gcatcttttgctcctggagtggtgt	AA041697
17149	catcttttgctcctggagtggtgtt	AA041697
17150	tttgctcctggagtggtgttttcgc	AA041697
17151	ttgctcctggagtggtgttttcgct	AA041697
17152	ctcctggagtggtgttttcgcttct	AA041697
17153	cccacacacttgagtatttggtctc	AA041697
17154	ccacacacttgagtatttggtctcg	AA041697
17155	cacacacttgagtatttggtctcgt	AA041697
17156	gagtatttggtctcgtccagcctgg	AA041697
17157	agtatttggtctcgtccagcctggc	AA041697
17158	atgtcttgctccttttctggaaata	AA041697
17159	taaactacgtcgtgtgatctttgat	AA041697
17160	actacgtcgtgtgatctttgatgag	AA041697
17161	ctacgtcgtgtgatctttgatgagt	AA041697
17162	acgtcgtgtgatctttgatgagtta	AA041697
17163	ctgaggcatcttttgctcctggagt	AA041697
17164	gaggcatcttttgctcctggagtgg	AA041697
17165	aggcatcttttgctcctggagtggt	AA041697
17166	gacttaattgctcaagcccggacag	W59540
17167	taattgctcaagcccggacaggaac	W59540
17168	tttggctccaacaagggaattggca	W59540
17169	tggctccaacaagggaattggcaaa	W59540
17170	ctcaatgtggcgtgtttttatggtg	W59540
17171	ggaacatcatatcaaagccagatta	W59540
17172	catcatatcaaagccagattaatca	W59540
17173	tcatatcaaagccagattaatcaaa	W59540
17174	gtattgacatccttgttgggacccca	W59540
17175	attgacatccttgttgggacccagg	W59540
17176	tgacatccttgttgggacccaggac	W59540
17177	ggacccaggacgtatcaaagaccat	W59540
17178	agacattctcttttgccataccctt	W59540
17179	acattctcttttgccataccctga	W59540
17180	attctcttttgccataccttgatt	W59540
17181	tctcttttgccataccttgattga	W59540
17182	tcttttgccataccttgattgaaa	W59540
17183	ttgccataccttgattgaaaggct	W59540
17184	gccataccttgattgaaaggctcc	W59540
17185	cataccttgattgaaaggctccaa	W59540
17186	tacttcgtggtcactagggaatatg	U19265
17187	gcacaggacacatacagcccagatg	U19265
17188	ggagtccacgtgcgctctgtgtgcg	U19265
17189	atggatgtcgaccccttttgccatcc	U19265
17190	cccttgccatccagtgtttggatg	U19265
17191	gccatccagtgtttggatgagcatc	U19265
17192	cactaagcgctgctggcagccctgg	U19265
17193	atgctcaaactgtactctcatctgc	U19265
17194	tgactttaaagtcttcctgtcaggg	U19265
17195	taaagtcttcctgtcagggaaactg	U19265
17196	cttcctgtcagggaaactgcatgaa	U19265
17197	gaaactgcatgaatcctacagaata	U19265
17198	gacacatacagcccagatgagttcc	U19265
17199	ctctgggccaccatccaaaggatcc	U19265
17200	gccaccatccaaaggatcccagaag	U19265
17201	aatgccattgctaggtttgtcaagt	U19265
17202	gatgtttccaatggtgccccttatc	U19265
17203	tccaatggtgccccttatccaccgt	U19265
17204	ccttatccaccgtgcagtggagtcc	U19265

SEQ ID NO:	sequence	DBAxnID
59741	acctacatgacatgcagctatatga	W82261
59742	tacatgacatgcagctatatgatag	W82261
59743	ataattctacttatgaatggggcct	W82261
59744	attctacttatgaatggggccttgc	W82261
59745	gttctagccaagtgtcacccactgg	W82261
59746	agcagctccatttttgataaagaaac	W82181
59747	tctcagcgctgggatgaaatgaaca	W82181
59748	gacccatctgcagaatcttctctca	W82181
59749	tctgcagaatcttctctcaaggtga	W82181
59750	gcagaatcttctctcaaggtgactc	W82181
59751	tcttctctcaaggtgactcctcagt	W82181
59752	tctctcaaggtgactcctcagtcag	W82181
59753	ctcaaggtgactcctcagtcagtgg	W82181
59754	aaggtgactcctcagtcagtggcag	W82181
59755	actcctcagtcagtggcagagaggt	W82181
59756	cctcagtcagtggcagagaggtttg	W82181
59757	tttgccacaatggacaatttcctcc	W82181
59758	atgaacatcttggctacctaccacc	W82181
59759	taccaccctgctgacaaagactatg	W82181
59760	caccctgctgacaaagactatggct	W82181
59761	taccacaggctgcaggacaccgatg	W82181
59762	cacaggctgcaggacaccgatgagg	W82181
59763	aggctgcaggacaccgatgaggacc	W82181
59764	gacaccgatgaggacccatctgcag	W82181
59765	gatgaggacccatctgcagaatctt	W82181
59766	tcacaccagccaagccttattgctg	X52574
59767	cagccaagccttattgctgcctatc	X52574
59768	cctttgcagtgctggggatcgaacc	X52574
59769	ttgcagtgctggggatcgaacccag	X52574
59770	ggatcgaacccagagcctcaaatat	X52574
59771	tcgaacccagagcctcaaatatgct	X52574
59772	aacccagagcctcaaatatgctagg	X52574
59773	ccagagcctcaaatatgctaggcaa	X52574
59774	atatgctaggcaagcactctgcccc	X52574
59775	tgctaggcaagcactctgcccctga	X52574
59776	actctgcccctgagctgctttaaga	X52574
59777	ctgcccctgagctgctttaagaaaa	X52574
59778	ccaagccttattgctgcctatccct	X52574
59779	cttattgctgcctatccctgaccca	X52574
59780	attgctgcctatccctgacccagaa	X52574
59781	tcctgtccctgcaagagatgggaag	X52574
59782	tgtccctgcaagagatgggaaggcc	X52574
59783	gaagtttacagcccagaccattccg	X52574
59784	tcctctgctagggaagacaacccaa	X52574
59785	gacaacccaagctgctaaaactcgg	X52574
59786	tcctccatgggatgcatttggacct	Z15103
59787	tatcctgcgtgttccggaaaaagct	Z15103
59788	ctcaggcaacagtctccttggaaga	Z15103
59789	agacccctgtgtgcctcagtattag	Z15103
59790	ccagatcctgctgatgttgcagaag	Z15103
59791	cctgctgatgttgcagaaggagggt	Z15103
59792	tgaatttcttgcatggagatctgat	Z15103
59793	caccccatcaagacagaagctgtcc	Z15103
59794	tctaccgaagttagagcatgtatca	Z15103
59795	tgtatcagttttcccctacagcata	Z15103
59796	cccctacagcatatttcatatgttt	Z15103
59797	gattacatcaagctaattgtgcaag	Z15103
59798	ggaagacctcccaggttcacacaca	Z15103
59799	aggttcacacacatgcgcagctcag	Z15103
59800	atgcgcagctcagatctcagaccca	Z15103
59801	agctcagatctcagacccaacttct	Z15103
59802	agacccaacttctgaggatgctcct	Z15103
59803	tgaggatgctcctgtgaggactggt	Z15103
59804	tgctcctgtgaggactggtgggaaa	Z15103
59805	aacagcctcaggcaacagtctcctt	Z15103
59806	ttggtaagcccgctgatcgacactt	U22056
59807	tgagtctctcttttctggctgaaga	U22056
59808	cagactctgactctcagtgaagttt	U22056

SEQ ID NO	sequence	DBAxnID
102345	aatgccaatgcgactgctttttcc	W08822
102346	gcgactgctttttccgccaacacg	W08822
102347	gccaagagtcctagttgggccagca	W08822
102348	tttttccgccaacacggatgtatgg	W08822
102349	agtcctagttgggccagcatcactt	W08822
102350	agttgggccagcatcacttacggtg	W08822
102351	tgggccagcatcacttacggtgtat	W08822
102352	gccagcatcacttacggtgtatttt	W08822
102353	attgactgctccggagtgcatcgct	W08822
102354	catcgctccttgggtgtccatctca	W08822
102355	tccttgggtgtccatctcagcttta	W08822
102356	tcaataagcttccatgatgataaag	AA166391
102357	taagcttccatgatgataaagagat	AA166391
102358	ttcaggtgtcccagcaggaagacat	AA166391
102359	caggtgtcccagcaggaagacatta	AA166391
102360	ggtgtcccagcaggaagacattacc	AA166391
102361	aagacattaccaagtcactcttggt	AA166391
102362	gacattaccaagtcactcttggtga	AA166391
102363	cattaccaagtcactcttggtgacc	AA166391
102364	ttaccaagtcactcttggtgaccga	AA166391
102365	agtcactcttggtgaccgagttggg	AA166391
102366	tcactcttggtgaccgagttgggct	AA166391
102367	ttggtgaccgagttgggctcgtcca	AA166391
102368	ttgtgtacaactgtgagggagataa	AA166391
102369	gtgaccgagttgggctcgtccagaa	AA166391
102370	taagatgtacaccgggcagaaaagg	AA166391
102371	cttttgtaacggtcagaagcttcag	AA166391
102372	taacggtcagaagcttcaggtgtcc	AA166391
102373	acggtcagaagcttcaggtgtccca	AA166391
102374	agaagcttcaggtgtcccagcagga	AA166391
102375	aagcttcaggtgtcccagcaggaag	AA166391
102376	gcttcaggtgtcccagcaggaagac	AA166391
102377	gggacagccacgccgatgaccccga	AA166246
102378	gacagccacgccgatgaccccgaaa	AA166246
102379	cacagatgttcaaccagctgatgaa	AA166246
102380	cagatgttcaaccagctgatgaagc	AA166246
102381	tgttcaaccagctgatgaagcaagt	AA166246
102382	ttcaaccagctgatgaagcaagtgt	AA166246
102383	caaccagctgatgaagcaagtgtcg	AA166246
102384	agcaagtgtcggctcttacggtaga	AA166246
102385	caagtgtcggctcttacggtagaca	AA166246
102386	agtgtcggctcttacggtagacacg	AA166246
102387	tgtcggctcttacggtagacacgga	AA166246
102388	tcggctcttacggtagacacggagg	AA166246
102389	cgccgatgaccccgaaagcattaag	AA166246
102390	gatgaccccgaaagcattaagactc	AA166246
102391	tgaccccgaaagcattaagactcag	AA166246
102392	gaataaactgacaccacagatgttc	AA166246
102393	aaactgacaccacagatgttcaacc	AA166246
102394	actgacaccacagatgttcaaccag	AA166246
102395	acaccacagatgttcaaccagctga	AA166246
102396	accacagatgttcaaccagctgatg	AA166246
102397	cggacacgtagattccggcagagtc	AA165847
102398	ggacacgtagattccggcagagtca	AA165847
102399	aagctgaacgtgactggcgtatcag	AA165847
102400	gaacgtgactggcgtatcagtattg	AA165847
102401	aacgtgactggcgtatcagtattga	AA165847
102402	acgtgactggcgtatcagtattgag	AA165847
102403	aattcgagaccagcagtactatgtg	AA165847
102404	attcgagaccagcagtactatgtga	AA165847
102405	ttcgagaccagcagtactatgtgac	AA165847
102406	tcgagaccagcagtactatgtgacc	AA165847
102407	gagaccagcagtactatgtgaccat	AA165847
102408	agaccagcagtactatgtgaccatc	AA165847
102409	gacacgtagattccggcagagtcac	AA165847
102410	acacgtagattccggcagagtcacg	AA165847
102411	acgtagattccggcagagtcacgag	AA165847
102412	cgtagattccggcagagtcacgaga	AA165847

TABLE 1

SEQ ID NO	sequence	DBAxnID
17205	ccaccgtgcagtggagtccacgtgc	U19265
17206	gtcgtgacccaggtcgcacgctttc	W59544
17207	tcgtgacccaggtcgcacgctttcg	W59544
17208	gtgacttggatgccggcggtccctg	W59544
17209	acttggatgccggcggtccctgccg	W59544
17210	ggtccctgccgaaagagggaagatg	W59544
17211	gtccctgccgaaagagggaagatgg	W59544
17212	tccctgccgaaagagggaagatggc	W59544
17213	acaagagtcagaacctccggagact	W59544
17214	caagagtcagaacctccggagactg	W59544
17215	aagagtcagaacctccggagactgc	W59544
17216	agagtcagaacctccggagactgca	W59544
17217	tcagaacctccggagactgcaggcc	W59544
17218	cgtgacccaggtcgcacgctttcgg	W59544
17219	gtgacccaggtcgcacgctttcggc	W59544
17220	tgacccaggtcgcacgctttcggct	W59544
17221	gacccaggtcgcacgctttcggctc	W59544
17222	acgctttcggctccgcgcctggcaa	W59544
17223	gctccgcgcctggcaatagggtgac	W59544
17224	ctccgcgcctggcaatagggtgact	W59544
17225	cgcgcctggcaatagggtgacttgg	W59544
17226	ttttcaagcgcagatcacatcttgc	W59745
17227	ttcaagcgcagatcacatcttgctt	W59745
17228	gtgttgttcggcacagtctacgagc	W59745
17229	tgttgttcggcacagtctacgagct	W59745
17230	ttgttcggcacagtctacgagctga	W59745
17231	tgttcggcacagtctacgagctgag	W59745
17232	ggcacagtctacgagctgagaaaca	W59745
17233	gcacagtctacgagctgagaaacag	W59745
17234	acagtctacgagctgagaaacagtg	W59745
17235	aaggcgattcctgaacctccagtgg	W59745
17236	aggcgattcctgaacctccagtggc	W59745
17237	gcgattcctgaacctccagtggcct	W59745
17238	tcaagcgcagatcacatcttgcttc	W59745
17239	cgattcctgaacctccagtggcctt	W59745
17240	aagcgcagatcacatcttgcttcca	W59745
17241	agcgcagatcacatcttgcttccaa	W59745
17242	cgcagatcacatcttgcttccaatt	W59745
17243	tacccctgagactgaagatgacgtg	W59745
17244	acccctgagactgaagatgacgtga	W59745
17245	cgtgaggccgtgttgttccggcacag	W59745
17246	gccgtgttgttcggcacagtctacg	W59745
17247	gactatgaggctggcgttgtctcct	L27990
17248	ttctacaacataactgaccatggct	L27990
17249	tcctggggaccatttctggatactg	L27990
17250	tttctggatactgctgctcacttcc	L27990
17251	gatactgctgctcacttcctgttgg	L27990
17252	gtgttcttcagccatgcactttgtc	L27990
17253	ttcagccatgcactttgtcattttg	L27990
17254	catgcactttgtcattttgacccat	L27990
17255	gcatcagctggacataactgaaaat	L27990
17256	tcaaatgaccttcaccatcaatata	L27990
17257	gaccttcaccatcaatatacctgac	L27990
17258	caccatcaatatacctgacatagat	L27990
17259	tttgctggacctctgcgacctttct	L27990
17260	aatatacctgacatagattccgccg	L27990
17261	ggacctctgcgacctttcttcaatg	L27990
17262	gcgcctctaaagctctgtccactaa	L27990
17263	ctctgtccactaaagatgtgatggt	L27990
17264	tcaggagccagtgcctactgacggt	L27990
17265	gccagtgcctactgacggtacttcc	L27990
17266	ctcctcctgtcctgatcaagatcca	L27990
17267	agatccagtgactcctggggaccat	L27990
17268	cccctgaagtcagcactgtggacgc	W59747
17269	ccctgaagtcagcactgtggacgcc	W59747
17270	agtgaagcctgccagtgatcctggg	W59747
17271	ggtgtctgtcacacggccatgacaa	W59747
17272	gtctgtcacacggccatgacaacaa	W59747

SEQ ID NO:	sequence	DBAxnID
59809	ctctcatggatcattgctatcgatg	U22056
59810	tggatcattgctatcgatgtcttgt	U22056
59811	attgctatcgatgtcttgtatttgc	U22056
59812	tttagggcatgctgttcagtgtaat	U22056
59813	gcatgctgttcagtgtaatgtgtgg	U22056
59814	atacttgtgttgctcatctcagaaa	U22056
59815	gtgttgctcatctcagaaacaactg	U22056
59816	cctgtcagctcctgttcataaaata	U22056
59817	agctcctgttcataaaatagaaggc	U22056
59818	ttttactgtgctgtctaatgctgat	U22056
59819	gtctaatgctgatcgcctacctctg	U22056
59820	tgctgatcgcctacctctggtctga	U22056
59821	tcgcctacctctggtctgaagtaca	U22056
59822	ctccaccgagttcatcagagtcttc	U22056
59823	catcagagtcttcgtcttcatcatc	U22056
59824	agtcttcgtcttcatcatcctggtc	U22056
59825	cgtcttcatcatcctggtcagactc	U22056
59826	ttccagctgcagtttggcagtaact	X06246
59827	aactggactgatgtctatggaaccc	X06246
59828	gcatgctcagagctcagtcctgcat	X06246
59829	tgctcagagctcagtcctgcatctc	X06246
59830	tcagagctcagtcctgcatctccac	X06246
59831	agtcctgcatctccacatggcagcg	X06246
59832	aatataccaggagactccaggctgg	X06246
59833	aagcccaaatgccttttatctctct	X06246
59834	cccaaatgccttttatctctctctg	X06246
59835	cttttatctctctctgtctaataaa	X06246
59836	ttatctctctctgtctaataaacta	X06246
59837	tctctctctgtctaataaactatgt	X06246
59838	tttatagacttccttctggaggacg	X06246
59839	gcagtgatctgcctgacttccctga	X06246
59840	atctgcctgacttccctgaccttca	X06246
59841	tgcctgacttccctgaccttcacta	X06246
59842	tccctgaccttcactacaaacaagg	X06246
59843	tacttcagtgacactggaggttcag	X06246
59844	ggaatgcatgcaccgggcctctgcg	X06246
59845	atgcatgcaccgggcctctgcgtca	X06246
59846	agcagagacctcctcagcctggagg	
59847	gacctcctcagcctggaggaaacca	
59848	gacctcctcagccaggaaaccatca	
59849	ctcagccaggaaaccatcaaggccc	
59850	caggaaaccatcaaggcccacctca	
59851	aaggcccacctcagcatggaaacaa	
59852	cacctcagcatggaaacaatgaaca	
59853	atgaacagccaagttacctgtggtc	
59854	tgtggtcacttttttgcttaaccatc	
59855	aaccatctcattccttaccagagag	
59856	agatgacttcaataccattcttata	
59857	taccattcttatagcagaatgatgt	
59858	ctcctccaaggcctggaaaccagca	
59859	gaggccccccagcagagacccactca	
59860	cccagcagagacccactcagcctgg	
59861	ccactcagcctggaaaccaacaagg	
59862	ctcctaggcctggaaaccagcaagg	
59863	gacctcctaggactggaaaccagca	
59864	caccccccacagggaggccctcagag	
59865	ctcagagacctcctcagccaggaaa	
59866	ataccattcttatagcagaatgatg	
59867	ataccattcttatagcagaatgatg	
59868	taccattcttatagcagaatgatgt	
59869	tcatgtgtgtctggtctgtgagcat	X15378
59870	gtgtctggtctgtgagcatgggcaa	X15378
59871	aaatcagccacggcttgttagaggg	X15378
59872	gctcccatgtgctaggcactgtgct	X15378
59873	gaatgccaaatcctcgatcaccttc	X15378
59874	ctcgatcaccttctggttggcagaa	X15378
59875	caccttctggttggcagaaacaagg	X15378
59876	ttctgggccagctctgcttaactgg	X15378

SEQ ID NO	sequence	DBAxnID
102413	gtagattccggcagagtcacgagaa	AA165847
102414	attccggcagagtcacgagaaccgg	AA165847
102415	gagtcacgagaaccggccacctgat	AA165847
102416	agtcacgagaaccggccacctgatc	AA165847
102417	cgagctctgagcactggatagcgat	W09003
102418	gagctctgagcactggatagcgatg	W09003
102419	aaatgcgtcacgcacatacaaacac	W09003
102420	aatgcgtcacgcacatacaaacacg	W09003
102421	atgcgtcacgcacatacaaacacgt	W09003
102422	tgcgtcacgcacatacaaacacgtt	W09003
102423	gcgtcacgcacatacaaacacgttt	W09003
102424	cgtcacgcacatacaaacacgtttc	W09003
102425	gtcacgcacatacaaacacgtttcc	W09003
102426	tcacgcacatacaaacacgtttccc	W09003
102427	cacgcacatacaaacacgtttccca	W09003
102428	cgcacatacaaacacgtttcccaat	W09003
102429	agctctgagcactggatagcgatga	W09003
102430	gcacatacaaacacgtttcccaatc	W09003
102431	gctctgagcactggatagcgatgat	W09003
102432	cggcaagtccatctacggagatagg	W09003
102433	ggcatcttgtccatgagaaatgcgt	W09003
102434	gcatcttgtccatgagaaatgcgtc	W09003
102435	catcttgtccatgagaaatgcgtca	W09003
102436	atcttgtccatgagaaatgcgtcac	W09003
102437	gaaatgcgtcacgcacatacaaaca	W09003
102438	cagtccccgggagcatcagtccgcg	AA165827
102439	ccaggtgcgaccaagcctgacgcgg	AA165827
102440	gccacagttcggtgacgagtatgat	AA165827
102441	ggagtttccctgccttccaggcatt	AA165827
102442	tttccctgccttccaggcattctgt	AA165827
102443	tccctgccttccaggcattctgtga	AA165827
102444	ccttccaggcattctgtgagacaca	AA165827
102445	ttccaggcattctgtgagacacaag	AA165827
102446	gcattctgtgagacacaaggagaca	AA165827
102447	ctgcagtgcatgagtcgtgtaatgc	AA165827
102448	cagtagcatggctgtcgcagcaaca	AA165827
102449	agcatggctgtcgcagcaacatcaa	AA165827
102450	aggtgcgaccaagcctgacgcggag	AA165827
102451	catggctgtcgcagcaacatcaaaa	AA165827
102452	gtgcgaccaagcctgacgcggagat	AA165827
102453	gaccaagcctgacgcggagatggta	AA165827
102454	ccaagcctgacgcggagatggtact	AA165827
102455	gatgcagacagcttcgtaaagtttg	AA165827
102456	gtttgcacttgggtcggtagtggca	AA165827
102457	gcacttgggtcggtagtggcagtta	AA165827
102458	ctgccacagttcggtgacgagtatg	AA165827
102459	gtcaacatcttgtattggtgttaga	AA165880
102460	acaaggacctgcaaaagctgccttg	AA165880
102461	gatcacagaataccttctatgtgct	AA165880
102462	cacagaataccttctatgtgctaaa	AA165880
102463	ccttctatgtgctaaaccctcacag	AA165880
102464	tctatgtgctaaaccctcacagtaa	AA165880
102465	taaaccctcacagtaacctgtcgag	AA165880
102466	accctcacagtaacctgtcgagcac	AA165880
102467	acagtaacctgtcgagcacagagga	AA165880
102468	acctgtcgagcacagaggagagatt	AA165880
102469	gatttcgagccagttttagcagtga	AA165880
102470	ttcgagccagttttagcagtgaaac	AA165880
102471	acctgcaaaagctgccttgggaaag	AA165880
102472	tgcaaaagctgccttgggaaagcac	AA165880
102473	cttcctgctcagctacacagtcact	AA165880
102474	gctcagctacacagtcactagagag	AA165880
102475	ctacacagtcactagagaggctgga	AA165880
102476	cacagtcactagagaggctggagct	AA165880
102477	agtcactagagaggctggagctcat	AA165880
102478	gttgatcacagaataccttctatgt	AA165880
102479	tctatctctgtctcttcctatggat	AA165907
102480	tatctctgtctcttcctatggatca	AA165907

TABLE 1

SEQ ID NO	sequence	DBAxnID
17273	tctgtcacacggccatgacaacaat	W59747
17274	gtcacacggccatgacaacaatgct	W59747
17275	cacacggccatgacaacaatgctga	W59747
17276	acacggccatgacaacaatgctgag	W59747
17277	acggccatgacaacaatgctgagac	W59747
17278	cggccatgacaacaatgctgagaca	W59747
17279	gccatgacaacaatgctgagacaag	W59747
17280	tgaagtcagcactgtggacgccatg	W59747
17281	aagtcagcactgtggacgccatgtt	W59747
17282	agtcagcactgtggacgccatgttg	W59747
17283	tcagcactgtggacgccatgttgga	W59747
17284	cagcactgtggacgccatgttggat	W59747
17285	cactgtggacgccatgttggatctg	W59747
17286	ctgtggacgccatgttggatctgat	W59747
17287	aagtgaagcctgccagtgatcctgg	W59747
17288	acgccatgaacaacattgtggcgaa	W59752
17289	acaacattgtggcgaatctgctcct	W59752
17290	tcccacagcttcattatctcgtgtc	W59752
17291	agcttcattatctcgtgtcaagcct	W59752
17292	attatctcgtgtcaagcctgacacc	W59752
17293	tcgtgtcaagcctgacaccgctgta	W59752
17294	tgtcaagcctgacaccgctgtacac	W59752
17295	caagcctgacaccgctgtacacgct	W59752
17296	tgacaccgctgtacacgctggcgga	W59752
17297	caccgctgtacacgctggcggatgt	W59752
17298	cgctgtacacgctggcggatgttaa	W59752
17299	acacgctggcggatgttaacattcc	W59752
17300	cgaatctgctcctcagcctgacaag	W59752
17301	tgctcctcagcctgacaagctctgc	W59752
17302	tcagcctgacaagctctgcgaggtt	W59752
17303	gcctgacaagctctgcgaggttcga	W59752
17304	tgacaagctctgcgaggttcgaggg	W59752
17305	tcgagggctccctgaatatggacct	W59752
17306	agggctccctgaatatggacctgaa	W59752
17307	gctccctgaatatggacctgaatga	W59752
17308	gcataagcctcaaggacagggaaag	D10217
17309	tgttcagtgtcccctcaagcaaact	D10217
17310	acagctatcttcggtcatccttgag	D10217
17311	ggtcatccttgaggtcaacagcatc	D10217
17312	cagcatcatattgctccagggacag	D10217
17313	catattgctccagggacagtcgggg	D10217
17314	ttatgccttatgctgcaaataagaa	D10217
17315	tctaagatcttccatcagtgtttat	D10217
17316	atcttccatcagtgtttatctataa	D10217
17317	ggatgtccaatagcaccctactagg	D10217
17318	ccaatagcaccctactaggaggaag	D10217
17319	gcaccctactaggaggaagaggata	D10217
17320	gtgtcccctcaagcaaactcttggg	D10217
17321	tcccccaaggtctggaggacagcaa	D10217
17322	gcaaatctctcttgccagaccatac	D10217
17323	tgccagaccatacctctgataatcc	D10217
17324	accatacctctgataatcctttcct	D10217
17325	accaacgcttagttattgggagatg	D10217
17326	aacactcattgccatcacaggcagt	D10217
17327	cattgccatcacaggcagtaaatga	D10217
17328	ttcggtactcctgggtgtagcacat	U00478
17329	agcacatttggagcctggggtcagc	U00478
17330	agcaggctttctacctgcttaccct	U00478
17331	ctttctacctgcttaccctctgtgg	U00478
17332	cagtgaccattacccagtggaggtg	U00478
17333	ccattacccagtggaggtgacactc	U00478
17334	aatctgatgtcattgagcagttcag	U00478
17335	gccatactgcttctggtgaggaaga	U00478
17336	cttcaactctatttggtactacagc	U00478
17337	ttggtactacagcattccaccatct	U00478
17338	ctacagcattccaccatctcagaac	U00478
17339	accatctcagaacagagaaaacgtc	U00478
17340	tttggagcctggggtcagcaaactc	U00478
59877	tctgcttaactggccatttctcctt	X15378
59878	tggccttcctgtgctatttgtacct	X15378
59879	tcctgtgctatttgtacctgaggtt	X15378
59880	gctatttgtacctgaggttcacact	X15378
59881	gtgcctgccaatcacatgagtctgg	X15378
59882	cacatgagtctgggctcactgctta	X15378
59883	agtctgggctcactgcttaggacaa	X15378
59884	cagtgagcagacagcccgagttcaa	X15378
59885	agttcaagtcatcaccctgtagcac	X15378
59886	gtagcacagtactgtgtgtgacttt	X15378
59887	cagtactgtgtgtgactttggccaa	X15378
59888	gataaattctcttccttataaatga	X15378
59889	agctgctaaaccaggctgacccctg	W82053
59890	taaaccaggctgacccctgtgtcca	W82053
59891	agatccacatcagtgtatctgaacc	W82053
59892	cagtgtatctgaacccattattcca	W82053
59893	gtatctgaacccattattccattca	W82053
59894	atctgaacccattattccattcaga	W82053
59895	ctgaacccattattccattcagaga	W82053
59896	gaacccattattccattcagagaaa	W82053
59897	ccattattccattcagagaaacgat	W82053
59898	attattccattcagagaaacgatca	W82053
59899	tattccattcagagaaacgatcaca	W82053
59900	cctcccaaagttgacatggtcaatg	W82053
59901	agagcatgtcctggtcacggccggg	W82053
59902	agcaaagcaaaatcccagaggggat	W82053
59903	ggaggtccaccttcagcgatgtttg	W82053
59904	gtccaccttcagcgatgtttggatg	W82053
59905	ccaccttcagcgatgtttggatgac	W82053
59906	accttcagcgatgtttggatgactt	W82053
59907	cttcagcgatgtttggatgacttac	W82053
59908	ttgcaaagatccacatcagtgtatc	W82053
59909	gcaaagatccacatcagtgtatctg	W82053
59910	aggacacttcacattatactggaac	X63440
59911	acacttcacattatactggaacact	X63440
59912	tgcctccttatactaacaggcaagt	X63440
59913	ctccttatactaacaggcaagtagg	X63440
59914	aattctgcatggtctaagtctttgt	X63440
59915	ttcatgcagccagcattgcaggtta	X63440
59916	tctaattgttcatcctaatggttct	X63440
59917	ttcttgttttcatctagtcatggag	X63440
59918	gattcagtaagtgccttggaagaat	X63440
59919	tcagtaagtgccttggaagaatatt	X63440
59920	ctcttagctcgtgtgtgttacttta	X63440
59921	tgaattcaactggggttagaagact	X63440
59922	attatactggaacactcgaagtcca	X63440
59923	atactggaacactcgaagtccactg	X63440
59924	cactcgaagtccactgaaagccagg	X63440
59925	tcgaagtccactgaaagccaggctt	X63440
59926	tccactgaaagccaggcttatagta	X63440
59927	gcttatagtattccatctttaatgt	X63440
59928	attccatctttaatgtgggagctag	X63440
59929	acctgcctccttatactaacaggca	X63440
59930	cttgattttctcatccctgctgctt	AA119121
59931	gattttctcatccctgctgctttag	AA119121
59932	gatcctctataatgctggtgagaac	AA119121
59933	cctctataatgctggtgagaacaaa	AA119121
59934	agacaaattcaccgaggtcttgtgt	AA119121
59935	attcaccgaggtcttgtgtctacgg	AA119121
59936	cgaggtcttgtgtctacggagcttc	AA119121
59937	ggtcttgtgtctacggagcttcccg	AA119121
59938	tctacggagcttcccgcagctgaaa	AA119121
59939	gagcttcccgcagctgaaactaaca	AA119121
59940	cttcccgcagctgaaactaacattt	AA119121
59941	cccgcagctgaaactaacatttgat	AA119121
59942	ctcatccctgctgctttagggtaga	AA119121
59943	atccctgctgctttagggtagaaga	AA119121
59944	cctgctgctttagggtagaagagat	AA119121
102481	gcgaaactacatttctattgggcag	AA165907
102482	cgaaactacatttctattgggcagt	AA165907
102483	aaactacatttctattgggcagtgt	AA165907
102484	aactacatttctattgggcagtgtt	AA165907
102485	actacatttctattgggcagtgttt	AA165907
102486	tacatttctattgggcagtgtttct	AA165907
102487	acatttctattgggcagtgtttcta	AA165907
102488	catttctattgggcagtgtttctaa	AA165907
102489	tttctattgggcagtgtttctaaag	AA165907
102490	ttctattgggcagtgtttctaaagg	AA165907
102491	atctctgtctcttcctatggatcag	AA165907
102492	tctctgtctcttcctatggatcaga	AA165907
102493	tcttcctatggatcagatcaggata	AA165907
102494	ttcctatggatcagatcaggatata	AA165907
102495	ttctcaatatgtggctacaaagcaa	AA165907
102496	aatattagcacatgtaggcgaaact	AA165907
102497	atattagcacatgtaggcgaaacta	AA165907
102498	tattagcacatgtaggcgaaactac	AA165907
102499	gctgcctttccttctggaatgctgc	AA111487
102500	gcctttccttctggaatgctgcaat	AA111487
102501	tctccagtctgcccctgatttttga	AA111487
102502	tgcccctgatttttgaaacattgtt	AA111487
102503	ccccaaattatcgagactccaacag	AA111487
102504	caaattatcgagactccaacagtag	AA111487
102505	attatcgagactccaacagtagccc	AA111487
102506	gagactccaacagtagcccttgagg	AA111487
102507	actccaacagtagcccttgaggcgt	AA111487
102508	gtagcccttgaggcgtttatcttct	AA111487
102509	gcgtttatcttctggcctggtttat	AA111487
102510	tttatcttctggcctggtttataga	AA111487
102511	ccttctggaatgctgcaattaggag	AA111487
102512	tcactatgccctgtttatatagtgc	AA111487
102513	ctatgccctgtttatatagtgctgg	AA111487
102514	atgccagatgagcactctaccaact	AA111487
102515	gatgagcactctaccaactaagcca	AA111487
102516	accaactaagccacatctccagtct	AA111487
102517	aactaagccacatctccagtctgcc	AA111487
102518	acatctccagtctgcccctgatttt	AA111487
102519	ccattaggtcacactgagagtactg	M63419
102520	acaatcactgtgtgataggaagaag	M63419
102521	ctgcctgctttgctgtgagagtctc	M63419
102522	cctgctttgctgtgagagtctcatg	M63419
102523	ttgctgtgagagtctcatggctccc	M63419
102524	tgagagtctcatggctccctgatgg	M63419
102525	catggctccctgatggttgtggaag	M63419
102526	ctgctaactctgagtccaaaggatg	M63419
102527	ctaactctgagtccaaaggatgcca	M63419
102528	actctgagtccaaaggatgccagga	M63419
102529	caatatcccaacaattgcttccctg	M63419
102530	tgcttccctgatggtaactgagtcc	M63419
102531	ctctccatcaccgtttatctctcaa	M63419
102532	atcaccgtttatctctcaatctatg	M63419
102533	accgtttatctctcaatctatgaac	M63419
102534	tcaatctatgaacctgtgagagcaa	M63419
102535	atctatgaacctgtgagagcaatca	M63419
102536	catatctcgcctggcctagcttgtt	M63419
102537	ggcctagcttgtttagccaaggatg	M63419
102538	tgtttagccaaggatggcaggacag	M63419
102539	gttatgcatcactgcatgtcatcat	AA166322
102540	tatgcatcactgcatgtcatcatgc	AA166322
102541	gaagatcgtcactgtgcgaggatat	AA166322
102542	atcgtcactgtgcgaggatattctt	AA166322
102543	cgtcactgtgcgaggatattctttg	AA166322
102544	taaattgttcgtgatcatgaagaca	AA166322
102545	agacacactgtgttatgtcgactgg	AA166322
102546	acacactgtgttatgtcgactggat	AA166322
102547	actgtgttatgtcgactggattttg	AA166322
102548	ttatgtcgactggattttgagaacg	AA166322

TABLE 1

SEQ ID NO	sequence	DBAxnID
17341	cttcttctttgatatcctacaggat	U00478
17342	ctttgatatcctacaggattgtggt	U00478
17343	tatcctacaggattgtggttgtccg	U00478
17344	ttgtccgagctctgctccaggctgc	U00478
17345	ctgttccttttgatttccaagcaga	U00478
17346	tagcctggagccaagcaggagctac	U00478
17347	gagctactgtttccatactagatgt	U00478
17348	tgcagctgcaacagatccaggggct	U13921
17349	aacagatccaggggctcatcagcag	U13921
17350	tgtgatgcccagtcccattggcccc	U13921
17351	cccaggacccatggctctgacaagc	U13921
17352	aggacccatggctctgacaagccct	U13921
17353	catggctctgacaagccctgagggt	U13921
17354	catctcttctgattggaatctttct	U13921
17355	ctaccccattctctctattctttgg	U13921
17356	ctctattctttggccttctcagtgt	U13921
17357	ttggccttctcagtgtctctacaac	U13921
17358	gccttctcagtgtctctacaacaaa	U13921
17359	gtgtctctacaacaaagaatagatg	U13921
17360	agatccaggggctcatcagcagcat	U13921
17361	ggctcatcagcagcatcgaggctca	U13921
17362	tcatcagcagcatcgaggctcagct	U13921
17363	agctgagcgagctccgaagtgagat	U13921
17364	tgagcgagctccgaagtgagatgga	U13921
17365	ctaagatgaccggcttcaactccgg	U13921
17366	agatgaccggcttcaactccggagg	U13921
17367	cttcagcagccacaggaggagagct	U13921
17368	tctactccatgggtgacctgctctt	W59755
17369	actccatgggtgacctgctcttcag	W59755
17370	cttacaagtgccaaaagacactgga	W59755
17371	acaagtgccaaaagacactggaagg	W59755
17372	cgctctgtatccaggggtgcaaact	W59755
17373	tctgtatccaggggtgcaaactgta	W59755
17374	ggtctgcagactgcaccatcattgt	W59755
17375	cagactgcaccatcattgtatggga	W59755
17376	gcaccatcattgtatgggacatcca	W59755
17377	tatgggacatccagaacctgcagaa	W59755
17378	gggacatccagaacctgcagaaggt	W59755
17379	acatccagaacctgcagaaggtgaa	W59755
17380	acctgctcttcagtggctcttctga	W59755
17381	tgctcttcagtggctcttctgacaa	W59755
17382	tcagtggctcttctgacaagacgat	W59755
17383	gtggctcttctgacaagacgatcaa	W59755
17384	gctcttctgacaagacgatcaaggt	W59755
17385	cttctgacaagacgatcaaggtgtg	W59755
17386	acacgtgtaccacttacaagtgcca	W59755
17387	ccacttacaagtgccaaaagacact	W59755
17388	ccatgctgatccaggaggctctggt	L06234
17389	tgatccaggaggctctggttcgagg	L06234
17390	ttagaaataccatgaccaaaagcca	L06234
17391	ggttagcccagcttagcagcctccc	L06234
17392	cctggcccctcagtagccagctgta	L06234
17393	ccctcagtagccagctgtatggact	L06234
17394	gtagccagctgtatggactgagtag	L06234
17395	ccattcacaaaggcctgatcggtgc	L06234
17396	tctgtctgtcataaagccactctat	L06234
17397	aaagccactctatcttgctggacat	L06234
17398	actctatcttgctggacattaaagt	L06234
17399	ttaaagtctccaggcctgactttgg	L06234
17400	tagactccttagcagcagatgctaa	L06234
17401	acttcgtcatggcaacaggccaggc	L06234
17402	tcatggcaacaggccaggccctggc	L06234
17403	caacaggccaggccctggcagatgc	L06234
17404	cagatgcctgccagatggaaccaga	L06234
17405	cctgccagatggaaccagaggaagt	L06234
17406	cgaccccttattactcccagatgtga	L06234
17407	ttattactcccagatgtgaggccta	L06234
17408	cccacgcagccgaggaagtgtgact	W59776
59945	tgaacatctggccaaaaaggatgct	AA119121
59946	acatctggccaaaaaggatgctcag	AA119121
59947	ggatgctcagatcctctataatgct	AA119121
59948	tgctcagatcctctataatgctggt	AA119121
59949	tcagatcctctataatgctggtgag	AA119121
59950	tttattaggtcttctcaccttagag	X74855
59951	ttaggtcttctcaccttagagaaca	X74855
59952	gctcctaccttagagcccatcagaa	X74855
59953	tcctaccttagagcccatcagaaaa	X74855
59954	tatgacaaacccaatacccaggact	X74855
59955	atttatccagtattctatctgctta	X74855
59956	ttatccagtattctatctgcttata	X74855
59957	ccagtattctatctgcttataagtc	X74855
59958	agtattctatctgcttataagtcat	X74855
59959	tattctatctgcttataagtcataa	X74855
59960	ttctatctgcttataagtcataaga	X74855
59961	ctatctgcttataagtcataagaat	X74855
59962	aggtcttctcaccttagagaacatc	X74855
59963	cttctcaccttagagaacatcagaa	X74855
59964	tctcaccttagagaacatcagaaaa	X74855
59965	acatatcatttagccagatttcaaa	X74855
59966	atatcatttagccagatttcaaatc	X74855
59967	ctcataactcaaattttagaacaca	X74855
59968	aaccttatagatgtgccgaatgtga	X74855
59969	tttactaggtgctcctaccttagag	X74855
59970	gactcaggtcccatgtagtgacctg	W82936
59971	tcaggtcccatgtagtgacctgctg	W82936
59972	gaatcaactggactatatcatccgc	W82936
59973	actggactatatcatccgcagccat	W82936
59974	ggactatatcatccgcagccatgaa	W82936
59975	ctatatcatccgcagccatgaagtc	W82936
59976	tatcatccgcagccatgaagtcaaa	W82936
59977	catccgcagccatgaagtcaaagcc	W82936
59978	tgaagtcaaagccgagggcgacgag	W82936
59979	tggtggccgctgtgtcactgtcttt	W82936
59980	caactattgtgaccagatgggaaac	W82936
59981	ctattgtgaccagatgggaaacaaa	W82936
59982	cccatgtagtgacctgctgtagtca	W82936
59983	atgtagtgacctgctgtagtcagat	W82936
59984	gagttgccagtttgggcctgatgtc	W82936
59985	ttgccagtttgggcctgatgtcacc	W82936
59986	tgggcctgatgtcaccaaggccttc	W82936
59987	gcctgatgtcaccaaggccttcctg	W82936
59988	tgatgtcaccaaggccttcctggag	W82936
59989	caaggccttcctggaggagaatcaa	W82936
59990	ggtgatctcatcctacagatggtct	X58289
59991	ctcatcctacagatggtctcggagt	X58289
59992	tacatcaacagaagccccggggctg	X58289
59993	gggccctccgtagtgcactgcagcg	X58289
59994	gaccggatcctccagcagttggact	X58289
59995	atcctccagcagttggactctaagg	X58289
59996	ttggactctaaggactccgtggaca	X58289
59997	tctaaggactccgtggacatttatg	X58289
59998	gactccgtggacatttatggggcag	X58289
59999	gtgcatgacctaagactccacaggg	X58289
60000	gacctaagactccacagggttcaca	X58289
60001	agactccacagggttcacatggtcc	X58289
60002	ttggatgcacacagactcatccgtc	X58289
60003	aatctactcgagacattaagaattc	X58289
60004	gcacacagactcatccgtcactttc	X58289
60005	agactcatccgtcactttcactaca	X58289
60006	atccgtcactttcactacacggtgt	X58289
60007	cactacacggtgtggccagaccatg	X58289
60008	tggccagaccatggggtcccagaga	X58289
60009	cagtccctgatccaatttgtgagga	X58289
60010	agggactacatcaacagaagccccg	X58289
60011	tcctgcccagctgtgtccacagtac	X58287
60012	catcatcagcagaattttcaggatt	X58287
102549	tgattttcgtatctctagagaagac	AA166322
102550	attttcgtatctctagagaagactg	AA166322
102551	tgcatcactgcatgtcatcatgcgc	AA166322
102552	tttcgtatctctagagaagactgtg	AA166322
102553	catcactgcatgtcatcatgcgcct	AA166322
102554	tgcatgtcatcatgcgcctggatat	AA166322
102555	tggtcaggactcactgattacctga	AA166322
102556	gtcaggactcactgattacctgatg	AA166322
102557	caggactcactgattacctgatgaa	AA166322
102558	ggactcactgattacctgatgaaga	AA166322
102559	atgaagatcgtcactgtgcgaggat	AA166322
102560	tgaggtcagacccagacgagaacag	AA165942
102561	gagacaaggccaccggcgtatcact	AA165942
102562	ctacagctagtgtcacttgtgaggg	AA165942
102563	tacagctagtgtcacttgtgagggc	AA165942
102564	ctagtgtcacttgtgagggctgaaa	AA165942
102565	tagtgtcacttgtgagggctgaaag	AA165942
102566	ccgtcgcggcacatccagaacaatc	AA165942
102567	cgtcgcggcacatccagaacaatct	AA165942
102568	cgcggcacatccagaacaatctcca	AA165942
102569	cggcacatccagaacaatctccatc	AA165942
102570	ggcacatccagaacaatctccatcc	AA165942
102571	tattcctggaagtatcacagctggc	AA165942
102572	acaaggccaccggcgtatcactaca	AA165942
102573	aaggccaccggcgtatcactacagc	AA165942
102574	gccaccggcgtatcactacagctag	AA165942
102575	ccaccggcgtatcactacagctagt	AA165942
102576	accggcgtatcactacagctagtgt	AA165942
102577	ggcgtatcactacagctagtgtcac	AA165942
102578	tatcactacagctagtgtcacttgt	AA165942
102579	cactacagctagtgtcacttgtgag	AA165942
102580	agctttgctgattacagtgttagag	U20225
102581	gagttactactgtgttctgcggcac	U20225
102582	ggcactcctttacacactcaggagg	U20225
102583	cactcctttacacactcaggaggca	U20225
102584	ctcctttacacactcaggaggcaga	U20225
102585	cctttacacactcaggaggcagagg	U20225
102586	tttacacactcaggaggcagaggca	U20225
102587	tacacactcaggaggcagaggcagg	U20225
102588	ggccagcctggtctacaaaacaagt	U20225
102589	gtctacaaaacaagttccaggacag	U20225
102590	tacaaaacaagttccaggacagcca	U20225
102591	cctgtctcaacaaacaaacaaacag	U20225
102592	gttactactgtgttctgcggcactc	U20225
102593	ctactgtgttctgcggcactccttt	U20225
102594	actgtgttctgcggcactcctttac	U20225
102595	tgtgttctgcggcactcctttacac	U20225
102596	tgttctgcggcactcctttacacac	U20225
102597	ttctgcggcactcctttacacactc	U20225
102598	ctgcggcactcctttacacactcag	U20225
102599	gcggcactcctttacacactcagga	U20225
102600	tgttcctggagcatgcgcttatcca	AA165963
102601	tcctggagcatgcgcttatccaata	AA165963
102602	acagccccttcttcatgaggaaaga	AA165963
102603	ccttcttcatgaggaaagaggtcat	AA165963
102604	aagtggcccagctcagccagtttga	AA165963
102605	tggcccagctcagccagtttgatga	AA165963
102606	cccagctcagccagtttgatgaaga	AA165963
102607	agctcagccagtttgatgaagaact	AA165963
102608	agtcagatgacaactcctatgacga	AA165963
102609	cagatgacaactcctatgacgagaa	AA165963
102610	atgacaactcctatgacgagaaata	AA165963
102611	acaactcctatgacgagaaatacat	AA165963
102612	agcatgcgcttatccaatatgcact	AA165963
102613	atgcgcttatccaatatgcactgcg	AA165963
102614	cgcttatccaatatgcactgcgtac	AA165963
102615	ttatccaatatgcactgcgtacctt	AA165963
102616	tccaatatgcactgcgtaccttggg	AA165963

TABLE 1

SEQ ID NO	sequence	DBAxnID
17409	ccacgcagccgaggaagtgtgactt	W59776
17410	actacgatgcctctgatgtcgtcct	W59776
17411	ctacgatgcctctgatgtcgtcctg	W59776
17412	tacgatgcctctgatgtcgtcctgg	W59776
17413	acgatgcctctgatgtcgtcctgga	W59776
17414	ctctgatgtcgtcctggagcttgaa	W59776
17415	tattccaggtgcttttggctgtggg	W59776
17416	attccaggtgcttttggctgtggga	W59776
17417	tccaggtgcttttggctgtgggaag	W59776
17418	cgcaccgcctgggaactacgatgcc	W59776
17419	gcaccgcctgggaactacgatgcct	W59776
17420	caccgcctgggaactacgatgcctc	W59776
17421	tgggaactacgatgcctctgatgtc	W59776
17422	gggaactacgatgcctctgatgtcg	W59776
17423	ggaactacgatgcctctgatgtcgt	W59776
17424	gaactacgatgcctctgatgtcgtc	W59776
17425	aactacgatgcctctgatgtcgtcc	W59776
17426	tgtacgtacttttcaagattgatc	U19582
17427	tttcctgaaaattctcaattcacca	U19582
17428	gtgtaaacaccaatggtctgtcagt	U19582
17429	taaacaccaatggtctgtcagtgtc	U19582
17430	acaccaatggtctgtcagtgtctaa	U19582
17431	ccaatggtctgtcagtgtctaagac	U19582
17432	ctctggatactgcaagctccgtccg	U19582
17433	tggatactgcaagctccgtccggtg	U19582
17434	atactgcaagctccgtccggtgcat	U19582
17435	caagctccgtccggtgcatttgttc	U19582
17436	gctccgtccggtgcatttgttcagg	U19582
17437	tccggtgcatttgttcaggtaaaat	U19582
17438	cctgaaaattctcaattcaccaata	U19582
17439	aattctcaattcaccaatatgaagg	U19582
17440	atgaaccaagcagacgttaatatgc	U19582
17441	taactgactgcccacggtttccagg	U19582
17442	tttttaatcctatggttgcatatgc	U19582
17443	ttctccccttctatttctgtctcca	U19582
17444	tccccttctatttctgtctccattc	U19582
17445	gtctccattctgttagagaccatga	U19582
17446	ttcagcctgatgggcagatgctagc	W59791
17447	gggatgactccttcacacttcttct	W59791
17448	tcacacttcttctgtgaactggagc	W59791
17449	acacttcttctgtgaactggagctg	W59791
17450	cacttcttctgtgaactggagctgg	W59791
17451	acttcttctgtgaactggagctgga	W59791
17452	ttcttctgtgaactggagctggaaa	W59791
17453	tcttctgtgaactggagctggaaac	W59791
17454	cttctgtgaactggagctggaaaca	W59791
17455	ctggaaacatgtgcctcgggagtct	W59791
17456	ggaaacatgtgcctcgggagtcttt	W59791
17457	gaaacatgtgcctcgggagtctttg	W59791
17458	gatgactccttcacacttcttctgt	W59791
17459	atgactccttcacacttcttctgtg	W59791
17460	tgactccttcacacttcttctgtga	W59791
17461	actccttcacacttcttctgtgaac	W59791
17462	ctccttcacacttcttctgtgaact	W59791
17463	tccttcacacttcttctgtgaactg	W59791
17464	cttcacacttcttctgtgaactgga	W59791
17465	ttcacacttcttctgtgaactggag	W59791
17466	ctcgctatccctgtgtgtctgctgt	W59797
17467	tgtctgctgtccgctaagctaaagt	W59797
17468	ccaggtctgcgccgtctggtgctcc	W59797
17469	caggtctgcgccgtctggtgctcca	W59797
17470	gtctggtgctccaggcgcgtacgta	W59797
17471	gtgctccaggcgcgtacgtacgccc	W59797
17472	tgctccaggcgcgtacgtacgccca	W59797
17473	tccaggcgcgtacgtacgcccaggc	W59797
17474	gtgttctttgatggtgccaatgtcc	W59797
17475	ttctttgatggtgccaatgtccggc	W59797
17476	tttgatggtgccaatgtccggcaag	W59797

SEQ ID NO:	sequence	DBAxnID
60013	acaccagagaactgtggatgtcttc	X58287
60014	tgtggatgtcttccatgctgtcaag	X58287
60015	tgtcttccatgctgtcaagacattg	X58287
60016	ccatgctgtcaagacattgaggaac	X58287
60017	accaaacatggtggacctcctggat	X58287
60018	tcagtacaagttctgctatgaggtg	X58287
60019	cctgaattcgggctgacagcatcag	X58287
60020	ctgacagcatcagcagccccgcaga	X58287
60021	ggagttctacagtgtccgtgacgat	X58287
60022	tgtccgtgacgatcagaactgtcag	X58287
60023	ggttcagcagttccagttcctgggc	X58287
60024	ctccttcttgaagctcatacgccag	X58287
60025	gctcatacgccaggtggacaagtgg	X58287
60026	tggtacattctgtgccatcagcatt	X58287
60027	tgccatcagcattgtctgtgagatg	X58287
60028	tgtctgtgagatgctccgacaccag	X58287
60029	tgagatgctccgacaccagagaact	X58287
60030	gctccgacaccagagaactgtggat	X58287
60031	agtgtctccaagaggctgaaaaaag	X71629
60032	gatgaagccactcaatttggtctta	X71629
60033	acctcctaccacagtacaagcaact	X71629
60034	taccacagtacaagcaactacaatg	X71629
60035	agcaactacaatgccagctgccagt	X71629
60036	tacaatgccagctgccagtatctcc	X71629
60037	gccagctgccagtatctccataact	X71629
60038	tgccagtatctccataactactcct	X71629
60039	cataactactcctactgctagagat	X71629
60040	tactcctactgctagagattccact	X71629
60041	tactgctagagattccactgatatt	X71629
60042	tctttacctaagcattattcaaaat	X71629
60043	caatttggtcttaggcctctgcatt	X71629
60044	ggtcttaggcctctgcattcttgta	X71629
60045	tcttgtaggatgcttcctgtcctgt	X71629
60046	tgagtgtcacagaggccctagaaga	X71629
60047	tcacagaggccctagaagacatgat	X71629
60048	acatcctagacctccaagcaatccg	X71629
60049	tagacctccaagcaatccgtctcct	X71629
60050	tactccaagcattcctcctaccgga	X71629
60051	atcagctacccacggacagaaacca	W82793
60052	cactatcccgagaactttgacctga	W82793
60053	atcacccatactgggcagactcggt	W82793
60054	acgcatggagactctacgagtatat	W82793
60055	tctacgagtatatcaccagacactt	W82793
60056	agtatatcaccagacacttcattgc	W82793
60057	atatcaccagacacttcattgccac	W82793
60058	gacacttcattgccacagtgagcca	W82793
60059	acttcattgccacagtgagccatga	W82793
60060	tcattgccacagtgagccatgactg	W82793
60061	ccacagtgagccatgactgcaagta	W82793
60062	cagtgagccatgactgcaagtatct	W82793
60063	tatcccgagaactttgacctgaagg	W82793
60064	atgactgcaagtatctccagagcac	W82793
60065	gagaactttgacctgaagggctctt	W82793
60066	tttgacctgaagggctctttgcgac	W82793
60067	aagggctctttgcgacacaggccaa	W82793
60068	ttgcgacacaggccaatcacccata	W82793
60069	cgacacaggccaatcacccatactg	W82793
60070	cacaggccaatcacccatactgggc	W82793
60071	ccaatcacccatactgggcagactc	W82793
60072	tttgtcctctgggttcttataggat	X71630
60073	ataggatgtttcctgtctggtgagt	X71630
60074	cattctttatccctttatgctcctc	X71630
60075	gtaatacaaccttcaagtattatag	X71630
60076	actctaagttcagatcctagccctc	X71630
60077	gatcctagccctcaaagaaattgtc	X71630
60078	ataccagggccaataactgcacaac	X71630
60079	gggccaataactgcacaactactgc	X71630
60080	gcacaactactgccaaagctcaaaa	X71630

SEQ ID NO	sequence	DBAxnID
102617	aatatgcactgcgtaccttggggag	AA165963
102618	atgcactgcgtaccttggggagtcg	AA165963
102619	ggggctacactccaatctacagccc	AA165963
102620	cgtctcagctaacctccataaggaa	AA165953
102621	ctcagctaacctccataaggaacag	AA165953
102622	aaagtcacgaccgatattggctacg	AA165953
102623	gtcacgaccgatattggctacgatg	AA165953
102624	acgaccgatattggctacgatgctg	AA165953
102625	attggctacgatgctggatttatcg	AA165953
102626	atcggtgtcatcagcattgataaaa	AA165953
102627	tatgctgtccatcatattacaccgt	AA165953
102628	gctgtccatcatattacaccgtagt	AA165953
102629	gtccatcatattacaccgtagtagg	AA165953
102630	catcatattacaccgtagtaggtca	AA165953
102631	catattacaccgtagtaggtcaagt	AA165953
102632	taacctccataaggaacagactgtc	AA165953
102633	cctccataaggaacagactgtcagt	AA165953
102634	acagactgtcagtatgctcagactg	AA165953
102635	cagtatgctcagactggacatcatg	AA165953
102636	tatgctcagactggacatcatgtat	AA165953
102637	gctcagactggacatcatgtataac	AA165953
102638	agatgcattcaaccagtgactaaga	AA165953
102639	attcaaccagtgactaagattcatg	AA165953
102640	gtgcagctccgtctggagagtatta	AA165955
102641	gcagctccgtctggagagtattaag	AA165955
102642	ccggactttgcccactgtctgctgc	AA165955
102643	ggactttgcccactgtctgctgcat	AA165955
102644	cactgtctgctgcatcctttggaaa	AA165955
102645	gtctgctgcatcctttggaaagctt	AA165955
102646	tgcatcctttggaaagcttggctac	AA165955
102647	agcttggctacggtataggagactg	AA165955
102648	cttggctacggtataggagactgtc	AA165955
102649	ataggagactgtcgttcgagacaag	AA165955
102650	ctgtcgttcgagacaaggctgtgga	AA165955
102651	cgttcgagacaaggctgtggagtcg	AA165955
102652	ttatcaactatagctctagcactcg	AA165955
102653	gctctagcactcggggtagaaagga	AA165955
102654	tctagcactcggggtagaaaggact	AA165955
102655	ggactcgaacggaactgctgccttt	AA165955
102656	gtgctgttagctctcggcgagcagc	AA165955
102657	gctgttagctctcggcgagcagctg	AA165955
102658	cggcgagcagctgggtaatgtcact	AA165955
102659	gtccggactttgcccactgtctgct	AA165955
102660	tgtgaaccccaaaactgacaagctt	AA166088
102661	tgaaccccaaaactgacaagctttg	AA166088
102662	tggtgctaacagtccagagatgtgg	AA166088
102663	gctaacagtccagagatgtggtctg	AA166088
102664	taacagtccagagatgtggtctgaa	AA166088
102665	gagtatgctgtccgagcaatcaagg	AA166088
102666	gtatgctgtccgagcaatcaaggaa	AA166088
102667	atgctgtccgagcaatcaaggaaca	AA166088
102668	gctgtccgagcaatcaaggaacaca	AA166088
102669	tcaagcaattatcttctgtagaact	AA166088
102670	aagcaattatcttctgtagaactaa	AA166088
102671	ttatcttctgtagaactaaaattga	AA166088
102672	accacattcgaactgatgatgtaca	AA166088
102673	cacattcgaactgatgatgtacacg	AA166088
102674	gataacacaagacctggtgctaaca	AA166088
102675	taacacaagacctggtgctaacagt	AA166088
102676	acacaagacctggtgctaacagtcc	AA166088
102677	acaagacctggtgctaacagtccag	AA166088
102678	aagacctggtgctaacagtccagag	AA166088
102679	cctggtgctaacagtccagagatgt	AA166088
102680	gcctccagaacacaggctgggaaga	AA166113
102681	ccagaacacaggctgggaagatgcc	AA166113
102682	aaattgtcgccctgaagaaggtgcg	AA166113
102683	tccccatcagcagcctgcgtgagat	AA166113
102684	agcagcctgcgtgagatcacactgc	AA166113

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
17477	ttgatggtgccaatgtccggcaagt	W59797	60081	ctactgccaaagctcaaaattccac	X71630	102685	tgctcttgcgtctccgccatccaaa	AA166113
17478	gtctgctgtccgctaagctaaagtc	W59797	60082	tgaattccttttggcagtcaagaca	X71630	102686	tctccgccatccaaacattgtggag	AA166113
17479	atggtgccaatgtccggcaagtgga	W59797	60083	ccttttggcagtcaagacagcataa	X71630	102687	tccgccatccaaacattgtggagct	AA166113
17480	ctgctgtccgctaagctaaagtcca	W59797	60084	tgtcacagagcacccagaggacaac	X71630	102688	ttgtgggcaaccacgtggagagcat	AA166113
17481	tgctgtccgctaagctaaagtccac	W59797	60085	ggacaacatggtcctagaagaacat	X71630	102689	gtgggcaaccacgtggagagcatct	AA166113
17482	ctgtccgctaagctaaagtccactg	W59797	60086	agaacattagctccttcaactcacc	X71630	102690	gcaaccacgtggagagcatcttcct	AA166113
17483	tgtccgctaagctaaagtccactga	W59797	60087	ttagctccttcaactcaccatcgtc	X71630	102691	agagcatcttcctggtcatgggtta	AA166113
17484	tccgctaagctaaagtccactgacg	W59797	60088	catcgtcattatcatctttatcctc	X71630	102692	agggcacctatggcatcgtgtatcg	AA166113
17485	ccgcattgcttcgtcacccaggtct	W59797	60089	cattatcatctttatcctctgccag	X71630	102693	ggcacctatggcatcgtgtatcggg	AA166113
17486	gcattgcttcgtcacccaggtctgc	W59797	60090	catctttatcctctgccagatccca	X71630	102694	gcatcgtgtatcgggccagggatac	AA166113
17487	ctggcccgaggcacttaccacaaca	L07918	60091	tatcctctgccagatcccaatcatg	X71630	102695	cgtgtatcgggccagggatacccag	AA166113
17488	cacaacaagtccttcttcacggatg	L07918	60092	ttattctaagattgctgggcaatta	AA061034	102696	tatcgggccagggatacccagacag	AA166113
17489	atgttttatcttaccccatctctca	L07918	60093	aaatttcctcaaaggagaagtgcag	AA061034	102697	cagggatacccagacagatgaaatt	AA166113
17490	agagtgttccctgcaaatgagactt	L07918	60094	gaacttcctgtttatcacctatgag	AA061034	102698	gggatacccagacagatgaaattgt	AA166113
17491	caccttgagtcctgaaggtcaagaa	L07918	60095	cctgtttatcacctatgaggagctg	AA061034	102699	tgaaattgtcgccctgaagaaggtg	AA166113
17492	aatgggcaagctccggctgacgcct	L07918	60096	gtttatcacctatgaggagctgcag	AA061034	102700	ccatgagcatgccagcattgactta	AA166139
17493	caagctccggctgacgcctccttgg	L07918	60097	tatcacctatgaggagctgcagcag	AA061034	102701	gcatgccagcattgacttaccaggc	AA166139
17494	gccttctgttcagaagtttattctt	L07918	60098	ctatgaggagctgcagcaggacctg	AA061034	102702	ctttgtggacgatcagcagactttc	AA166139
17495	tgccactgggttcttccggttcgat	L07918	60099	aggctccgtgcaacgcatctgtgag	AA061034	102703	cttttgtggcaacgtggctcatcag	AA166139
17496	ccgttgtcttctctgccaaggggag	L07918	60100	gcaacgcatctgtgagttcctgggc	AA061034	102704	caacgtggctcatcagcaacttatc	AA166139
17497	tcttctctgccaaggggagctctcc	L07918	60101	acgcatctgtgagttcctgggccgg	AA061034	102705	cgtggctcatcagcaacttatccag	AA166139
17498	actgagaacctcatttgctttcctt	L07918	60102	catctgtgagttcctgggccggcca	AA061034	102706	tcagcaacttatccagatcacctca	AA166139
17499	ttcttcacggatgacgacaaacagg	L07918	60103	ccggccactgggtgaagaggccctg	AA061034	102707	tatccagatcacctcagcatctgtg	AA166139
17500	caccagaagagttctcccgaccatg	L07918	60104	agtgcagtttggctcctggtttgac	AA061034	102708	agcatctgtgaggttggtgtctcaa	AA166139
17501	aagagttctcccgaccatgttgatc	L07918	60105	tgaagaggccctgagctctgtggtg	AA061034	102709	ggtgtctcaagagcccaaagctttg	AA166139
17502	ctgttcctagctaggccctttctct	L07918	60106	gtttggctcctggtttgaccacatc	AA061034	102710	tcaagagcccaaagctttggtcagc	AA166139
17503	ctagctaggccctttctctgtcaca	L07918	60107	tggctcctggtttgaccacatcaag	AA061034	102711	gcccaaagctttggtcagcgagttt	AA166139
17504	aggccctttctctgtcacacacaca	L07918	60108	ctcctggtttgaccacatcaagggc	AA061034	102712	cagcattgacttaccaggcatcaaa	AA166139
17505	acacacacacatttcatcaccaata	L07918	60109	gtttgaccacatcaagggctggatc	AA061034	102713	cattgacttaccaggcatcaaaggt	AA166139
17506	acacatttcatcaccaatatgtttt	L07918	60110	tgaccacatcaagggctggatccgg	AA061034	102714	tgacttaccaggcatcaaaggttta	AA166139
17507	tcttgctgcctgtgagggtatctca	W59687	60111	ccacatcaagggctggatccggatg	AA061034	102715	aggtttatggcctctgcgctctgac	AA166139
17508	agggtatctcagaaccctgaagccg	W59687	60112	agagaacttcctgtttatcacctat	AA061034	102716	ggatgacactttggtgctctctttt	AA166139
17509	ctgtgagaacgtcttcggggagctc	W59687	60113	catcatttaaacttcctgcagaggc	W82798	102717	gctctcttttgtgggccagacaaga	AA166139
17510	gtgagaacgtcttcggggagctctc	W59687	60114	tcatttaaacttcctgcagaggcac	W82798	102718	ttttgtgggccagacaagagttctc	AA166139
17511	ctctctgggaacgctcgtggctctt	W59687	60115	aaatggtcacagctgctggagcgca	W82798	102719	aagagttctcatgctaaacggagag	AA166139
17512	ctgggaacgctcgtggctcttgtga	W59687	60116	ggtcacagctgctggagcgcagttc	W82798	102720	gaccctgtctctgatggagcagctc	AA166154
17513	gaacgctcgtggctcttgtgaggaa	W59687	60117	tcacagctgctggagcgcagttcta	W82798	102721	taagtttcataagccaggtgagaac	AA166154
17514	tcgtggctcttgtgaggaaagggct	W59687	60118	acagctgctggagcgcagttctaat	W82798	102722	gcccaatggaatcctgcatattgga	AA166154
17515	acggctgggctgcagctatggaccg	W59687	60119	agctgctggagcgcagttctaatgg	W82798	102723	tggaatcctgcatattggacacgcc	AA166154
17516	cagctatggaccgagagctggccca	W59687	60120	atacctgaagtgcaagcagaatgga	W82798	102724	cctgcatattggacacgccagagcc	AA166154
17517	gcatccctgctgagcctgcccaagt	W59687	60121	gggcaaacgatgcgctcctgcggat	W82798	102725	gcatattggacacgccagagccatc	AA166154
17518	gctgagcctgcccaagtgtggctgc	W59687	60122	gcaaacgatgcgctcctgcggatgg	W82798	102726	acacgccagagccatcaatttcaac	AA166154
17519	ggtatctcagaaccctgaagccgag	W59687	60123	aaacgatgcgctcctgcggatggtg	W82798	102727	cgccagagccatcaatttcaacttt	AA166154
17520	tctcagaaccctgaagccgagagga	W59687	60124	acgatgcgctcctgcggatggtgtg	W82798	102728	cagagccatcaatttcaactttggt	AA166154
17521	agccaggccagatcccctggagaag	W59687	60125	atttaaacttcctgcagaggcacaa	W82798	102729	catcaatttcaactttggttatgca	AA166154
17522	ccaggccagatcccctggagaagtc	W59687	60126	acttcctgcagaggcacaaacgcca	W82798	102730	caatttcaactttggttatgcaagg	AA166154
17523	aggccagatcccctggagaagtcat	W59687	60127	ttcctgcagaggcacaaacgccaga	W82798	102731	tttcaactttggttatgcaaggcca	AA166154
17524	gccagatcccctggagaagtcatga	W59687	60128	cagaggcacaaacgccagacgtgaa	W82798	102732	gaactacaagacgccaggctatgtg	AA166154
17525	gatcccctggagaagtcatgatttt	W59687	60129	gaggcacaaacgccagacgtgaaaa	W82798	102733	tgtgatcactccatataccatggat	AA166154
17526	atgcagagtcgtctgtgagaacgtc	W59687	60130	ggcacaaacgccagacgtgaaaaat	W82798	102734	gatcactccatataccatggatctg	AA166154
17527	caaccttcttccttagctgctcgct	U00938	60131	cacaaacgccagacgtgaaaaatga	W82798	102735	cactccatataccatggatctgctg	AA166154
17528	tcttccagcaccatggccttcagtg	U00938	60132	tgaaatggtcacagctgctggagcg	W82798	102736	taccatggatctgctgaagcagcac	AA166154
17529	ttcaaggctaccgtgaagatggagg	U00938	60133	aggcttctgcctcaagggtgctgcc	X65635	102737	gaagcagcacctggagatcactggg	AA166154
17530	gtggcagagttccccaactatcacc	U00938	60134	ctgcctcaagggtgctgccaccctt	X65635	102738	ccctccagagcccaatggaatcctg	AA166154
17531	gcagagttccccaactatcaccaga	U00938	60135	tggcctgcatctgtgagaccacagg	X65635	102739	tccagagcccaatggaatcctgcat	AA166154
17532	gagttccccaactatcaccagactt	U00938	60136	gcatctgtgagaccacaggtactca	X65635	102740	atcaagccaactgagttctctcttt	AA166155
17533	aactatcaccagacttcggaggtcg	U00938	60137	gtgagaccacaggtactcatccctt	X65635	102741	actgagttctctctttgtgaaacag	AA166155
17534	tatcaccagacttcggaggtcgtgg	U00938	60138	ccacaggtactcatcccttcctgat	X65635	102742	tttgatcacccacagcaggactagg	AA166155
17535	cagacttcggaggtcgtgggtgaca	U00938	60139	atcccttcctgatctccatttgtct	X65635	102743	cacccacagcaggactaggcaggtc	AA166155
17536	gtggagatctccaccatcggggatg	U00938	60140	tcctgatctccatttgtctaagggt	X65635	102744	gacgaccgtgaacacgtgcaccttc	AA166155
17537	tccaccatcggggatgtgacctatg	U00938	60141	tctccatttgtctaagggtcgacag	X65635	102745	cgtgaacacgtgcaccttccacagg	AA166155
17538	accatcggggatgtgacctatgagc	U00938	60142	tttgtctaagggtcgacaggatgag	X65635	102746	gtgcaccttccacaggggacatag	AA166155
17539	accatggccttcagtggcaaatatg	U00938	60143	ctagccctgagcaagggtcagacca	X65635	102747	caccttccacaggggacatagcgg	AA166155
17540	ttcatgaagcgcctgggtcttccag	U00938	60144	aagggtcagaccacaggctcctgaa	X65635	102748	gtgcttggcaggcattccaaataac	AA166155
17541	cgtaacttcaagatcatcacagagg	U00938	60145	caagggtgctgccacccttactatc	X65635	102749	cattccaaataacttgatacggtca	AA166155
17542	aacttcaagatcatcacagaggtcc	U00938	60146	cagctgcatcttcaagaacttcaac	X65635	102750	tcctttcaacgatgaaactcccata	AA166155
17543	atcatcacagaggtccagcaggacg	U00938	60147	catcttcaagaacttcaacctcttc	X65635	102751	tttcaacgatgaaactcccatataa	AA166155
17544	ttcacctggtcccagtcttactctg	U00938	60148	ctatgctttccgcagccaggagctc	X65635	102752	atccatgagcttgcgcacaaagact	AA166155

TABLE 1

SEQ ID NO	sequence	DBAxnID
17545	tcttactctgggggcaacattatga	U00938
17546	atgagcaacaagttcaccattggca	U00938
17547	ttcgccaaatcgcagcccaatatgt	U03485
17548	gccaaatcgcagcccaatatgtacg	U03485
17549	tacacagatctctcggctcaccact	U03485
17550	tcggctcaccactcgtctcagggac	U03485
17551	cccaaactgacacatctgtagctgt	U03485
17552	aaactgacacatctgtagctgttgc	U03485
17553	acacatctgtagctgttgccgccgg	U03485
17554	gccaggcgcaattacctctctggtt	U03485
17555	aggcgcaattacctctctggttttg	U03485
17556	cgcaattacctctctggttttggtg	U03485
17557	tacctctctggttttggtggcagag	U03485
17558	ctctctggttttggtggcagaggtg	U03485
17559	aaatcgcagcccaatatgtacggcc	U03485
17560	aatatgtacggcctggccgcctaca	U03485
17561	tgcctgcctcagcagaagcggtacc	U03485
17562	ctgcctcagcagaagcggtacccgg	U03485
17563	ggcaacttcgtcgactccatggcgc	U03485
17564	ccggtcttcaatctgggccacctct	U03485
17565	tcgcacccgtcttcggccagcgtgg	U03485
17566	gactacagttgcgccgcgcaaatcc	U03485
17567	agcagtctgttactgcctctgcgaa	U19463
17568	ctgttactgcctctgcgaaagctgg	U19463
17569	aggtagcctcaaggctgaaatgtgc	U19463
17570	cctcctgcaagaacattctggcctg	U19463
17571	gcaagaacattctggcctgtcgcag	U19463
17572	aactctgtatggagtgccagcacct	U19463
17573	agtgccagcacctaagccaacgagt	U19463
17574	aagagccccctaaacagcgctgccg	U19463
17575	ctgcttgtgatcactttggcaatgc	U19463
17576	gtgatcactttggcaatgccaagtg	U19463
17577	actttggcaatgccaagtgtaatgg	U19463
17578	agtgctaccagttcaagcagatgta	U19463
17579	ctgcctctgcgaaagctggttcccc	U19463
17580	gtttcatcgaagctcagaaccagag	U19463
17581	tcgaagctcagaaccagagattcca	U19463
17582	ctcagaaccagagattccatgaagc	U19463
17583	gatcaagccagcatagagacatgcc	U19463
17584	atagagacatgcctcgaactacaca	U19463
17585	ctcgaactacacaggtagcctcaag	U19463
17586	ctacacaggtagcctcaaggctgaa	U19463
17587	ctcagcattgggacactgtcaagat	M22012
17588	cataccagcaaaacctgcagctgtg	M22012
17589	gaaagctctgttttccagacaatac	M22012
17590	tctgttttccagacaatactcttgt	M22012
17591	acaatactcttgtgtggaaaacgtg	M22012
17592	cttctaagtctggctcttgtgatca	M22012
17593	accaaaccctggtgcatcagtacaa	M22012
17594	ccctggtgcatcagtacaacacttt	M22012
17595	agtacaacactttgcgctaatctag	M22012
17596	acactttgcgctaatctagagctat	M22012
17597	tgcacaaccaaattgctgagatgtt	M22012
17598	gtctcctctgttggtttgtgaagtg	M22012
17599	agcaaaacctgcagctgtgtcacct	M22012
17600	acctgcagctgtgtcaccttcttct	M22012
17601	agctgtgtcaccttcttctgtcaac	M22012
17602	ttcttctgtcaacatacagactgat	M22012
17603	catacagactgatcataatgatccc	M22012
17604	tgatcccttctttacacacacacac	M22012
17605	cacacacacaaatggaatttaacca	M22012
17606	aacttcccagaattgatgaagcaaa	M22012
17607	tcgcctccacttgcaacacaattct	D11374
17608	caattctggagtcactgtcccggga	D11374
17609	gagttccaatctgaatctggacctg	D11374
17610	caatctgaatctggacctgcttgga	D11374
17611	gaatctggacctgcttggaactgcc	D11374
17612	cctcagagcaactgggtcatactag	D11374

SEQ ID NO:	sequence	DBAxnID
60149	cagccaggagctccgcatgacactc	X65635
60150	ggagctccgcatgacactcaaggag	X65635
60151	ccgcatgacactcaaggaggtgctg	X65635
60152	gacactcaaggaggtgctgctgtgc	X65635
60153	cccgaagcgcctgagagactgatga	W82720
60154	atgacagacaccattaatgaaccaa	W82720
60155	atgcagcgctgtcctgaggatcctc	W82720
60156	cgctgtcctgaggatcctcgactta	W82720
60157	cctgaggatcctcgacttactgaat	W82720
60158	gatcctcgacttactgaatctgtgg	W82720
60159	cctcgacttactgaatctgtggacg	W82720
60160	cgacttactgaatctgtggacgtgt	W82720
60161	gtgttgatgcccaacgttggtgaga	W82720
60162	ttgatgcccaacgttggtgagattg	W82720
60163	attgtaggtggctcgatgcgctcct	W82720
60164	ggcaccctcatggagggtactggct	W82720
60165	acagacaccattaatgaaccaatcc	W82720
60166	gacaccattaatgaaccaatcctgc	W82720
60167	aatgaaccaatcctgctgtgtcgct	W82720
60168	ctgctgtgtcgctttcctgtggaga	W82720
60169	ctgtgtcgctttcctgtggagatca	W82720
60170	atcaagtctttctatatgcagcgct	W82720
60171	ttctatatgcagcgctgtcctgagg	W82720
60172	tatatgcagcgctgtcctgaggatc	W82720
60173	tgtactaacaaatgctgtgatgcaa	
60174	ttccagtgtgccctgggggaatgct	
60175	ccagtgtgccctgggggaatgctgt	
60176	aaacctggggttgtgtgcagagcag	
60177	aacctggggttgtgtgcagagcagc	
60178	acctggggttgtgtgcagagcagca	
60179	tgtactaacaaatgctgtgatgcaa	
60180	ttccagtgtgccctgggggaatgct	
60181	ccagtgtgccctgggggaatgctgt	
60182	aaaacctggggttgtgtgcagagca	
60183	aaacctggggttgtgtgcagagcag	
60184	aacctggggttgtgtgcagagcagc	
60185	acctggggttgtgtgcagagcagca	
60186	accctcttcctgtgagcacagcaga	X71327
60187	aacgttaagtgccatggatgtgtca	X71327
60188	ctgtgatgctgccgtcatggggtca	X71327
60189	tgctgccgtcatggggtcagaaatt	X71327
60190	tgccgtcatggggtcagaaattgga	X71327
60191	tgccatctgaaagctcacctttcag	X71327
60192	ctgaaagctcacctttcagacgtat	X71327
60193	gctcacctttcagacgtattttctt	X71327
60194	tctttactcgtatcccaggaacatc	X71327
60195	ttactcgtatcccaggaacatccat	X71327
60196	gtatcccaggaacatccattttaag	X71327
60197	caggaacatccatttttaaggaactg	X71327
60198	aagtgccatggatgtgtcagagttc	X71327
60199	gtccagtccggttcacagtgaagca	X71327
60200	cagtccggttcacagtgaagcacta	X71327
60201	cagtgaagcactactgcaggggtag	X71327
60202	agcactactgcaggggtagaggaaa	X71327
60203	agacctggccggcagcttctccagg	X71327
60204	cctggccggcagcttctccagggga	X71327
60205	taccggctgtgatgctgccgtcatg	X71327
60206	cgttcgctgctggacaaggtctgac	X83536
60207	ctaccacaaggactttgcctctgaa	X83536
60208	caaggctctgcacttgaaggcaaga	X83536
60209	tgaccttataggcaacggccaaatg	X83536
60210	tataggcaacggccaaatggggtca	X83536
60211	actacatacacttaaatctctgaact	X83536
60212	ctgaactctgacctcaggaggctct	X83536
60213	ctcaggaggctctgggcatatgagc	X83536
60214	tatgagccctatatgtaccaagtgt	X83536
60215	atgtaccaagtgtacctggttggct	X83536
60216	caagtgtacctggttggctgcctcc	X83536

SEQ ID NO	sequence	DBAxnID
102753	catgagcttgcgcacaaagactaat	AA166155
102754	cttgcgcacaaagactaatgcaaga	AA166155
102755	gactaatgcaagaaccatcatggga	AA166155
102756	taatgcaagaaccatcatgggaaaa	AA166155
102757	aactactgcagcagcagaggctttg	AA166155
102758	tactgcagcagcagaggctttgatc	AA166155
102759	agaggctttgatcacccacagcagg	AA166155
102760	ccgcgatggggatgcgctggaccta	M99377
102761	caagacccgggcgagtcaggtgaag	M99377
102762	gacgcgccttcaagaagatcctctg	M99377
102763	cgcgccttcaagaagatcctctgcc	M99377
102764	cgccttcaagaagatcctctgccgt	M99377
102765	ccttcaagaagatcctctgccgtgg	M99377
102766	caagaagatcctctgccgtggggac	M99377
102767	agaagatcctctgccgtggggacag	M99377
102768	gatcctctgccgtggggacagaaaa	M99377
102769	tcctctgccgtggggacagaaaacg	M99377
102770	ctctgccgtggggacagaaaacgca	M99377
102771	aaacgcatcgtgtgagcgcatgggc	M99377
102772	tttcacctacacgctcatagcggtc	M99377
102773	tcacctacacgctcatagcggtcgg	M99377
102774	cggtgcccagccagctcttcaactt	M99377
102775	agccagctcttcaacttcttcttct	M99377
102776	agctcttcaacttcttcttctggtt	M99377
102777	agctcgctgaaccctgttatctaca	M99377
102778	acttccgacgcgccttcaagaagat	M99377
102779	ttccgacgcgccttcaagaagatcc	M99377
102780	caacactcaatcgctgctcagtaca	AA166184
102781	cactcaatcgctgctcagtacagcg	AA166184
102782	caaaccaggcgcacacctgaacgtc	AA166184
102783	cctgaacgtctccgaaaacagactg	AA166184
102784	gaacgtctccgaaaacagactgtcg	AA166184
102785	ggaaaagctccagcatttgagagtg	AA166184
102786	aaagctccagcatttgagagtgaag	AA166184
102787	gctccagcatttgagagtgaagacg	AA166184
102788	agtacgcaatagcgcatgcacacat	AA166184
102789	acgcaatagcgcatgcacacatgtc	AA166184
102790	cacacatgtctgcagtggtcagcct	AA166184
102791	acatgtctgcagtggtcagcctggc	AA166184
102792	tcaatcgctgctcagtacagcggga	AA166184
102793	actcaggtccgcgtgcactacgcac	AA166184
102794	tacgcaccacaccaatgccacgttg	AA166184
102795	gcaccacaccaatgccacgttggac	AA166184
102796	ccacaccaatgccacgttggacaaa	AA166184
102797	caccaatgccacgttggacaaacca	AA166184
102798	caatgccacgttggacaaaccaggc	AA166184
102799	ggacaaaccaggcgcacacctgaac	AA166184
102800	cttcgaggctcactcagcggcgcag	AA166191
102801	tcgaggctcactcagcggcgcagta	AA166191
102802	cagccctgagtttctgcgaaaatga	AA166191
102803	agccctgagtttctgcgaaaatgac	AA166191
102804	gccctgagtttctgcgaaaatgacc	AA166191
102805	tctgcgaaaatgacctgccggcaac	AA166191
102806	ctgcgaaaatgacctgccggcaacg	AA166191
102807	gcgaaaatgacctgccggcaacgtt	AA166191
102808	cgttgcctattaggtaagcgatgag	AA166191
102809	ggctcactcagcggcgcagtacagc	AA166191
102810	gctcactcagcggcgcagtacagcg	AA166191
102811	tccacgtgggccaagccaaccgcag	AA166191
102812	agccaaccgcagccctgagtttctg	AA166191
102813	gccaaccgcagccctgagtttctgc	AA166191
102814	ccgcagccctgagtttctgcgaaaa	AA166191
102815	cgcagccctgagtttctgcgaaaat	AA166191
102816	gcagccctgagtttctgcgaaaatg	AA166191
102817	aacgctgcagccatcattatatctc	AA166235
102818	acgctgcagccatcattatatctcc	AA166235
102819	ccctgataactgtgtccctaagcac	AA166235
102820	tgataactgtgtccctaagcacatg	AA166235

TABLE 1

SEQ ID NO	sequence	DBAxnID
17613	tgggtcatactagtgcccttcctca	D11374
17614	atactagtgcccttcctcaggactt	D11374
17615	ctgcgctgaggcgcgtcttagcact	D11374
17616	ccagcccatttggtggctaatgcct	D11374
17617	aatgcctgtccctgtttgtaaatat	D11374
17618	tgtccctgtttgtaaatatcctgta	D11374
17619	ctgagccagaacccgggagcctgtc	D11374
17620	cagaaaaggtctctcacctagagtc	D11374
17621	tagagtccatgctctggaagctcca	D11374
17622	acaacaaccagaggctgctggcaga	D11374
17623	ctaagcatctgggtgcacccactac	D11374
17624	atctgggtgcacccactactgacct	D11374
17625	gtgcacccactactgacctggcctg	D11374
17626	ccactactgacctggcctgagttcc	D11374
17627	agactttcatcatcatcatctgcta	W62913
17628	actttcatcatcatcatctgctaca	W62913
17629	gatatatgcttcttgggtattacca	W62913
17630	tatatgcttcttgggtattaccaga	W62913
17631	tatgcttcttgggtattaccagaaa	W62913
17632	tgcttcttgggtattaccagaaagt	W62913
17633	ggcatgacacgggtcgtcctcgaaa	W62913
17634	catgacacgggtcgtcctcgaaatt	W62913
17635	tgacacgggtcgtcctcgaaattga	W62913
17636	gggtcgtcctcgaaattgatcttgg	W62913
17637	gtcgtcctcgaaattgatcttggcg	W62913
17638	cgtcctcgaaattgatcttggcggg	W62913
17639	tttcatcatcatcatctgctacaga	W62913
17640	tcatcatcatcatctgctacagaaa	W62913
17641	atcatcatcatctgctacagaaatc	W62913
17642	catcatcatctgctacagaaatctg	W62913
17643	tcatcatctgctacagaaatctggg	W62913
17644	atcatctgctacagaaatctgggat	W62913
17645	catctgctacagaaatctgggatat	W62913
17646	tctgctacagaaatctgggatatat	W62913
17647	taatgttactgtaactctgtaacta	U09399
17648	tactgtaactctgtaactacaaata	U09399
17649	cctgtcatgttcactggtccatgta	U09399
17650	actggtccatgtatgcagtatctta	U09399
17651	atagttatgcaggctccttaagaaa	U09399
17652	ttttacgtgtgcttgtgtcgtcaa	U09399
17653	gtgcttgtgtcgtcaaaatgccaga	U09399
17654	tagcaagttctggcttctggcaaaa	U09399
17655	caagttctggcttctggcaaaatac	U09399
17656	gttctggcttctggcaaaatacaaa	U09399
17657	gcctttcattggttggtatggagag	U09399
17658	agttgcacacatttcaaaggaattc	U09399
17659	tgtaactctgtaactacaaatactt	U09399
17660	gttgcacacatttcaaaggaattcc	U09399
17661	actacaaatacttccagtaatccag	U09399
17662	acttccagtaatccagatgaaaaca	U09399
17663	ataatgtgcacgctgacccctgtca	U09399
17664	atgtgcacgctgacccctgtcatgt	U09399
17665	tgcacgctgacccctgtcatgttca	U09399
17666	ctgacccctgtcatgttcactggtc	U09399
17667	acccctgtcatgttcactggtccat	U09399
17668	actccaccagatccacgtcattcat	W62918
17669	ccagatccacgtcattcattgccac	W62918
17670	agcagagccagccctgcctacaacg	W62918
17671	tctccacggtgccctacatgctaaa	W62918
17672	ccacggtgccctacatgctaaatgt	W62918
17673	cggtgccctacatgctaaatgtcac	W62918
17674	cctacatgctaaatgtcactgcagt	W62918
17675	acatgctaaatgtcactgcagtgca	W62918
17676	tgctaaatgtcactgcagtgcaccc	W62918
17677	atgtcactgcagtgcacccaggcgg	W62918
17678	agcctttgtggctgagcgaatcatc	W62918
17679	tgagcgaatcatcaagccggaccct	W62918
17680	gatccacgtcattcattgccactta	W62918

SEQ ID NO:	sequence	DBAxnID
60217	ccgccactctgactaaaaggaatct	X83536
60218	ctttgcctctgaaggccagtggcta	X83536
60219	ctctgaaggccagtggctacaggtg	X83536
60220	gcttcatccataagtgggtcccttg	X83536
60221	cctctggccctcaagggaatctcac	X83536
60222	aagggaatctcacagctcggtgtgt	X83536
60223	cagctcggtgtgtgttcagccctag	X83536
60224	tgttcagccctagttgaatgttgtc	X83536
60225	tgttgtcaaggctctgcacttgaag	X83536
60226	tcggccatggctcccaaaggcggct	W83038
60227	gccatggctcccaaaggcggctcca	W83038
60228	aacgcgttcatcgtgtctgccatcc	W83038
60229	atccccatctggttgtattggagaa	W83038
60230	cccatctggttgtattggagaatat	W83038
60231	gatctcatccagtctgctgtgctct	W83038
60232	ctcatccagtctgctgtgctctaca	W83038
60233	atccagtctgctgtgctctacagtg	W83038
60234	gctgtgctctacagtgtgatgacct	W83038
60235	gtgctctacagtgtgatgaccttag	W83038
60236	ttagtagccttcgcgtacaagaatg	W83038
60237	gccttcgcgtacaagaatgtaaaat	W83038
60238	gctcccaaaggcggctccaagcagc	W83038
60239	tccaagcagcagtccgaggaggacc	W83038
60240	ctgctccttcaggatttcagccgca	W83038
60241	caggatttcagccgcaacctgtcgg	W83038
60242	gatttcagccgcaacctgtcggcca	W83038
60243	ttcagccgcaacctgtcggccaaat	W83038
60244	cgcaacctgtcggccaaatcgtcgg	W83038
60245	ttcttcgggaacgcgttcatcgtgt	W83038
60246	ggtgaactcagtgcattgggccaac	W83187
60247	ctcagtgcattgggccaacggttca	W83187
60248	ccctttgatgcaccttgtcgcacaa	W83187
60249	gatgcaccttgtcgcacaaagaata	W83187
60250	ccttgtcgcacaaagaatatcgccc	W83187
60251	ccctggtacaagtctactgtcatcc	W83187
60252	tctactgtcatccacatgactgttg	W83187
60253	gtcatccacatgactgttggtggct	W83187
60254	ggtggcttcctgcctttcagcgcca	W83187
60255	agcgccatctccgtggagctgtact	W83187
60256	atctccgtggagctgtactacatct	W83187
60257	ctgtactacatctttgccacagtct	W83187
60258	gcattgggccaacggttcaacacag	W83187
60259	tacatctttgccacagtctggggtc	W83187
60260	cggttcaacacaggcgctgcgacca	W83187
60261	acaaccatcctgctgctgctgacag	W83187
60262	ctgacagtctggctgctggtaggct	W83187
60263	gtaggctttcctctcactgtcattg	W83187
60264	tttcctctcactgtcattggcggca	W83187
60265	ctcactgtcattggcggcatctttg	W83187
60266	gctagtccctttgatgcaccttgtc	W83187
60267	aggacatgctgcagacgtttcttga	W82744
60268	acatgctgcagacgtttcttgaaaa	W82744
60269	tcacttttcaaggctttgcaggacc	W82744
60270	cttttcaaggctttgcaggacctgt	W82744
60271	gctttgcaggacctgtgactctgga	W82744
60272	ttgcaggacctgtgactctggatga	W82744
60273	ttgacaacattatgtcccttctgta	W82744
60274	acattatgtcccttctgtatgtgtc	W82744
60275	tgtcccttctgtatgtgtctctgga	W82744
60276	tggctgagaaccccaacttcatctg	W82744
60277	ggaagaaccacaagctccccaatga	W82744
60278	agctccccaatgacgttcctgggct	W82744
60279	tgctgcagacgtttcttgaaaatgg	W82744
60280	atgtcacgggtcccaagtttgctcg	W82744
60281	cgggtcccaagtttgctcgtgcatt	W82744
60282	ccaagtttgctcgtgcattcaggaa	W82744
60283	agtttgctcgtgcattcaggaatct	W82744
60284	cattcaggaatctcacttttcaagg	W82744

SEQ ID NO	sequence	DBAxnID
102821	ataactgtgtccctaagcacatgga	AA166235
102822	taactgtgtccctaagcacatggat	AA166235
102823	actgtgtccctaagcacatggatcg	AA166235
102824	ctgtgtccctaagcacatggatcgg	AA166235
102825	gtgtccctaagcacatggatcggat	AA166235
102826	tgtccctaagcacatggatcggatc	AA166235
102827	tccctaagcacatggatcggatcaa	AA166235
102828	ccctaagcacatggatcggatcaac	AA166235
102829	ctgcagccatcattatatctccgtc	AA166235
102830	gacgaacatgaaccctgataactgt	AA166235
102831	cgaacatgaaccctgataactgtgt	AA166235
102832	gaacatgaaccctgataactgtgtc	AA166235
102833	acatgaaccctgataactgtgtccc	AA166235
102834	catgaaccctgataactgtgtccct	AA166235
102835	tgaaccctgataactgtgtccctaa	AA166235
102836	accctgataactgtgtccctaagca	AA166235
102837	gctaatgacgcgatacgctctgctt	AA023287
102838	gacgcgatacgctctgcttgtctgt	AA023287
102839	gatctgatcacaactggggacttca	AA023287
102840	atcacaactggggacttcatgtcca	AA023287
102841	actggggacttcatgtccaggttct	AA023287
102842	gacttcatgtccaggttctgctcca	AA023287
102843	ttcatgtccaggttctgctccaacc	AA023287
102844	atgtccaggttctgctccaaccttt	AA023287
102845	cagatggcagctacacacatagccc	AA023287
102846	atggcagctacacacatagcccgca	AA023287
102847	gcagctacacacatagcccgcaagg	AA023287
102848	gctacacacatagcccgcaaggcag	AA023287
102849	tgtctgtacatcgcctgtagacaag	AA023287
102850	acacacatagcccgcaaggcagtgg	AA023287
102851	tacatcgcctgtagacaagaaggcg	AA023287
102852	atcgcctgtagacaagaaggcgttc	AA023287
102853	gaaatatgtgctgtgtctcgaatct	AA023287
102854	tgtgctgtgtctcgaatctctaaga	AA023287
102855	gctgtgtctcgaatctctaagaaag	AA023287
102856	gtgtctcgaatctctaagaaagaaa	AA023287
102857	gaaaccagcgtggatctgatcacaa	AA023287
102858	ctgcagcgcatgcttcaacacaccg	AA167919
102859	tgcagcgcatgcttcaacacaccgt	AA167919
102860	cttagccgaggtctccttcgagact	AA167919
102861	ccgaggtctccttcgagactatatg	AA167919
102862	cgaggtctccttcgagactatatgc	AA167919
102863	ggtctccttcgagactatatgcaga	AA167919
102864	gtctccttcgagactatatgcagac	AA167919
102865	ctccttcgagactatatgcagacag	AA167919
102866	tccttcgagactatatgcagacaga	AA167919
102867	ccttcgagactatatgcagacagag	AA167919
102868	gtgcactggcggcaggtcaatctaa	AA167919
102869	catcttacagcatataggtcctggt	AA167919
102870	catgcttcaacacaccgtgatcttc	AA167919
102871	tgcttcaacacaccgtgatcttcga	AA167919
102872	cttcaacacaccgtgatcttcgaca	AA167919
102873	tgatcttcgacatcactgtcgataa	AA167919
102874	ctgtcgataacgagcccttagccga	AA167919
102875	tgtcgataacgagcccttagccgag	AA167919
102876	gtcgataacgagcccttagccgagg	AA167919
102877	gataacgagcccttagccgaggtct	AA167919
102878	acacgctcgcagtgcttagctcttc	AA109243
102879	gcagtgcttagctcttctgtcggaa	AA109243
102880	cctgctctgggacacctaactcaag	AA109243
102881	tgctctgggacacctaactcaagag	AA109243
102882	ctgggacacctaactcaagagacct	AA109243
102883	gacacctaactcaagagacctccct	AA109243
102884	cggcccaattatggcagagaacgat	AA109243
102885	caatgagctcttggactacgaagac	AA109243
102886	atgagctcttggactacgaagacga	AA109243
102887	gagctcttggactacgaagacgacg	AA109243
102888	gctcttggactacgaagacgacgag	AA109243

TABLE 1

SEQ ID NO	sequence	DBAxnID
17681	ccacgtcattcattgccacttacag	W62918
17682	cattcattgccacttacaggctcgg	W62918
17683	tcattgccacttacaggctcggtgt	W62918
17684	ttgccacttacaggctcggtgtggc	W62918
17685	cttacaggctcggtgtggccaccca	W62918
17686	gtgtggccacccagcagcagagcca	W62918
17687	agcagcagagccagccctgcctaca	W62918
17688	cagtatgtgcctaacggttggcaag	U00689
17689	tatgtgcctaacggttggcaagtac	U00689
17690	atgttgcctagtcagcctgctgggt	U00689
17691	cctagtcagcctgctgggtatcgag	U00689
17692	agtcagcctgctgggtatcgagtgg	U00689
17693	cagcctgctgggtatcgagtggccg	U00689
17694	agtttctcagatccttgtttcaaag	U00689
17695	tgaacttttctccactaaaatcgtg	U00689
17696	ctccactaaaatcgtgtgcagtttt	U00689
17697	ttttagtttgcattcctgataggat	U00689
17698	tagtttgcattcctgataggattta	U00689
17699	tttgcattcctgataggatttaaaa	U00689
17700	ttcaatcagacccagtcttctgcac	U00689
17701	aatcagacccagtcttctgcaccgt	U00689
17702	cagacccagtcttctgcaccgtgga	U00689
17703	cagtcttctgcaccgtggatgggac	U00689
17704	tcttctgcaccgtggatgggaccca	U00689
17705	tctgcaccgtggatgggacccaatt	U00689
17706	atgggacccaattacagtgtgccac	U00689
17707	agcatgttgcctagtcagcctgctg	U00689
17708	cctatgagtgccacctgtgccacaa	L35307
17709	atgagtgccacctgtgccacaaggc	L35307
17710	ccacaccacaggccgaaggtgccat	L35307
17711	caccacaggccgaaggtgccatgga	L35307
17712	ggaacagcctgggacaccacgccaa	L35307
17713	accacgccaagcaacggggagcaca	L35307
17714	ccagagccttcattccaattacaag	L35307
17715	gagccttcattccaattacaagctg	L35307
17716	tcattccaattacaagctgaggttt	L35307
17717	ttccaattacaagctgaggttttgg	L35307
17718	ctctctagattggggtgatcaccca	L35307
17719	tgatcacccaaggagttaaacatga	L35307
17720	ccttcgccaaggaggaccacctgca	L35307
17721	ccaaggaggaccacctgcagcgcca	L35307
17722	tgcagcgccatctcaagggtcagaa	L35307
17723	agcgccatctcaagggtcagaactg	L35307
17724	actgcctggaggtgcgcacccgaag	L35307
17725	gcacccgaaggcgccgcaaggatga	L35307
17726	tcgacctttccaatggccacctgga	L35307
17727	acctctctctggctcgattctggga	L35307
17728	gtgcattctgtactgggcactactg	L32812
17729	ctgggcactactgctcagccatcag	L32812
17730	atctcacataaacttctcaaaactc	L32812
17731	cataaacttctcaaaactctcaaag	L32812
17732	cttctcaaaactctcaaagctgtgc	L32812
17733	ctcaaagctgtgcatcagaaggagt	L32812
17734	taaatctcacaggatgcaaatttaa	L32812
17735	cattacatcacataagaaaatgtta	L32812
17736	aaactactcacaatatgatgcaagt	L32812
17737	tactatcacattccttatgtgtgtt	L32812
17738	cacattccttatgtgtgtttatagc	L32812
17739	tgcagttctctctgaatagggactt	L32812
17740	actactgctcagccatcagcaggaa	L32812
17741	gctcagccatcagcaggaactagta	L32812
17742	caattccagtgcattgtgctatggg	L32812
17743	cagtgcattgtgctatgggaaagaa	L32812
17744	gaaagaagcctgaccaaatggctac	L32812
17745	agcctgaccaaatggctacacactg	L32812
17746	accaaatggctacacactgcagata	L32812
17747	ggtggcatctcacataaacttctca	L32812
17748	ggtgttgaccgcagacacagcatgc	W61591
60285	tcaggaatctcacttttcaaggctt	W82744
60286	atctcacttttcaaggctttgcagg	W82744
60287	cgacttctgagactggaggtcaatg	W83074
60288	cttctgagactggaggtcaatgctg	W83074
60289	tatgtgctgcagtttctcaaagagg	W83074
60290	ctgcagtttctcaaagaggatctgc	W83074
60291	gaggatctgcccaaggtggttgtac	W83074
60292	gatctgcccaaggtggttgtacaag	W83074
60293	caaggcatcccagaggtgtcgcgag	W83074
60294	ggcatcccagaggtgtcgcgagctg	W83074
60295	ccagaggtgtcgcgagctgtcatcc	W83074
60296	cgagctgtcatccatattgacgagc	W83074
60297	gctgtcatccatattgacgagcaga	W83074
60298	catattgacgagcagagtgggaagg	W83074
60299	aatgctgagacagtgcggtactcca	W83074
60300	gtgcggtactccatctgcacatcca	W83074
60301	cggtactccatctgcacatccaagc	W83074
60302	atctgcacatccaagctccgagtga	W83074
60303	tgcacatccaagctccgagtgaagc	W83074
60304	aagctccgagtgaagcctggtgatg	W83074
60305	ctccgagtgaagcctggtgatgtgg	W83074
60306	aagagctccatgtattatgtgctgc	W83074
60307	aatatactcataacggtcgcattgg	X64541
60308	atatactcataacggtcgcattggc	X64541
60309	taacggtcgcattggcttcgatccc	X64541
60310	cggtcgcattggcttcgatcccttt	X64541
60311	ggtcgcattggcttcgatcccttttt	X64541
60312	tcgcattggcttcgatcccttttaa	X64541
60313	agacaatcaggtctacttgcggttc	X64541
60314	gacaatcaggtctacttgcggttcc	X64541
60315	caatcaggtctacttgcggttccca	X64541
60316	atcaggtctacttgcggttcccaag	X64541
60317	tcaggtctacttgcggttcccaagg	X64541
60318	tatactcataacggtcgcattggct	X64541
60319	atactcataacggtcgcattggctt	X64541
60320	tactcataacggtcgcattggcttc	X64541
60321	actcataacggtcgcattggcttcg	X64541
60322	ctcataacggtcgcattggcttcga	X64541
60323	tcataacggtcgcattggcttcgat	X64541
60324	cataacggtcgcattggcttcgatc	X64541
60325	ataacggtcgcattggcttcgatcc	X64541
60326	cccaggacctgtctttgtatgtgga	W82881
60327	ccaggacctgtctttgtatgtggaa	W82881
60328	tggaccaaaacgtgccatactaatg	W82881
60329	gaccaaaacgtgccatactaatgat	W82881
60330	accaaaacgtgccatactaatgatg	W82881
60331	aacgtgccatactaatgatgagcgg	W82881
60332	gtgaactctagcacactgttgtaga	W82881
60333	gaactctagcacactgttgtagatg	W82881
60334	aactctagcacactgttgtagatga	W82881
60335	ctctagcacactgttgtagatgagt	W82881
60336	tctagcacactgttgtagatgagtc	W82881
60337	tagcacactgttgtagatgagtcag	W82881
60338	aggacctgtctttgtatgtggaagt	W82881
60339	acctgtctttgtatgtggaagtata	W82881
60340	cctgtctttgtatgtggaagtatac	W82881
60341	ttaaaacacatcatggaccaaaacg	W82881
60342	cacatcatggaccaaaacgtgccat	W82881
60343	acatcatggaccaaaacgtgccata	W82881
60344	tcatggaccaaaacgtgccatacta	W82881
60345	atggaccaaaacgtgccatactaat	W82881
60346	cagttccctgagtagaaggagagat	X72904
60347	agataactcaaagcttcagagaaga	X72904
60348	tgtttgactattttgcctggtacaa	X72904
60349	cactcctgatatccgtacgctcaaa	X72904
60350	tcctgatatccgtacgctcaaatgt	X72904
60351	ccgtacgctcaaatgtggataagag	X72904
60352	gattcacagttttcttgaacaaaag	X72904
102889	acgtcaagggctcctacgtctccat	AA109243
102890	agtgcttagctcttctgtcggaaac	AA109243
102891	tgcttagctcttctgtcggaaactg	AA109243
102892	tagctcttctgtcggaaactggtgt	AA109243
102893	gctcttctgtcggaaactggtgtct	AA109243
102894	tcttctgtcggaaactggtgtcttt	AA109243
102895	tgtctttcccccttgctgttcttcaa	AA109243
102896	ctcacctgctctgggacacctaact	AA109243
102897	cacctgctctgggacacctaactca	AA109243
102898	tacgtcgacctagtcgcgggcatcg	AA167966
102899	atcgagccaatcttacattgattga	AA167966
102900	gaataccttatcagcacccagtgac	AA167966
102901	cttatcagcacccagtgacgagcct	AA167966
102902	agcacccagtgacgagcctactgcg	AA167966
102903	tgacgagcctactgcgctcatgagc	AA167966
102904	tactgcgctcatgagctagcccaaa	AA167966
102905	gctcatgagctagcccaaatacatc	AA167966
102906	gagctagcccaaatacatcatctgg	AA167966
102907	ctagcccaaatacatcatctggtct	AA167966
102908	gcccaaatacatcatctggtctccg	AA167966
102909	atacatcatctggtctccgatctgc	AA167966
102910	gagccaatcttacattgattgagaa	AA167966
102911	acatcatctggtctccgatctgccg	AA167966
102912	ccaatcttacattgattgagaagta	AA167966
102913	acgatcgtgcataggtgagaacgct	AA167966
102914	gaacgctcatacgctctttagcttc	AA167966
102915	cgctcatacgctctttagcttcctg	AA167966
102916	tcatacgctctttagcttcctgcgg	AA167966
102917	gctctttagcttcctgcggaatacc	AA167966
102918	tagcttcctgcggaatacctatca	AA167966
102919	acatctgtagatctctgccggggtc	AA167947
102920	tctgtagatctctgccggggtcctc	AA167947
102921	ctccagcgatctatggcatttcatt	AA167947
102922	tctatggcatttcattccctgaccc	AA167947
102923	atggcatttcattccctgaccccaa	AA167947
102924	gcatttcattccctgaccccaagct	AA167947
102925	ctgaccccaagctactgaaagagtg	AA167947
102926	aactatatttcttccatgaacttag	AA167947
102927	tatatttcttccatgaacttagccc	AA167947
102928	atttcttccatgaacttagccctgg	AA167947
102929	tcttccatgaacttagccctggaag	AA167947
102930	ttttcctgcccaaaggagcctacat	AA167947
102931	ggtcctcatgtccgacacaccggca	AA167947
102932	tcctgcccaaaggagcctacattta	AA167947
102933	cctcatgtccgacacaccggcaaga	AA167947
102934	gtccgacacaccggcaagattaaga	AA167947
102935	cgacacaccggcaagattaagactt	AA167947
102936	atacacaagaattcttccacgtact	AA167947
102937	cacaagaattcttccacgtactggg	AA167947
102938	tccacgtactgggaaggcaaagcag	AA167947
102939	gagacgctccagcgatctatggcat	AA167947
102940	tttatagtcgggatcgagtgtgtgg	AA168031
102941	tatagtcgggatcgagtgtgtggac	AA168031
102942	tcatcgaggaccagtacatgctgca	AA168031
102943	aggaccagtacatgctgcagtgttc	AA168031
102944	gaccagtacatgctgcagtgttcct	AA168031
102945	ccagtacatgctgcagtgttcctat	AA168031
102946	atatcctatggtacattctcaagtt	AA168031
102947	atcctatggtacattctcaagttgg	AA168031
102948	tatggtacattctcaagttggtggt	AA168031
102949	gtacattctcaagttggtggtcaca	AA168031
102950	acattctcaagttggtggtcacatg	AA168031
102951	attctcaagttggtggtcacatgaa	AA168031
102952	agaccgctttatgcataacctgtgg	AA168031
102953	accgctttatgcataacctgtggat	AA168031
102954	cgctttatgcataacctgtggatca	AA168031
102955	ctttatgcataacctgtggatcatc	AA168031
102956	gcataacctgtggatcatcgaggac	AA168031

TABLE 1

SEQ ID NO	sequence	DBAxnID
17749	ttgaccgcagacacagcatgcgtga	W61591
17750	gcctggcgctctacgcactgatgat	W61591
17751	ctggcgctctacgcactgatgatta	W61591
17752	ctctacgcactgatgattacctgga	W61591
17753	ctacgcactgatgattacctggata	W61591
17754	acgcactgatgattacctggatagc	W61591
17755	atgattacctggatagcatgtcttg	W61591
17756	agagccatatttgtacccatctatg	W61591
17757	agccatatttgtacccatctatggc	W61591
17758	ccatatttgtacccatctatggcct	W61591
17759	atatttgtacccatctatggcctgg	W61591
17760	gaccgcagacacagcatgcgtgatg	W61591
17761	atttgtacccatctatggcctgggt	W61591
17762	ccgcagacacagcatgcgtgatgtt	W61591
17763	gcagacacagcatgcgtgatgttac	W61591
17764	acacagcatgcgtgatgttacggaa	W61591
17765	agcatgcgtgatgttacggaagttt	W61591
17766	atgtcattgatttcactggcatgcc	W61591
17767	gtcattgatttcactggcatgcctg	W61591
17768	actggcatgcctggcgctctacgca	W61591
17769	ctaaccacctgcaagaattgaataa	U17162
17770	aagagctttctggcatccagcaggg	U17162
17771	tgcagtctacaaacttggccctggc	U17162
17772	ctacaaacttggccctggctgaatg	U17162
17773	agagtggctgtactggcctgaagag	U17162
17774	gctgtactggcctgaagagcagctt	U17162
17775	cctctctggaacagaagtcgcctgt	U17162
17776	agaagtcgcctgtttctccatggct	U17162
17777	cgcctgtttctccatggctgccagg	U17162
17778	tttctccatggctgccaggggcaac	U17162
17779	catggctgccaggggcaactagcca	U17162
17780	aaatgtcaatttccctgctcctccg	U17162
17781	tttctggcatccagcagggttttct	U17162
17782	gcatccagcagggttttctggctaa	U17162
17783	cggaggctctctgcaaacttgatag	U17162
17784	ctctctgcaaacttgataggaaagt	U17162
17785	ttgacacaatggtcctaccagaaca	U17162
17786	tcctaccagaacaatttaaagacag	U17162
17787	acatctgccaagagacagagcggct	U17162
17788	agacagagcggctgcagtctacaaa	U17162
17789	gtccaggctccgagccatctagcga	W61596
17790	ccaggctccgagccatctagcgact	W61596
17791	caggcccaccatggggaagaacaat	W61596
17792	acaatagcaagctggcccctgagga	W61596
17793	tagcaagctggcccctgaggagctg	W61596
17794	tggcccctgaggagctggaagatct	W61596
17795	aagatctggtccagaacacggagtt	W61596
17796	tctggtccagaacacggagttcagc	W61596
17797	ccagaacacggagttcagcgagcag	W61596
17798	agaacacggagttcagcgagcagga	W61596
17799	cacggagttcagcgagcaggagcta	W61596
17800	gttcagcgagcaggagctaaagcag	W61596
17801	agccatctagcgactcggcgagcgg	W61596
17802	ccatctagcgactcggcgagcggcc	W61596
17803	agcggcctcaggtggacaatcatct	W61596
17804	ccagggactttcacttcaagccgag	W61596
17805	tcacttcaagccgagtccccagttc	W61596
17806	caagccgagtccccagttcaagaag	W61596
17807	ccagctcaggcccaccatggggaag	W61596
17808	agctcaggcccaccatggggaagaa	W61596
17809	aactacagcccaggtgctgatccgg	U29152
17810	ggtctttgactttgaggtgagcagc	U29152
17811	ctgcctcatctgcccttgcaagtgt	U29152
17812	caagtgtcctgtgtctctgcactag	U29152
17813	tcctgtgtctctgcactaggtggca	U29152
17814	gtctctgcactaggtggcaccttgc	U29152
17815	acatagagtctggagggcagtacca	U29152
17816	tccagccttccttggtctttcttct	U29152

SEQ ID NO:	sequence	DBAxnID
60353	gcggcaaacacttctcactgcacat	X72904
60354	gcaaacacttctcactgcacatcac	X72904
60355	aacacttctcactgcacatcacagc	X72904
60356	agcctgaagacacagcagtgtacct	X72904
60357	tctgcgcagcaggtgaggctatgga	X72904
60358	aagacatgactggcttcctgaaggc	X72904
60359	tcctgaaggccttgctgttggttct	X72904
60360	tgaaggccttgctgttggttctgtg	X72904
60361	ccttgctgttggttctgtgcctgcg	X72904
60362	tgttggttctgtgcctgcggccaga	X72904
60363	ttctgtgcctgcggccagaatggat	X72904
60364	agactggtggccagcaagttaaaca	X72904
60365	aagttaaacaaagctctccatcgct	X72904
60366	gatatgacttccttttacaacacgc	W83326
60367	tgcaagctacttgacgaaggttgtg	W83326
60368	ctggtcctgtagggagcataggtga	W83326
60369	atggttttccagctgtgccttttgt	W83326
60370	ttccagctgtgccttttgtgttgac	W83326
60371	ctgtgccttttgtgttgacattaac	W83326
60372	tgttgacattaaccagacagccatt	W83326
60373	cattaaccagacagccattagtgag	W83326
60374	ccagacagccattagtgagtgaaca	W83326
60375	gtattctgtttgtcatgattggacc	W83326
60376	tgattggacctttgcatgcaggtgg	W83326
60377	ttggacctttgcatgcaggtggcat	W83326
60378	aagctacttgacgaaggttgtgatg	W83326
60379	ctttgcatgcaggtggcattcgaat	W83326
60380	tgtgatgaactcactgctcgaggga	W83326
60381	gatgaactcactgctcgagggagaa	W83326
60382	agaagtcaagcccagcaatgaggac	W83326
60383	caagcccagcaatgaggactcctgc	W83326
60384	caatgaggactcctgcctggttagc	W83326
60385	tgaggactcctgcctggttagctag	W83326
60386	ctgcctggttagctagtgcggctgg	W83326
60387	gaactctacccaggaaagcagatct	X13945
60388	ctctacccaggaaagcagatctgtt	X13945
60389	cttcctggcctcaagtcctagagga	X13945
60390	gacttctaggcaccaagggactcct	X13945
60391	gactcctggaactatcttgggagga	X13945
60392	caggctaaagtctcatctgaatggc	X13945
60393	aaagtctcatctgaatggcttgtgt	X13945
60394	gtctcatctgaatggcttgtgtttt	X13945
60395	ttttataagctgctgcggggttgta	X13945
60396	tataagctgctgcggggttgtatgc	X13945
60397	aaactgttgccttctgggacatctt	X13945
60398	ttgccttctgggacatcttctaata	X13945
60399	tcctgctggccctgggcttggaagt	X13945
60400	gtaacaacatgtggctctcaaaaac	X13945
60401	ccagctaccacttccaaattggctc	X13945
60402	tccaaattggctcccaactgtgatg	X13945
60403	aaattggctcccaactgtgatggcc	X13945
60404	ttggctcccaactgtgatggcctcc	X13945
60405	ggcctccaattacttcctggcctca	X13945
60406	caattacttcctggcctcaagtcct	X13945
60407	tccaagtctgccgtagcccgggtgt	W83830
60408	tctgccgtagcccgggtgtgttgat	W83830
60409	ggtctccagtgtgggtctcctgctc	W83830
60410	ctccagtgtgggtctcctgctccca	W83830
60411	cagctgcccagtgaaatgtttgtgc	W83830
60412	gaaatgtttgtgccacccatcatca	W83830
60413	atgtttgtgccacccatcatcaaac	W83830
60414	tttgtgccacccatcatcaaactcc	W83830
60415	cccatcatcaaactccgtggactgc	W83830
60416	atcatcaaactccgtggactgcagt	W83830
60417	atcaaactccgtggactgcagtggt	W83830
60418	ctgcagtggtcaggggctgtcaaag	W83830
60419	gccgtagcccgggtgtgttgatctg	W83830
60420	tgatttacccccatggacagttaca	W83830

SEQ ID NO	sequence	DBAxnID
102957	ataacctgtggatcatcgaggacca	AA168031
102958	aacctgtggatcatcgaggaccagt	AA168031
102959	gatcatcgaggaccagtacatgctg	AA168031
102960	gttgggctcctcaatgggcaaatta	W09095
102961	ttgggctcctcaatgggcaaattaa	W09095
102962	ttcgaacgacttggcaagtatcatc	W09095
102963	caagtatcatctagatctcagaatt	W09095
102964	agtatcatctagatctcagaatttg	W09095
102965	gtatcatctagatctcagaatttga	W09095
102966	tatcatctagatctcagaatttgag	W09095
102967	atcatctagatctcagaatttgaga	W09095
102968	tcatctagatctcagaatttgagaa	W09095
102969	catctagatctcagaatttgagaag	W09095
102970	tgggctcctcaatgggcaaattaag	W09095
102971	gggctcctcaatgggcaaattaaga	W09095
102972	gctcctcaatgggcaaattaagact	W09095
102973	ctcctcaatgggcaaattaagactt	W09095
102974	ttggcggttcgaacgacttggcaag	W09095
102975	tggcggttcgaacgacttggcaagt	W09095
102976	ggttcgaacgacttggcaagtatca	W09095
102977	gttcgaacgacttggcaagtatcat	W09095
102978	ctgcaaaaatcgaccagctgcagaa	M64250
102979	aaatcgaccagctgcagaagaatct	M64250
102980	gcccatcacagcagcagacacctgt	M64250
102981	ctctgtccccaggcacttcttggac	M64250
102982	caggcacttcttggacacatgtacc	M64250
102983	gcacttcttggacacatgtaccaac	M64250
102984	cttggacacatgtaccaacttgagt	M64250
102985	ggacacatgtaccaacttgagtcct	M64250
102986	tgaagcctcatctcgctactcaata	M64250
102987	agcctcatctcgctactcaataaag	M64250
102988	ctcatctcgctactcaataaagcaa	M64250
102989	tcgctactcaataaagcaactgaga	M64250
102990	agaatctggccccgctggtggaaga	M64250
102991	cgctactcaataaagcaactgagaa	M64250
102992	tgttcaacaaggctctggtgcagca	M64250
102993	tcaacaaggctctggtgcagcagct	M64250
102994	acaaggctctggtgcagcagctgga	M64250
102995	ctctggtgcagcagctggaacagtt	M64250
102996	tggtgcagcagctggaacagttcag	M64250
102997	aacagttcagacagcagctgggtcc	M64250
102998	tcagacagcagctgggtcccaattc	M64250
102999	gaccaaatttacctctgatcccatt	AA168184
103000	atttacctctgatcccattggtgaa	AA168184
103001	ttctccagaagtgaacagggaatct	AA168184
103002	cagggaatcttctcaactatggggc	AA168184
103003	ggaatcttctcaactatggggctgt	AA168184
103004	atcttctcaactatggggctgtggg	AA168184
103005	tgggacctctgggaagtctggtgac	AA168184
103006	tccccagatggcagaagacgggtac	AA168184
103007	gtacatcggtgccactttaatggct	AA168184
103008	catcggtgccactttaatggctgca	AA168184
103009	tgccactttaatggctgcaggaaag	AA168184
103010	cactttaatggctgcaggaaagttt	AA168184
103011	tacctctgatcccattggtgaagtc	AA168184
103012	agctcccacttgaaagcacatcagc	AA168184
103013	ctctgatcccattggtgaagtctta	AA168184
103014	tgatcccattggtgaagtcttagtc	AA168184
103015	aggaaatctgagttcctccgtcatt	AA168184
103016	tctgagttcctccgtcatttccaca	AA168184
103017	gagttcctccgtcatttccacacct	AA168184
103018	acctccatcttctccagaagtgaac	AA168184
103019	atcttctccagaagtgaacagggaa	AA168184
103020	gactggagacagccctctgttcctg	AA168226
103021	tggagacagccctctgttcctgtgc	AA168226
103022	tttctgtgtgccaaggcgaaacgcg	AA168226
103023	tgtgccaaggcgaaacgcgatgggt	AA168226
103024	tgacagaagcctgtgcctcatccca	AA168226

TABLE 1

SEQ ID NO	sequence	DBAxnID
17817	gctttagagtccaagccgtgccact	U29152
17818	gagtccaagccgtgccactaacact	U29152
17819	aagccgtgccactaacacttaaatg	U29152
17820	ttgggtcagacttctccttgcctca	U29152
17821	catggccactctactcagctacaac	U29152
17822	cactctactcagctacaacaggaac	U29152
17823	cttccacgccgaagtctgaagctgt	U29152
17824	agtctgaagctgtggcgagcagatc	U29152
17825	tcctcctcaagtggcttgcacctgt	U29152
17826	tcaagtggcttgcacctgttctttc	U29152
17827	cacctgttctttctgcctcatctgc	U29152
17828	ttctttctgcctcatctgcccttgc	U29152
17829	tcagtctcagtcacatctgtacaca	W61638
17830	gtctcagtcacatctgtacacagac	W61638
17831	tcgttttgtgcaacgtgcagcatgt	W61638
17832	ttttgtgcaacgtgcagcatgtcag	W61638
17833	tgtgcaacgtgcagcatgtcagcaa	W61638
17834	gcaacgtgcagcatgtcagcaaccg	W61638
17835	acgtgcagcatgtcagcaaccgtgg	W61638
17836	tgcagcatgtcagcaaccgtggctt	W61638
17837	agcatgtcagcaaccgtggcttgtg	W61638
17838	tcagcaaccgtggcttgtgcacaga	W61638
17839	gcaaccgtggcttgtgcacagacca	W61638
17840	gcttgtgcacagaccatatagagtc	W61638
17841	tcagtcacatctgtacacagacgct	W61638
17842	cttgtgcacagaccatatagagtcc	W61638
17843	gtcacatctgtacacagacgcttcc	W61638
17844	acatctgtacacagacgcttccatt	W61638
17845	tctgtacacagacgcttccattcgt	W61638
17846	gtacacagacgcttccattcgtttt	W61638
17847	agacgcttccattcgttttgtgcaa	W61638
17848	cgcttccattcgttttgtgcaacgt	W61638
17849	cattcgttttgtgcaacgtgcagca	W61638
17850	atttcttcataagtctcagaagagc	L35261
17851	ttcttcataagtctcagaagagctg	L35261
17852	ccattacagctaacatagtaaacaa	L35261
17853	taaactgtatgtcacatctacctaa	L35261
17854	aactgtatgtcacatctacctaaat	L35261
17855	gtatgtcacatctacctaaatattg	L35261
17856	atgtcacatctacctaaatattgca	L35261
17857	gtcacatctacctaaatattgcact	L35261
17858	cacatctacctaaatattgcactat	L35261
17859	tctacctaaatattgcactatatgc	L35261
17860	cctaaatattgcactatatgcttaa	L35261
17861	tattgcactatatgcttaaaatcat	L35261
17862	tgtctagaagccagtgttgtttctt	L35261
17863	gaagccagtgttgtttcttgccatt	L35261
17864	ccagtgttgtttcttgccattacag	L35261
17865	tgttgtttcttgccattacagctaa	L35261
17866	ttgtttcttgccattacagctaaca	L35261
17867	gtttcttgccattacagctaacata	L35261
17868	ttcttgccattacagctaacatagt	L35261
17869	tgccattacagctaacatagtaaac	L35261
17870	gctacgaacgctaccccaagaattg	W61643
17871	aacgctaccccaagaattgcctgct	W61643
17872	agccttctgagggatgtgactgagt	W61643
17873	gtccaggacggaccccgatctctat	W61643
17874	cggaccccgatctctatacctatca	W61643
17875	gaccccgatctctatacctatcaca	W61643
17876	ccccgatctctatacctatcacatg	W61643
17877	ccgatctctatacctatcacatgct	W61643
17878	tacctatcacatgctcaagagcatc	W61643
17879	agaataacacggtgtgcgcgagaat	W61643
17880	taacacggtgtgcgcgagaatgagg	W61643
17881	acacggtgtgcgcgagaatgaggca	W61643
17882	cgctaccccaagaattgcctgctga	W61643
17883	ctaccccaagaattgcctgctgaag	W61643
17884	accccaagaattgcctgctgaaggt	W61643

SEQ ID NO:	sequence	DBAxnID
60421	tgatctgtgagtcctcaggccggga	W83830
60422	tctgtgagtcctcaggccgggatat	W83830
60423	agtcctcaggccgggatatatgttg	W83830
60424	cctcaggccgggatatatgttgaat	W83830
60425	ctgcggacgctgggccatgaaaggt	W83830
60426	acgctgggccatgaaaggtactctg	W83830
60427	aggtactctgctgctggtctccagt	W83830
60428	tccaaacatctaaagcaactgtcga	X54149
60429	catctaaagcaactgtcgagttgct	X54149
60430	gagccaaggcctggcagtcctgcag	X54149
60431	ccaaggcctggcagtcctgcagcca	X54149
60432	tcgcagccgcagacggtctggacac	X54149
60433	cgggacttcgcagctacagcacatc	X54149
60434	gacttcgcagctacagcacatctat	X54149
60435	ttcgcagctacagcacatctatttt	X54149
60436	atttctactacagagacattccaat	X54149
60437	tctactacagagacattccaataaa	X54149
60438	actacagagacattccaataaactc	X54149
60439	gagacattccaataaactcgttaag	X54149
60440	aagcaactgtcgagttgctgtcccc	X54149
60441	caactgtcgagttgctgtcccctaa	X54149
60442	cggagtcaccgagactgagatgagg	X54149
60443	agtcaccgagactgagatgaggaga	X54149
60444	agccaggagcagcaccacaggtggt	X54149
60445	caggagcagcaccacaggtggtcgc	X54149
60446	gggcacctcaggcaagaggagactg	X54149
60447	ttagagccaaggcctggcagtcctg	X54149
60448	atagtttcagcatttgggaggtaga	X51397
60449	cttatccttggcaacacacctagtt	X51397
60450	cagctgttttctccccagcagcgag	X51397
60451	tctccccagcagcgaggtttgcatc	X51397
60452	ccccagcagcgaggtttgcatcttc	X51397
60453	attcctttcacgttctctaccatag	X51397
60454	ttcacgttctctaccatagaggcaa	X51397
60455	acgttctctaccatagaggcaatgt	X51397
60456	atgtcatggtccctctcagggtaca	X51397
60457	gtctcatggggcatttcactgcttg	X51397
60458	ggcatttcactgcttgatgttgagc	X51397
60459	atttcactgcttgatgttgagcatt	X51397
60460	tcagcctgggctacatgagagccta	X51397
60461	tttctctacctgttgaaagcaaagt	X51397
60462	ctctacctgttgaaagcaaagtcta	X51397
60463	aggaaggccccaaacatgatagcat	X51397
60464	aaggccccaaacatgatagcatttg	X51397
60465	atgatagcatttgggcccttagtaa	X51397
60466	gcatttgggcccttagtaagctgaa	X51397
60467	cagctgcaggctcagctgttttctc	X51397
60468	gagcaacaattgactcctatgatgt	W84060
60469	caacaattgactcctatgatgtaat	W84060
60470	actccagtcactatgaccccaatac	W84060
60471	ccagtcactatgaccccaatactac	W84060
60472	actatgaccccaatactacagcggt	W84060
60473	ccaatactacagcggttctcgtcgt	W84060
60474	atactacagcggttctcgtcgtctt	W84060
60475	ttctcgtcgtctttaagccacagga	W84060
60476	tcgtcgtctttaagccacaggattt	W84060
60477	tcgtctttaagccacaggatttaag	W84060
60478	tctttaagccacaggatttaaggtg	W84060
60479	ttaagccacaggatttaaggtggct	W84060
60480	caattgactcctatgatgtaataat	W84060
60481	acaacggtcctgtcttaggccatga	W84060
60482	ctgtcttaggccatgaagaggaagt	W84060
60483	atccagagtctgtcttttcagactc	W84060
60484	agtctgtcttttcagactccagtca	W84060
60485	ctgtcttttcagactccagtcacta	W84060
60486	tcttttcagactccagtcactatga	W84060
60487	tttcagactccagtcactatgaccc	W84060
60488	cttttaatcatataatcttacatct	X56182

SEQ ID NO	sequence	DBAxnID
103025	gactgcgaccagttatcttgttctc	AA168226
103026	tgcgaccagttatcttgttctccat	AA168226
103027	cagttatcttgttctccatggacgg	AA168226
103028	ttatcttgttctccatggacggttt	AA168226
103029	tcttgttctccatggacggttttag	AA168226
103030	tgttctccatggacggttttagagc	AA168226
103031	tctccatggacggttttagagctga	AA168226
103032	cagccctctgttcctgtgcggatga	AA168226
103033	gttcctgtgcggatgactgtctaca	AA168226
103034	atgactgtctacagaggaagtactg	AA168226
103035	agtactgctgtgctgactacgtttc	AA168226
103036	gctgtgctgactacgtttctgtgtg	AA168226
103037	gtgctgactacgtttctgtgtgcca	AA168226
103038	ctgactacgtttctgtgtgccaagg	AA168226
103039	actacgtttctgtgtgccaaggcga	AA168226
103040	gttgtgcctccagatcagagcttcc	AA168283
103041	tgtgcctccagatcagagcttccag	AA168283
103042	gagctgctctttgtgcattcagctg	AA168283
103043	gctgctctttgtgcattcagctgaa	AA168283
103044	ctctttgtgcattcagctgaaggga	AA168283
103045	ctttgtgcattcagctgaagggagt	AA168283
103046	gcattcagctgaagggagtgagttc	AA168283
103047	ttctggagtgcccttctggagaaag	AA168283
103048	gcctatgccaagatcaatgggtgct	AA168283
103049	ctatgccaagatcaatgggtgctat	AA168283
103050	tatgccaagatcaatgggtgctatg	AA168283
103051	gtgctatgaagcactctcaggggt	AA168283
103052	tgcctccagatcagagcttccagga	AA168283
103053	cctccagatcagagcttccaggaaa	AA168283
103054	tccagatcagagcttccaggaaaac	AA168283
103055	cagatcagagcttccaggaaaacta	AA168283
103056	agagcttccaggaaaactatgcagg	AA168283
103057	tccagttctggcaatatggcgagtg	AA168283
103058	ggacgacaggctgcccactaaggac	AA168283
103059	acgacaggctgcccactaaggacgg	AA168283
103060	gatgtcctcctgctcaactggacag	AA168350
103061	ctcctgctcaactggacagacatca	AA168350
103062	gtctgaatcccagtgataacagcct	AA168350
103063	tgaatcccagtgataacagcctgac	AA168350
103064	ataacagcctgaccttcactaatag	AA168350
103065	tgaccttcactaataggcaggctta	AA168350
103066	caggtcaccagcacattgcctccaa	AA168350
103067	agcacattgcctccaagcctcaggt	AA168350
103068	ccaagcctcaggtgctccacttaag	AA168350
103069	agcctcaggtgctccacttaagaga	AA168350
103070	aggtgctccacttaagagaagtggc	AA168350
103071	tgctccacttaagagaagtggcacc	AA168350
103072	ctcaactggacagacatcagcagca	AA168350
103073	aactggacagacatcagcagcaccc	AA168350
103074	gacatcagcagcaccctcaggaaga	AA168350
103075	atcagcagcaccctcaggaagagcc	AA168350
103076	agcagcaccctcaggaagagcctcc	AA168350
103077	accctcaggaagagcctcctgataa	AA168350
103078	ctcaggaagagcctcctgataaact	AA168350
103079	aacttgacagcaattttgggagcca	AA168350
103080	ccctgagcttcagacagaaactcac	W08102
103081	gcttcagacagaaactcactgagca	W08102
103082	accacctcatcctggaagccctggt	W08102
103083	acctcatcctggaagccctggttat	W08102
103084	cctcatcctggaagccctggttata	W08102
103085	tcatcctggaagccctggttatatc	W08102
103086	catcctggaagccctggttatatca	W08102
103087	cctggaagccctggttatatcaact	W08102
103088	tggaagccctggttatatcaactta	W08102
103089	agccctggttatatcaacttaagct	W08102
103090	ccctttgaagtggtaccagagcatg	W08102
103091	gctgcaccaccaaatcatccctgtg	W08102
103092	ttcagacagaaactcactgagcata	W08102

TABLE 1

SEQ ID NO	sequence	DBAxnID
17885	caagaattgcctgctgaaggtcaga	W61643
17886	agaattgcctgctgaaggtcagatc	W61643
17887	aattgcctgctgaaggtcagatcgg	W61643
17888	ttgcctgctgaaggtcagatcggta	W61643
17889	ccagccttctgagggatgtgactga	W61643
17890	caagtactgactccaagcctatcga	U10118
17891	ctgactccaagcctatcgacgcatc	U10118
17892	gtaatctgaagcctgcaaagatgcg	U10118
17893	ttctgtctcaagccatggtgatgtg	U10118
17894	tgatgtgtgccagttcaccagagaa	U10118
17895	ttacttttgatgcttttcctggaga	U10118
17896	ttgatgcttttcctggagagcctga	U10118
17897	cttttcctggagagcctgacaagga	U10118
17898	agatccagcctgacctgcacaccaa	U10118
17899	acctgcacaccaatgctgagtgtgt	U10118
17900	atgctgagtgtgtggccacatacaa	U10118
17901	catacaaaggagctccctttgaggt	U10118
17902	ccaagcctatcgacgcatcgcgtct	U10118
17903	acgcatcgcgtctggatcttcgaat	U10118
17904	cgcgtctggatcttcgaattggttg	U10118
17905	gtattgttactgccaagaagcaccc	U10118
17906	ccaagaagcaccctgatgcagattc	U10118
17907	agcaccctgatgcagattcactgta	U10118
17908	ttcctctagaacagatgcaaaatcg	U10118
17909	tggttttactctgtaatctgaagcc	U10118
17910	ggacataatgcagctccccaaagcg	W61610
17911	acataatgcagctccccaaagcgcg	W61610
17912	cacagccaaggcgaccgtgctctgt	W61610
17913	cagccaaggcgaccgtgctctgtgc	W61610
17914	tgctctgtgcatcttataccctgtt	W61610
17915	gctctgtgcatcttataccctgttt	W61610
17916	tctgtgcatcttataccctgtttaa	W61610
17917	gtgcatcttataccctgtttaagga	W61610
17918	tgcatcttataccctgtttaaggaa	W61610
17919	aagatactaatcgctttgatcttga	W61610
17920	agatactaatcgctttgatcttgaa	W61610
17921	atactaatcgctttgatcttgaact	W61610
17922	agattcatcccactggaaaaatgtt	W61610
17923	tactaatcgctttgatcttgaactt	W61610
17924	gattcatcccactggaaaaatgttt	W61610
17925	ttcatcccactggaaaaatgtttat	W61610
17926	tcatcccactggaaaaatgtttatt	W61610
17927	aatgtttattctttcagatggagaa	W61610
17928	ggagccacttgacgaggaaatctct	W61610
17929	aatctctgggattgtagaagtagtt	W61610
17930	tcacagccaaggcgaccgtgctctg	W61610
17931	tcattggccaaaccaggaactcata	D28132
17932	gccaaaccaggaactcatatcctcc	D28132
17933	gatgtttttgcaactgtgggcaagc	D28132
17934	agagtgcctttccctgcagtgctca	D28132
17935	cctttccctgcagtgctcagagacc	D28132
17936	cctgcagtgctcagagaccctggaa	D28132
17937	gtgctcagagaccctggaagactat	D28132
17938	agactatgtcgtggtccagtgcaag	D28132
17939	tgtcgtggtccagtgcaaggactgt	D28132
17940	ctgtacctagtgttctggcacagcc	D28132
17941	ctagtgttctggcacagcctatgta	D28132
17942	acacacacaccgacagcaacggaat	D28132
17943	actcatatcctcctgaggcacttag	D28132
17944	atcctcctgaggcacttagcatctg	D28132
17945	ctgaggcacttagcatctgctgctt	D28132
17946	tgagcagctctggatcccatgttgt	D28132
17947	cattcagcccagggtttgttctcta	D28132
17948	atcaagtattcctacccgatacttg	D28132
17949	tattcctacccgatacttgccaata	D28132
17950	ttttccgatgtttttgcaactgtgg	D28132
17951	ttcggtccaccagacgtgccaccag	AA118682
17952	ccagacgtgccaccagcctggagct	AA118682

SEQ ID NO:	sequence	DBAxnID
60489	taatcttacatcttttcttataaga	X56182
60490	atatcacatttccattgtaagcaca	X56182
60491	tcacatttccattgtaagcacattt	X56182
60492	catttccattgtaagcacatttcaa	X56182
60493	cacatttcaagaatgcctggtaaat	X56182
60494	atttcaagaatgcctggtaaatgaa	X56182
60495	gttatttcatacaatgtccagttgt	X56182
60496	ttactatatacagtactttgccaat	X56182
60497	ctatatacagtactttgccaatcat	X56182
60498	tatacagtactttgccaatcatgag	X56182
60499	acagtactttgccaatcatgagcca	X56182
60500	tcttacatcttttcttataagaaat	X56182
60501	atccccaatgaaattagcaaaccat	X56182
60502	attagcaaaccatgaacacgaacat	X56182
60503	agcaaaccatgaacacgaacattta	X56182
60504	ccatgaacacgaacatttaagaatg	X56182
60505	atgatcacacagttagccttgtaga	X56182
60506	atcacacagttagccttgtagatat	X56182
60507	acacagttagccttgtagatatgta	X56182
60508	cctgacctggaagccatgcatccct	W83357
60509	ctgacctggaagccatgcatcccta	W83357
60510	tggacctgctggctgtttactgccg	W83357
60511	ggacctgctggctgtttactgccgc	W83357
60512	gacctgctggctgtttactgccgca	W83357
60513	acctgctggctgtttactgccgcag	W83357
60514	cctgctggctgtttactgccgcagt	W83357
60515	ctggctgtttactgccgcagtgagg	W83357
60516	ggccgcgggattcaggcttgtcaac	W83357
60517	tgacctggaagccatgcatccctac	W83357
60518	acctggaagccatgcatccctactc	W83357
60519	cctggaagccatgcatccctactca	W83357
60520	ctggaagccatgcatccctactcaa	W83357
60521	ccatgcatccctactcaagaaggag	W83357
60522	ccttggacctgctggctgtttactg	W83357
60523	cttggacctgctggctgtttactgc	W83357
60524	ttggacctgctggctgtttactgcc	W83357
60525	tgaacatgcgtcctgacacctgctc	X04332
60526	aacatgcgtcctgacacctgctcag	X04332
60527	gatgctgaactgcacctatcagagt	X04332
60528	tgctgaactgcacctatcagagtac	X04332
60529	ctgaactgcacctatcagagtactt	X04332
60530	actgcacctatcagagtacttactc	X04332
60531	tgcacctatcagagtacttactcac	X04332
60532	cacctatcagagtacttactcacct	X04332
60533	cctatcagagtacttactcaccttt	X04332
60534	tcagagtacttactcacctttcctt	X04332
60535	tactcacctttccttttctggtatg	X04332
60536	gcccctaagctacttttgaagagct	X04332
60537	actctgtgacccagacagaaggcct	X04332
60538	tgtgacccagacagaaggcctggtc	X04332
60539	tgacccagacagaaggcctggtcac	X04332
60540	acagaaggcctggtcactctcaccg	X04332
60541	agaaggcctggtcactctcaccgag	X04332
60542	cctggtcactctcaccgaggggttg	X04332
60543	ctcaccgaggggttgcctgtgatgc	X04332
60544	ttgcctgtgatgctgaactgcacct	X04332
60545	atgagcaccgaaccagctgtctgct	U07425
60546	accgaaccagctgtctgctcttcat	U07425
60547	gataatctctgtggtttatgataat	U07425
60548	gttgtgccagctattccctagaggt	U07425
60549	tagaggtcctagacacacagactgc	U07425
60550	tcctagacacacagactgccttagc	U07425
60551	cagcctttattcgtcaacggcctct	U07425
60552	aagtagcaccgttcctgcccagtgg	U07425
60553	ggaaagcaatcccaacatgtctgag	U07425
60554	caatcccaacatgtctgagatgttc	U07425
60555	aggactacatagtctatcctagaga	U07425
60556	acatagtctatcctagagataaata	U07425

SEQ ID NO	sequence	DBAxnID
103093	tcagacagaaactcactgagcatac	W08102
103094	gacagaaactcactgagcatacact	W08102
103095	cagaaactcactgagcatacactca	W08102
103096	aactcactgagcatacactcaaaga	W08102
103097	ctcactgagcatacactcaaagaac	W08102
103098	tcactgagcatacactcaaagaacc	W08102
103099	ctgagcatacactcaaagaaccatc	W08102
103100	aggctctatcgagttagaggatctc	AA168279
103101	tagaggatctccttgcaacagtcgc	AA168279
103102	tatgctgtatctgtgcgacttgcaa	AA168279
103103	tgctgtatctgtgcgacttgcaaat	AA168279
103104	ctgtatctgtgcgacttgcaaatat	AA168279
103105	atctgtgcgacttgcaaatatctta	AA168279
103106	accattactgtagggcgcttcacat	AA168279
103107	ttactgtagggcgcttcacatggta	AA168279
103108	actgtagggcgcttcacatggtatc	AA168279
103109	tagggcgcttcacatggtatcttaa	AA168279
103110	gcgcttcacatggtatcttaagggt	AA168279
103111	gcttcacatggtatcttaagggtaa	AA168279
103112	ctccttgcaacagtcgctacctcta	AA168279
103113	ccttgcaacagtcgctacctctact	AA168279
103114	gcaacagtcgctacctctacttaag	AA168279
103115	aacagtcgctacctctacttaagtg	AA168279
103116	cagtcgctacctctacttaagtgac	AA168279
103117	gtcgctacctctacttaagtgacta	AA168279
103118	tgtacgtcagtatcgagatgtatgc	AA168279
103119	tgtatgctgtatctgtgcgacttgc	AA168279
103120	atgccatcggaagtgcggagaggct	AA168440
103121	ccatcggaagtgcggagaggctgaa	AA168440
103122	atgatgaccagtacaaactggaaca	AA168440
103123	atgaccagtacaaactggaacaggc	AA168440
103124	aaactggaacaggctgacgatatat	AA168440
103125	cagatgtaggctctctgagatagcg	AA168440
103126	atgtaggctctctgagatagcgcta	AA168440
103127	tgtaggctctctgagatagcgctat	AA168440
103128	taggctctctgagatagcgctattc	AA168440
103129	aggctctctgagatagcgctattca	AA168440
103130	ggctctctgagatagcgctattcag	AA168440
103131	ctctctgagatagcgctattcagct	AA168440
103132	gtgagcatcacgtactcaagaagaa	AA168440
103133	tgagcatcacgtactcaagaagaag	AA168440
103134	gagcatcacgtactcaagaagaagc	AA168440
103135	gcatcacgtactcaagaagaagcat	AA168440
103136	catcacgtactcaagaagaagcatg	AA168440
103137	atcacgtactcaagaagaagcatga	AA168440
103138	ataagtatgccgagtccgatgaatg	AA168440
103139	atgccgagtccgatgaatgatgacc	AA168440
103140	gactgtactcacgctgtataatatg	W09127
103141	tgtactcacgctgtataatatggac	W09127
103142	cagatcctccagcagagcatcacgg	W09127
103143	atcctccagcagagcatcacggtgg	W09127
103144	gtgcctttctccagaaggtcttctg	W09127
103145	aggtcttctggatatctcaccagaa	W09127
103146	tcttctggatatctcaccagaaaat	W09127
103147	tctggatatctcaccagaaaatata	W09127
103148	gagaagaacaacctccgagactggc	W09127
103149	ctgcgcgttcatcgcaacatgagag	W09127
103150	cgcgttcatcgcaacatgagagaga	W09127
103151	gttcatcgcaacatgagagagagtt	W09127
103152	actcacgctgtataatatggactca	W09127
103153	aaggatgctgccaaatcagaccaga	W09127
103154	gatgctgccaaatcagaccagatcc	W09127
103155	gctgccaaatcagaccagatcctcc	W09127
103156	gccaaatcagaccagatcctccagc	W09127
103157	aaatcagaccagatcctccagcaga	W09127
103158	tcagaccagatcctccagcagagca	W09127
103159	gaccagatcctccagcagagcatca	W09127
103160	tcctgccactttaatctcgtgatgc	W20613

TABLE 1

SEQ ID NO	sequence	DBAxnID
17953	atctcaaaaagacatccaaagaggc	AA118682
17954	catccaaagaggctgtgggagtcta	AA118682
17955	tctacagatcagctatccatggacg	AA118682
17956	acagatcagctatccatggacgagg	AA118682
17957	ctatccatggacgaggtctgttttg	AA118682
17958	aacgcaacatcgatgcgggagagat	AA118682
17959	agtactctggcattgtcattcgctc	AA118682
17960	ctggcattgtcattcgctctgtgct	AA118682
17961	tgctgactgacaagcgagagaagtt	AA118682
17962	acatgttccgcatggatgactttga	AA118682
17963	gacgtgccaccagcctggagcttcc	AA118682
17964	ccaccagcctggagcttcctatggc	AA118682
17965	agcttcctatggccatgcgctttcg	AA118682
17966	ttcctatggccatgcgctttcgtca	AA118682
17967	ccatgcgctttcgtcatctcaaaaa	AA118682
17968	tgcgctttcgtcatctcaaaaagac	AA118682
17969	gctttcgtcatctcaaaaagacatc	AA118682
17970	gtcatctcaaaaagacatccaaaga	AA118682
17971	cttctccggaggcagctttttgag	L22482
17972	aggcagctttttgagcacgagggt	L22482
17973	cccattagcctggaatgtagctctc	L22482
17974	gaatgtagctctcactttgacatga	L22482
17975	gacatgattctggttctcttgtctg	L22482
17976	attctggttctcttgtctgaccaag	L22482
17977	ctggttctcttgtctgaccaagtag	L22482
17978	aggatgtccctgttcacccatggca	L22482
17979	atgtccctgttcacccatggcacac	L22482
17980	tccctgttcacccatggcacactat	L22482
17981	ttcacccatggcacactattctgta	L22482
17982	ggcacactattctgtacacattttt	L22482
17983	cagcttttttgagcacgagggtcgc	L22482
17984	gactgagtcctccagatccctggct	L22482
17985	tgagtcctccagatccctggctctg	L22482
17986	atccctggctctggagctacccagg	L22482
17987	cctggctctggagctacccaggcat	L22482
17988	tggcccagccactggagaggcctac	L22482
17989	agatgctctaggtttgtcaatttca	L22482
17990	ggccccattagcctggaatgtagct	L22482
17991	cagtaggccccaacgagctgtcctc	W61724
17992	agtaggccccaacgagctgtcctca	W61724
17993	gtacaaccactgttggcgagcagat	W61724
17994	acaaccactgttggcgagcagattg	W61724
17995	caaccactgttggcgagcagattga	W61724
17996	accactgttggcgagcagattgaca	W61724
17997	ccactgttggcgagcagattgacaa	W61724
17998	actactatgactaccaggaagtaga	W61724
17999	tactatgactaccaggaagtagatc	W61724
18000	actatgactaccaggaagtagatcc	W61724
18001	tatgactaccaggaagtagatcctc	W61724
18002	gatcctcgaaccccttgtagagaag	W61724
18003	agctgtcctcatcggcagcaacggc	W61724
18004	gaggtcaaccgcaggcgcctgcccg	W61724
18005	gctgtcctcatcggcagcaacggct	W61724
18006	tgtcctcatcggcagcaacggctcc	W61724
18007	gtcctcatcggcagcaacggctcct	W61724
18008	ggcagcaacggctcctcactccatg	W61724
18009	acatgagatgcacctgcctcttcct	W61724
18010	gcgcagtcccggaccatgtccggta	W61724
18011	ggtacaaccactgttggcgagcaga	W61724
18012	ttcattaaagccatcaaaggatatt	U02487
18013	attaaagccatcaaaggatattagg	U02487
18014	gcaagttcagcctctctgatggcca	U02487
18015	agttcagcctctctgatggccagct	U02487
18016	gccagctgcttagtgtgtaagccac	U02487
18017	ttctcattttcttgtctcaagtgag	U02487
18018	ttatgagtctgcatatggtgctgca	U02487
18019	tgagtctgcatatggtgctgcagcc	U02487
18020	tgctgcagccgcctttcctggcctt	U02487

SEQ ID NO:	sequence	DBAxnID
60557	ccagctgtctgctcttcatgggaaa	U07425
60558	taaataaacaaccatatttaccatg	U07425
60559	gtctgctcttcatgggaaaagtgac	U07425
60560	ccaaccctgccaagtcttaatggca	U07425
60561	ctgccaagtcttaatggcagtggtc	U07425
60562	agtggtctgggcacctgatgtagtt	U07425
60563	ctgggcacctgatgtagtttgggga	U07425
60564	acactctgtattcctgttttcattc	U07425
60565	tgtattcctgttttcattctaacaa	U07425
60566	tccgtgacccagacagaaggcctgg	X06305
60567	cgtgacccagacagaaggcctggtc	X06305
60568	gatgctgaactgcacctatcagact	X06305
60569	tgctgaactgcacctatcagactat	X06305
60570	ctgaactgcacctatcagactattt	X06305
60571	actgcacctatcagactatttactc	X06305
60572	tgcacctatcagactatttactcaa	X06305
60573	cacctatcagactatttactcaaat	X06305
60574	tcagactatttactcaaatcctttc	X06305
60575	caacatctcaatgaatcccctcggc	X06305
60576	acatctcaatgaatcccctcggcta	X06305
60577	atctcaatgaatcccctcggctact	X06305
60578	tgacccagacagaaggcctggtcac	X06305
60579	acagaaggcctggtcactctcacag	X06305
60580	agaaggcctggtcactctcacagaa	X06305
60581	ggcctggtcactctcacagaagggt	X06305
60582	cctggtcactctcacagaagggttg	X06305
60583	tggtcactctcacagaagggttgcc	X06305
60584	gtcactctcacagaagggttgcctg	X06305
60585	ttgcctgtgatgctgaactgcacct	X06305
60586	aacatgcgtcctgacacctgctcag	X06306
60587	agactcagtgacccagacagaaggc	X06306
60588	ctcaccaaggggttgcctgtgatgc	X06306
60589	ttgcctgtgatgctgaactgcacct	X06306
60590	gatgctgaactgcacctatcagact	X06306
60591	tgctgaactgcacctatcagactac	X06306
60592	ctgaactgcacctatcagactactt	X06306
60593	gaactgcacctatcagactacttac	X06306
60594	actgcacctatcagactacttactc	X06306
60595	tgcacctatcagactacttactcac	X06306
60596	tatcagactacttactcacctttcc	X06306
60597	tactcacctttccttttctggtatg	X06306
60598	actcagtgacccagacagaaggcct	X06306
60599	agtgacccagacagaaggcctggtc	X06306
60600	tgacccagacagaaggcctggtcac	X06306
60601	acccagacagaaggcctggtcactc	X06306
60602	acagaaggcctggtcactctcacca	X06306
60603	agaaggcctggtcactctcaccaag	X06306
60604	aaggcctggtcactctcaccaaggg	X06306
60605	gtcactctcaccaaggggttgcctg	X06306
60606	catgcgtcctgtcacctgctcagtt	X06307
60607	tggagactccgtgacccagacagaa	X06307
60608	gttgcctgtgatgctgaactgcacc	X06307
60609	gatgctgaactgcacctatcagact	X06307
60610	gctgaactgcacctatcagactgct	X06307
60611	gaactgcacctatcagactgcttac	X06307
60612	ctgcacctatcagactgcttactca	X06307
60613	tcagactgcttactcagatgttgcc	X06307
60614	gactgcttactcagatgttgccttt	X06307
60615	ttactcagatgttgccttttttctgg	X06307
60616	ctcagatgttgccttttttctggtat	X06307
60617	tgccttttttctggtatgtgcaatat	X06307
60618	agactccgtgacccagacagaaggc	X06307
60619	ctccgtgacccagacagaaggcctg	X06307
60620	cgtgacccagacagaaggcctggtc	X06307
60621	gacccagacagaaggcctggtcact	X06307
60622	gacagaaggcctggtcactgtcaca	X06307
60623	agaaggcctggtcactgtcacagaa	X06307
60624	cctggtcactgtcacagaagggttg	X06307

SEQ ID NO	sequence	DBAxnID
103161	cactttaatctcgtgatgcttagct	W20613
103162	ccactcgacgagtccaggtggcaga	W20613
103163	ctcgacgagtccaggtggcagaaca	W20613
103164	tggcagaacatcccagattgctgaa	W20613
103165	aacatcccagattgctgaagctaaa	W20613
103166	atcccagattgctgaagctaaaaga	W20613
103167	tttatgttcgagccccaggaagagt	W20613
103168	atgttcgagccccaggaagagtcaa	W20613
103169	attccgttattcccatggctgtgga	W20613
103170	ccgttattcccatggctgtggaaca	W20613
103171	ttcccatggctgtggaacaagacat	W20613
103172	tttaatctcgtgatgcttagctgtg	W20613
103173	aatctcgtgatgcttagctgtgctg	W20613
103174	gtgatgcttagctgtgctgcacttc	W20613
103175	atgcttagctgtgctgcacttctgg	W20613
103176	cttagctgtgctgcacttctggaaa	W20613
103177	tgtgctgcacttctggaaactgcag	W20613
103178	gctgcacttctggaaactgcagagg	W20613
103179	gcacttctggaaactgcagagggat	W20613
103180	tcacccagtgcctgtccttgatgca	AA168485
103181	agtgcctgtccttgatgcactgctg	AA168485
103182	ccttcatcttcaagtactcggccac	AA168485
103183	tcttcaagtactcggccacaacagg	AA168485
103184	agtactcggccacaacaggtctcac	AA168485
103185	cggccacaacaggtctcaccaagct	AA168485
103186	caacaggtctcaccaagctcattga	AA168485
103187	gtctcaccaagctcattgatgcctc	AA168485
103188	ccaagctcattgatgcctccagagt	AA168485
103189	atgcctccagagtgtcagagacaga	AA168485
103190	agacagagtactctgccctggaaca	AA168485
103191	agtactctgccctggaacagaacac	AA168485
103192	tgtccttgatgcactgctgtgtcaa	AA168485
103193	ctctgccctggaacagaacaccaag	AA168485
103194	tgatgcactgctgtgtcaaccccgt	AA168485
103195	accccgtgctctacagcttcatcaa	AA168485
103196	tgctctacagcttcatcaaccgcaa	AA168485
103197	acagcttcatcaaccgcaactacag	AA168485
103198	tcatcaaccgcaactacaggtacga	AA168485
103199	accgcaactacaggtacgagctgat	AA168485
103200	actacaggtacgagctgatgaaggc	AA168485
103201	aagtaaatacatcccactttgtcat	J00355
103202	agtaaatacatcccactttgtcatt	J00355
103203	catagatctgttcccatattatccc	J00355
103204	atagatctgttcccatattatccca	J00355
103205	tagatctgttcccatattatcccat	J00355
103206	acatattcatcttatacaattctaa	J00355
103207	catattcatcttatacaattctaat	J00355
103208	atattcatcttatacaattctaatt	J00355
103209	attcatcttatacaattctaattta	J00355
103210	gtaaatacatcccactttgtcattt	J00355
103211	tttttctgtcatagatctgttccca	J00355
103212	tttctgtcatagatctgttcccata	J00355
103213	ttctgtcatagatctgttcccatat	J00355
103214	ctgtcatagatctgttcccatatta	J00355
103215	tgtcatagatctgttcccatattat	J00355
103216	gtcatagatctgttcccatattatc	J00355
103217	tcatagatctgttcccatattatcc	J00355
103218	agaatctcgtctaggcagatccacg	AA168554
103219	atctcgtctaggcagatccacgctt	AA168554
103220	actgcatgagcgccagcagagctgc	AA168554
103221	gcatgagcgccagcagagctgctca	AA168554
103222	tgagcgccagcagagctgctcatgc	AA168554
103223	gagctgctcatgcatacctgtggaa	AA168554
103224	agtcacgcagtcatatagaatagaa	AA168554
103225	gcggctcaccattgtgggcctccaa	AA168554
103226	caccattgtgggcctccaagcattt	AA168554
103227	tgtgggcctccaagcatttggggag	AA168554
103228	gggcctccaagcatttggggagcag	AA168554

TABLE 1

SEQ ID NO	sequence	DBAxnID
18021	agccgcctttcctggccttgatcaa	U02487
18022	ctttcctggccttgatcaaattgag	U02487
18023	gagtgtttctacacatttgaggtgg	U02487
18024	caactatagaggggccactgaaaga	U02487
18025	aaccttgaaagctgtccaccatttg	U02487
18026	ccaccatttgcagtcatgaacggtg	U02487
18027	ggtgtcttcatatttcctggtgact	U02487
18028	gtcttcatatttcctggtgactacc	U02487
18029	ttcatatttcctggtgactacctca	U02487
18030	gacactgcgtgatcacctttgtata	U02487
18031	ttactctcgttaccccagaatgtgt	U02487
18032	ttgttacagaccatgtgacagttcc	M92416
18033	atgtgacagttcctctgcacagtgg	M92416
18034	caaccagctcttgactctaaggcag	M92416
18035	tgtatacctcatgaactactgaaac	M92416
18036	acaaggttctctttgtcttcattgt	M92416
18037	ttgtcttcattgttaaggacctcgg	M92416
18038	ggctgggtcctggtacagaactgtt	M92416
18039	gtacagaactgttctcgggcttgag	M92416
18040	gctgttcaatcatgtgcttgagaaa	M92416
18041	tgctgtgcaaaccataacatgtccc	M92416
18042	gcaaaccataacatgtcccagcaag	M92416
18043	cataacatgtcccagcaagaagtta	M92416
18044	cagttcctctgcacagtggatctgt	M92416
18045	acagaccagccatgcttgtcacttt	M92416
18046	tgcttgtcactttcctgaagaaaac	M92416
18047	tagaacctacagaaatactgcagcc	M92416
18048	tgcagcctgtgcttacatctgagtg	M92416
18049	ttacatctgagtggatggctcctct	M92416
18050	agtggctaccttcaaccagctcttg	M92416
18051	taccttcaaccagctcttgactcta	M92416
18052	taccccatacatagagtgaccccac	W61798
18053	accccatacatagagtgaccccacg	W61798
18054	ggtgtgcaccacgacacacgcagcc	W61798
18055	acacgcagccctgccaggcgagttc	W61798
18056	tgccaggcgagttctgggaggttct	W61798
18057	tgctatgtcccctgcgcagaacacg	W61798
18058	ggtgtctgctggtgatgtgctagat	W61798
18059	gtgtctgctggtgatgtgctagata	W61798
18060	tgtctgctggtgatgtgctagatag	W61798
18061	gtctgctggtgatgtgctagatagg	W61798
18062	tctgctggtgatgtgctagatagga	W61798
18063	gaagaaagcccactggctcgttcct	W61798
18064	gctctgctgactgcagtgtggatgc	W61798
18065	tctgctgactgcagtgtggatgcac	W61798
18066	ctgctgactgcagtgtggatgcact	W61798
18067	gatgcactgctaagcggcgcagagg	W61798
18068	gcactgctaagcggcgcagaggaag	W61798
18069	cactgctaagcggcgcagaggaagg	W61798
18070	ctgctaagcggcgcagaggaaggaa	W61798
18071	aggtgtgcaccacgacacacgcagc	W61798
18072	gctactccagtgccactgtcaaaag	X83106
18073	ccagtgccactgtcaaaagagccaa	X83106
18074	catacatgtcggcactgagagactg	X83106
18075	gagactgcacattccagtcagttca	X83106
18076	gcacattccagtcagttcagagcac	X83106
18077	tccagtcagttcagagcacccaaga	X83106
18078	aatccttagcccaagcaagtgtcac	X83106
18079	tagcccaagcaagtgtcacctctca	X83106
18080	gtcctgcagctgacgagatctttcc	X83106
18081	ttctggctcacgatgatactcgccc	X83106
18082	ctcacgatgatactcgcccaggaga	X83106
18083	atgatactcgcccaggagagttgga	X83106
18084	tcaaaagagccaagctccaggacgg	X83106
18085	gcccttgcacgcaaacctcatgtac	X83106
18086	tgaccaatagcagctctgtccactt	X83106
18087	atagcagctctgtccactttgcaga	X83106
18088	gctctgtccactttgcagaaagcac	X83106
60625	ggtcactgtcacagaagggttgcct	X06307
60626	tgaacatgcgtcctgtcacctcctc	X06308
60627	aacatgcgtcctgtcacctcctcag	X06308
60628	ctgaactgcacctatcagactactt	X06308
60629	actgcacctatcagactacttattt	X06308
60630	tgcacctatcagactacttatttaa	X06308
60631	cacctatcagactacttatttaact	X06308
60632	cctatcagactacttatttaactat	X06308
60633	tcagactacttatttaactattgcc	X06308
60634	actattgccttttctggtatgtgc	X06308
60635	tattgccttttctggtatgtgcaa	X06308
60636	ttgccttttctggtatgtgcaata	X06308
60637	gccttttctggtatgtgcaatatc	X06308
60638	actccgtgacccagacagaaggcct	X06308
60639	tccgtgacccagacagaaggcctgg	X06308
60640	cgtgacccagacagaaggcctggtc	X06308
60641	tgacccagacagaaggcctggtcac	X06308
60642	acagaaggcctggtcactgtcaccg	X06308
60643	ttgcctgtgaagctgaactgcacct	X06308
60644	gaagctgaactgcacctatcagact	X06308
60645	agctgaactgcacctatcagactac	X06308
60646	taccacctggtttttgacacctatg	AA096992
60647	tttttgacacctatgccatcaccat	AA096992
60648	catcaccattaatgaatgggtggaa	AA096992
60649	tggaaagccataaactccttggact	AA096992
60650	ttttgaaactgccaggcaagaagaa	AA096992
60651	tttgaaactgccaggcaagaagaat	AA096992
60652	tgaaactgccaggcaagaagaatta	AA096992
60653	gaaactgccaggcaagaagaattat	AA096992
60654	aaactgccaggcaagaagaattatg	AA096992
60655	aattatgccagattacgaccgttag	AA096992
60656	attatgccagattacgaccgttagg	AA096992
60657	ttatgccagattacgaccgttaggt	AA096992
60658	ttttgacacctatgccatcaccatt	AA096992
60659	tttgacacctatgccatcaccatta	AA096992
60660	tgacacctatgccatcaccattaat	AA096992
60661	gacacctatgccatcaccattaatg	AA096992
60662	acacctatgccatcaccattaatga	AA096992
60663	cctatgccatcaccattaatgaatg	AA096992
60664	ctatgccatcaccattaatgaatgg	AA096992
60665	atgccatcaccattaatgaatgggt	AA096992
60666	ttgtcctgttggcttctttggccac	W84167
60667	ctgttggcttctttggccacgcgtg	W84167
60668	gtcctctgattatatcagcagctcg	W84167
60669	ctgattatatcagcagctcgagcag	W84167
60670	tgattatatcagcagctcgagcaga	W84167
60671	gattatatcagcagctcgagcagac	W84167
60672	attatatcagcagctcgagcagact	W84167
60673	ttatatcagcagctcgagcagacta	W84167
60674	tatatcagcagctcgagcagactaa	W84167
60675	atatcagcagctcgagcagactaag	W84167
60676	tatcagcagctcgagcagactaagc	W84167
60677	atcagcagctcgagcagactaagcc	W84167
60678	ccacgcgtggactttcccatgatcc	W84167
60679	tcagcagctcgagcagactaagccc	W84167
60680	atgatccccagagccctgtcctctg	W84167
60681	gatccccagagccctgtcctctgat	W84167
60682	cccagagccctgtcctctgattata	W84167
60683	ccctgtcctctgattatatcagcag	W84167
60684	cctgtcctctgattatatcagcagc	W84167
60685	ctgtcctctgattatatcagcagct	W84167
60686	tgtcctctgattatatcagcagctc	W84167
60687	cggtgtatgcatctccatgaaaaaa	W85144
60688	tgtatgcatctccatgaaaaaaggg	W85144
60689	atccagagactgagacctgtctaca	W85144
60690	agactgagacctgtctacacacgtt	W85144
60691	ctgagacctgtctacacacgttaca	W85144
60692	agacctgtctacacacgttacaggg	W85144
103229	cctccaagcatttggggagcagtcg	AA168554
103230	tctaggcagatccacgcttgtcaac	AA168554
103231	aggcagatccacgcttgtcaacagc	AA168554
103232	gcttgtcaacagcctcatcgtccat	AA168554
103233	tgtcaacagcctcatcgtccatgac	AA168554
103234	cagcctcatcgtccatgacttgtac	AA168554
103235	catcgtccatgacttgtaccgggat	AA168554
103236	ccatgacttgtaccgggatcgacaa	AA168554
103237	tcgacaactgcatgagcgccagcag	AA168554
103238	cccgagttcctgacaatgatgtcca	AA168690
103239	cgagttcctgacaatgatgtccagg	AA168690
103240	agtgcagccgagctgaggcacgtga	AA168690
103241	tgcagccgagctgaggcacgtgatg	AA168690
103242	gcagccgagctgaggcacgtgatga	AA168690
103243	atacaggcggcagatacagatggtg	AA168690
103244	ggagtttgtccacatgctggtgtcc	AA168690
103245	gagtttgtccacatgctggtgtcca	AA168690
103246	gtttgtccacatgctggtgtccaaa	AA168690
103247	tttgtccacatgctggtgtccaaat	AA168690
103248	tgtccacatgctggtgtccaaatga	AA168690
103249	gtccacatgctggtgtccaaatgag	AA168690
103250	tggcaatggcttcgtcagtgcagcc	AA168690
103251	caatggcttcgtcagtgcagccgag	AA168690
103252	aatggcttcgtcagtgcagccgagc	AA168690
103253	tggcttcgtcagtgcagccgagctg	AA168690
103254	ggcttcgtcagtgcagccgagctga	AA168690
103255	cttcgtcagtgcagccgagctgagg	AA168690
103256	cgtcagtgcagccgagctgaggcac	AA168690
103257	gtcagtgcagccgagctgaggcacg	AA168690
103258	acaacggctgagggaccaaatcaag	AA168723
103259	tagcgtccaacgagatcaaggacaa	AA168723
103260	caagctcattgagacgcaaatggaa	AA168723
103261	cttacagcaaagagggcctgggctg	AA168723
103262	gtggtcacgaataccatcgacacgc	AA168723
103263	ggtcacgaataccatcgacacgctc	AA168723
103264	acgaataccatcgacacgctcaaca	AA168723
103265	ataccatcgacacgctcaacatgca	AA168723
103266	accatcgacacgctcaacatgcagg	AA168723
103267	tcgacacgctcaacatgcaggtgga	AA168723
103268	gacacgctcaacatgcaggtggacc	AA168723
103269	cacgctcaacatgcaggtggaccag	AA168723
103270	gcgtccaacgagatcaaggacaaga	AA168723
103271	ctcaacatgcaggtggaccagtttg	AA168723
103272	gcagcttatagacaaccgcaagctc	AA168723
103273	agcttatagacaaccgcaagctcat	AA168723
103274	cttatagacaaccgcaagctcattg	AA168723
103275	tagacaaccgcaagctcattgagac	AA168723
103276	gacaaccgcaagctcattgagacgc	AA168723
103277	caaccgcaagctcattgagacgcaa	AA168723
103278	accgcaagctcattgagacgcaaat	AA168723
103279	cctattggggtgtttcgcgagtgtg	AA168729
103280	ccgcggcctgtatttctagacctgc	AA168729
103281	tgctacggcctgtggctggactgcc	AA168729
103282	ctacggcctgtggctggactgcctg	AA168729
103283	gactgcctgctgctgcccaactggc	AA168729
103284	ctgctgctgcccaactggctggcaa	AA168729
103285	tgctgcccaactggctggcaagatg	AA168729
103286	ctgcccaactggctggcaagatgaa	AA168729
103287	gcccaactggctggcaagatgaagc	AA168729
103288	ccaactggctggcaagatgaagctc	AA168729
103289	agatgaagctctccctggtggccgc	AA168729
103290	agctctccctggtggccgcgatgct	AA168729
103291	ggcctgtatttctagacctgcccctt	AA168729
103292	tgtatttctagacctgcccttcgcc	AA168729
103293	tttctagacctgcccttcgcctggt	AA168729
103294	gcctggttcgtggcgccttgtgacc	AA168729
103295	cctgccgcctgcaagtcggaaattg	AA168729
103296	tgccgcctgcaagtcggaaattgcg	AA168729

TABLE 1

SEQ ID NO	sequence	DBAxnID
18089	tccactttgcagaaagcacataggg	X83106
18090	gtcttgagtgcagtcagtcgcttct	X83106
18091	gtcagtcgcttctctgtccatacat	X83106
18092	caatacacatctccagattttctct	W61805
18093	atacacatctccagattttctctat	W61805
18094	cgctcttggttgccatgtatatttt	W61805
18095	atttttgctggagcataacgatgg	W61805
18096	tttttgctggagcataacgatggga	W61805
18097	acattggtcgtcagctagcaatgta	W61805
18098	tggtcgtcagctagcaatgtatgaa	W61805
18099	gtcgtcagctagcaatgtatgaatg	W61805
18100	tgctgaaaaatctcatcaagaatga	W61805
18101	ctgaaaaatctcatcaagaatgaag	W61805
18102	agaagtctcagctgttgtgtggaag	W61805
18103	gaggacacagtttttccctgaatgg	W61805
18104	acacatctccagattttctctatgt	W61805
18105	acatctccagattttctctatgtcc	W61805
18106	atctccagattttctctatgtccgc	W61805
18107	ctccagattttctctatgtccgctc	W61805
18108	ccagattttctctatgtccgctctt	W61805
18109	agattttctctatgtccgctcttgg	W61805
18110	tctctatgtccgctcttggttgcca	W61805
18111	tccgctcttggttgccatgtatatt	W61805
18112	gctcgagtcccataagctccctgga	U20636
18113	gtcccataagctccctggatggtgg	U20636
18114	ggacactgcctatgggtactgtgta	U20636
18115	tgcctatgggtactgtgtagatcct	U20636
18116	gaccagctcagcctctacgtgttgg	U20636
18117	ctcagcctctacgtgttggacagca	U20636
18118	gacagcagccacccagctgtcatgc	U20636
18119	ccagctgtcatgcgcacctgtgaaa	U20636
18120	gcctctgtgttggcattcactttct	U20636
18121	caggagctgacagcctccttggaat	U20636
18122	ctgacagcctccttggaatactagc	U20636
18123	cagttcaaaccctgctggcaagtc	U20636
18124	gcagccactcaagcacaaagccttg	U20636
18125	gcacaaagccttgccaccatcaggc	U20636
18126	gccaccatcaggccaagaagtcatg	U20636
18127	gtgttcaccagcagcctgtaaagcg	U20636
18128	gccaaaacctgtctgtacacagtga	U20636
18129	gccttcactatggtgaatgtttact	U20636
18130	agggctgctgtttctctaggacact	U20636
18131	gctgtttctctaggacactgcctat	U20636
18132	tccgggtcacctttctgaagatttg	W61814
18133	tcacctttctgaagatttggaatga	W61814
18134	tcgatgaagacctcccagaggagaa	W61814
18135	cgatgaagacctcccagaggagaaa	W61814
18136	atgaagacctcccagaggagaaagc	W61814
18137	aagacctcccagaggagaaagctga	W61814
18138	agacctcccagaggagaaagctgag	W61814
18139	cctcccagaggagaaagctgaggac	W61814
18140	agcccatgcccagcggctctctgtt	W61814
18141	ccatgcccagcggctctctgttcaa	W61814
18142	catgcccagcggctctctgttcaac	W61814
18143	tgcccagcggctctctgttcaactc	W61814
18144	caccttttctgaagatttggaatgac	W61814
18145	atgaccacttccgatgccagcctaa	W61814
18146	tgaccacttccgatgccagcctaag	W61814
18147	atgccagcctaagcctcccatcgat	W61814
18148	gccagcctaagcctcccatcgatga	W61814
18149	ccagcctaagcctcccatcgatgaa	W61814
18150	ctaagcctcccatcgatgaagacct	W61814
18151	ccatcgatgaagacctcccagagga	W61814
18152	gcatgctgaagaccttgccgcctgt	U08188
18153	tgaagaccttgccgcctgtgcacct	U08188
18154	cccggcaggccacggagttctgcgt	U08188
18155	aggccacggagttctgcgtgcagcg	U08188
18156	tgcagcgcatccggctgatcctcac	U08188

SEQ ID NO:	sequence	DBAxnID
60693	tacacacgttacagggacacactaa	W85144
60694	acacgttacagggacacactaatag	W85144
60695	attcattacagtttgatggcatcca	W85144
60696	ttgatggcatccatgtggtgagtgg	W85144
60697	atggcatccatgtggtgagtggatc	W85144
60698	gcatccatgtggtgagtggatctct	W85144
60699	atgcatctccatgaaaaaagggttg	W85144
60700	gttgtaagcggttctcgagatgcca	W85144
60701	ggttctcgagatgccactctcaggg	W85144
60702	gccactctcagggtttgggatattg	W85144
60703	actctcagggtttgggatattgaga	W85144
60704	gatattgagaccggccagtgtttac	W85144
60705	ttacacgtcctgatgggtcacgtag	W85144
60706	cacgtcctgatgggtcacgtagcag	W85144
60707	ggcagcctaacagccttggttgcta	X61385
60708	gccttggttgctaggcacagaacac	X61385
60709	tcttaaggggtcctgccgcctctg	X61385
60710	gcctctgacagccatatctcttgtt	X61385
60711	gacagccatatctcttgttattgct	X61385
60712	tcttgttattgctggctggacctcc	X61385
60713	tgatctcttcagctgcctaccctac	X61385
60714	cttcagctgcctaccctacaaatgc	X61385
60715	tgccaatacttcttggaccaagaat	X61385
60716	tcacacaaaataactctgtggtcaa	X61385
60717	agcttttgcagccaaaacttcttca	X61385
60718	tgcagccaaaacttcttcagctggt	X61385
60719	aggcacagaacacctggcttgctcc	X61385
60720	tcttcagctggtccatcaacagcaa	X61385
60721	aacatgaccagctcccatggaacca	X61385
60722	accagctcccatggaaccagctagg	X61385
60723	tcccatggaaccagctaggggtcct	X61385
60724	ttcaaaggctgcacaactccctgaa	X61385
60725	ggctgcacaactccctgaacctggg	X61385
60726	ccctgaacctggggccatcaattca	X61385
60727	gtagctgtatcatcttaaggggtc	X61385
60728	ggcgctatgccacacacgagaggaa	X04123
60729	gctatgccacacacgagaggaagat	X04123
60730	tttgacctcagaggatgctggcagc	X04123
60731	gacctcagaggatgctggcagcaag	X04123
60732	acaggtcttgggccatctggcctac	X04123
60733	ccatctggcctactgttgcatagaa	X04123
60734	tctggcctactgttgcatagaattc	X04123
60735	tgttgtcattgcagcatcatctaga	X04123
60736	tgtcattgcagcatcatctagagaa	X04123
60737	atgcccacctgactcctgtgtgtct	X04123
60738	gtctgaatctctgtgtattgccaat	X04123
60739	tgaatctctgtgtattgccaataaa	X04123
60740	ctgtcacgatttcacctttggatgg	X04123
60741	tcacgatttcacctttggatgggaa	X04123
60742	tacagaaagccttgagggtgtttct	X04123
60743	aagagatctttgcccatctgggact	X04123
60744	cccatctgggactggactacattga	X04123
60745	ttcttttcggtttagacaagctgtg	X04123
60746	tagacaagctgtgctctgtgttagt	X04123
60747	ggattctttgacctcagaggatgct	X04123
60748	cttgctctcaattttgcgcaagttg	W85510
60749	ttgctctcaattttgcgcaagttga	W85510
60750	acttctcctgggcttggataatgct	W85510
60751	tctcctgggcttggataatgctggc	W85510
60752	aagaccactcttctgaagcagcttg	W85510
60753	gaccactcttctgaagcagcttgca	W85510
60754	accactcttctgaagcagcttgcat	W85510
60755	actcttctgaagcagcttgcatctg	W85510
60756	ctcttctgaagcagcttgcatctga	W85510
60757	tcttctgaagcagcttgcatctgaa	W85510
60758	gtttcaacatcaaaagtgtacaatc	W85510
60759	tgtacaatcacaaggttttaaactg	W85510
60760	tgctctcaattttgcgcaagttgaa	W85510

SEQ ID NO	sequence	DBAxnID
103297	aattgcgctgtgctcctgtgctacg	AA168729
103298	ttgcgctgtgctcctgtgctacggc	AA168729
103299	gggccagacccagcgcatccggtgc	AA168734
103300	ggccagacccagcgcatccggtgca	AA168734
103301	gcgcatccggtgcagggtgcctgca	AA168734
103302	cgcatccggtgcagggtgcctgcaa	AA168734
103303	gcatccggtgcagggtgcctgcaac	AA168734
103304	catccggtgcagggtgcctgcaact	AA168734
103305	atccggtgcagggtgcctgcaactg	AA168734
103306	tgcagggtgcctgcaactggaagaa	AA168734
103307	cagggtgcctgcaactggaagaagg	AA168734
103308	ggtgcctgcaactggaagaaggagt	AA168734
103309	gtgcctgcaactggaagaaggagtt	AA168734
103310	gccagacccagcgcatccggtgcag	AA168734
103311	ccagacccagcgcatccggtgcagg	AA168734
103312	cagacccagcgcatccggtgcaggg	AA168734
103313	agacccagcgcatccggtgcagggt	AA168734
103314	gacccagcgcatccggtgcagggtg	AA168734
103315	acccagcgcatccggtgcagggtgc	AA168734
103316	cccagcgcatccggtgcagggtgcc	AA168734
103317	ccagcgcatccggtgcagggtgcct	AA168734
103318	gatcctggacaggcaccccggcttg	AA168703
103319	atcctggacaggcaccccggcttgg	AA168703
103320	gtacctggagcagctccatcagctc	AA168703
103321	gagcagctccatcagctctacagtg	AA168703
103322	agcagctccatcagctctacagtga	AA168703
103323	gcagctccatcagctctacagtgac	AA168703
103324	cagctccatcagctctacagtgaca	AA168703
103325	gctccatcagctctacagtgacagc	AA168703
103326	ctccatcagctctacagtgacagct	AA168703
103327	tccatcagctctacagtgacagctt	AA168703
103328	ccatcagctctacagtgacagcttc	AA168703
103329	tcagctctacagtgacagcttccca	AA168703
103330	tcctggacaggcaccccggcttggc	AA168703
103331	cctggacaggcaccccggcttggcg	AA168703
103332	tggacaggcaccccggcttggcgct	AA168703
103333	ggcccttcggcctgagggagcctcg	AA168703
103334	ccttcggcctgagggagcctcgccg	AA168703
103335	cttcggcctgagggagcctcgccgc	AA168703
103336	tggcccaatggaatcagctacagca	AA168703
103337	aatcagctacagcagcttgacacac	AA168703
103338	cctaggcgacgagacccagtggcta	AA168704
103339	agaagttcaccatgtctattctcaa	AA168704
103340	tctcttcacctcaaaaggtctcttc	AA168704
103341	cttcacctcaaaaggtctcttcaga	AA168704
103342	cacctcaaaaggtctcttcagagct	AA168704
103343	aggtctcttcagagctgctgtgcca	AA168704
103344	tctcttcagagctgctgtgccagtg	AA168704
103345	gccagtggtgcttcaactggtatct	AA168704
103346	ggtgcttcaactggtatctatgagg	AA168704
103347	tatgaggccctagagctccgggaca	AA168704
103348	gaggccctagagctccgggacaatg	AA168704
103349	gccctagagctccgggacaatgata	AA168704
103350	tcaccatgtctattctcaagatcca	AA168704
103351	actattgcgcctgccctggttagca	AA168704
103352	ccatgtctattctcaagatccatgc	AA168704
103353	ttctcaagatccatgccagggagat	AA168704
103354	tcaagatccatgccagggagatctt	AA168704
103355	agatccatgccagggagatctttga	AA168704
103356	ttgactctcgcgggaatccactgtt	AA168704
103357	actctcgcgggaatccactgttgag	AA168704
103358	atccactgttgaggttgatctcttc	AA168704
103359	gcagtggaaccgactcccagaactc	AA168705
103360	gactcccagaactccggacgtgtgc	AA168705
103361	acggccatgcgcatcctatgcggag	AA168705
103362	cggccatgcgcatcctatgcggagt	AA168705
103363	ggccatgcgcatcctatgcggagtc	AA168705
103364	gcgcatcctatgcggagtcatcagc	AA168705

TABLE 1

SEQ ID NO	sequence	DBAxnID
18157	actaaaagacctcttgctcccatct	U08188
18158	cccatctgcgcgggcttccgttatg	U08188
18159	ggcttccgttatgagtgcgctccga	U08188
18160	cacctgtcactgagacagctggatc	U08188
18161	tcactgagacagctggatctgcact	U08188
18162	tctaccactgccttctgctgctgtg	U08188
18163	actgccttctgctgctgtgaccgac	U08188
18164	tgcaccttgtggcttgcgctctgga	U08188
18165	ttgtggcttgcgctctggaccccat	U08188
18166	accccatgctagatgactcggtcat	U08188
18167	tgctagatgactcggtcatgttcgc	U08188
18168	tgggccagccggtgacgctgaaagt	U08188
18169	aagatctgccgcatggcttcctgag	U08188
18170	atggcttcctgagcctggcggcact	U08188
18171	tcctgagcctggcggcactgtgtcg	U08188
18172	gggatgtctcagccttatctcccca	W61817
18173	atgtctcagccttatctccccaaga	W61817
18174	caaatgacctttctcagaagaggaa	W61817
18175	aatctggtgaagtcggagtgaccca	W61817
18176	tcggagtgacccagacctcgcaacc	W61817
18177	gagtgacccagacctcgcaaccggt	W61817
18178	gcagaagccacgaagccaccggaga	W61817
18179	gaagccacgaagccaccggagagta	W61817
18180	acgaagccaccggagagtatcctca	W61817
18181	aagccaccggagagtatcctcagcc	W61817
18182	ggattctgagaccgaggcagtgtat	W61817
18183	ttctgagaccgaggcagtgtatggg	W61817
18184	tctcagccttatctccccaagaact	W61817
18185	tatctccccaagaactggataaggt	W61817
18186	ttgacctccataattaggaagacgg	W61817
18187	tcaaactgtcctccaagtcctcttg	W61817
18188	cctccaagtcctcttgggtgtctgc	W61817
18189	agtcctcttgggtgtctgcaaatga	W61817
18190	cctcttgggtgtctgcaaatgacct	W61817
18191	ctgcaaatgacctttctcagaagag	W61817
18192	ggctttgccccaatatcctggagaa	W61845
18193	ctttgccccaatatcctggagaaca	W61845
18194	aagccattgacaaggctggctacac	W61845
18195	gccattgacaaggctggctacacgg	W61845
18196	ttgacaaggctggctacacggaaaa	W61845
18197	aggctggctacacggaaaagatggt	W61845
18198	gtggctgcctctgagttttaccgcg	W61845
18199	ggctgcctctgagttttaccgcgat	W61845
18200	gcctctgagttttaccgcgatggca	W61845
18201	ctctgagttttaccgcgatggcaaa	W61845
18202	ctgagttttaccgcgatggcaaata	W61845
18203	gagttttaccgcgatggcaaatacg	W61845
18204	ttgccccaatatcctggagaacagc	W61845
18205	gccccaatatcctggagaacagcga	W61845
18206	cccaatatcctggagaacagcgacg	W61845
18207	caatatcctggagaacagcgacgtt	W61845
18208	atatcctggagaacagcgacgtttg	W61845
18209	atcctggagaacagcgacgtttgga	W61845
18210	gagaacagcgacgtttggagctggt	W61845
18211	acagcgacgtttggagctggtgaag	W61845
18212	taactgtgtgctttcatttgctgca	D49382
18213	tgtgctttcatttgctgcaggagga	D49382
18214	agtacccatgcagtcctttgtttgg	D49382
18215	acccatgcagtcctttgtttggctt	D49382
18216	agtattcggtgtgagtcccatgttt	D49382
18217	ttaaggtgctacttgggtcagctga	D49382
18218	aggtgctacttgggtcagctgacat	D49382
18219	tgctacttgggtcagctgacatcta	D49382
18220	aatattggcagtgtggattgtgagg	D49382
18221	ttactgcttttgctaacagatactt	D49382
18222	acagatacttgctctttcactaaga	D49382
18223	atttcacacttcaactttgtatcca	D49382
18224	gctttcatttgctgcaggaggaagg	D49382

SEQ ID NO:	sequence	DBAxnID
60761	ctctcaattttgcgcaagttgaaaa	W85510
60762	tctcaattttgcgcaagttgaaaag	W85510
60763	ctcaattttgcgcaagttgaaaagt	W85510
60764	caattttgcgcaagttgaaaagtgc	W85510
60765	gagaatacttctcctgggcttggat	W85510
60766	atacttctcctgggcttggataatg	W85510
60767	tacttctcctgggcttggataatgc	W85510
60768	tctgggcatccacaatgaagtgtcc	W85321
60769	catccacaatgaagtgtccaagatc	W85321
60770	catcacgcctcaggagatcaatggc	W85321
60771	cacgcctcaggagatcaatggcaaa	W85321
60772	ggaccatgtacggcagctagtgccc	W85321
60773	tgtacggcagctagtgccccggagg	W85321
60774	gaccaggctctcacagaggaacatg	W85321
60775	caggctctcacagaggaacatgcaa	W85321
60776	ctacgcaaacagtttggcgcacaag	W85321
60777	tttggcgcacaagccaatgtcattg	W85321
60778	ggcgcacaagccaatgtcattgggc	W85321
60779	gcacaagccaatgtcattgggccct	W85321
60780	agtgtccaagatcgtccagacctat	W85321
60781	gccaatgtcattgggccctggatcc	W85321
60782	gtccaagatcgtccagacctatcat	W85321
60783	caagatcgtccagacctatcatgtc	W85321
60784	cgtccagacctatcatgtcaacatg	W85321
60785	ccagacctatcatgtcaacatggca	W85321
60786	tcatgtcaacatggcaggcaccaac	W85321
60787	ctatacaaccatcacgcctcaggag	W85321
60788	tacaaccatcacgcctcaggagatc	W85321
60789	accccaagacactcagacggaatgt	X73580
60790	agacactcagacggaatgttcacca	X73580
60791	cctcctggaccaaggtctgctgttg	X73580
60792	cctggaccaaggtctgctgttgatc	X73580
60793	ccaaggtctgctgttgatcgttcag	X73580
60794	tctgctgttgatcgttcagagtgga	X73580
60795	gctgttgatcgttcagagtggactg	X73580
60796	actgaaacaaccaggccacccagat	X73580
60797	aagagtctctaggaccctggctgga	X73580
60798	agtctctaggaccctggctggagta	X73580
60799	ctctaggaccctggctggagtaggg	X73580
60800	taggaccctggctggagtagggatt	X73580
60801	atcccagagaacagcctggcccggt	X73580
60802	gaggaccagctctgcttgctgtggt	X73580
60803	tcgaacactcagaccctacaggact	X73580
60804	actcagaccctacaggactggcttc	X73580
60805	cagaccctacaggactggcttctgc	X73580
60806	ctacaggactggcttctgcccaggc	X73580
60807	aggctgtccctggatgggtccctgt	X73580
60808	tctctctggctgcctcctggaccaa	X73580
60809	agccccagcgcatctgctgctgatc	X55663
60810	tgagctcagtggctgctttgccggc	X55663
60811	cagccatgtataccaggctctgtgc	X55663
60812	tgtataccaggctctgtgcccaggc	X55663
60813	tgctagctgatgctagcagaaagcc	X55663
60814	gtctcttccatgccctttggctttt	X55663
60815	tccatgccctttggcttttacataa	X55663
60816	tacataaacctgggcctggagtgtt	X55663
60817	gagtgttgtctaccactgagttcta	X55663
60818	agcaggaacccacctggatacgtag	X55663
60819	gtaatcctctgttttggaaacatct	X55663
60820	caaacttgttcttagtagtatgctt	X55663
60821	cagtggctgctttgccggctgcaca	X55663
60822	ctgctttgccggctgcacagatggt	X55663
60823	ctgcacagatggtctctcagagctg	X55663
60824	agatggtctctcagagctggtgact	X55663
60825	ttgaagcactcattttgctcatttc	X55663
60826	cactcattttgctcatttcttcaag	X55663
60827	tcatttcttcaagggtttgagtgcc	X55663
60828	gagtgccagccatgtataccaggct	X55663

SEQ ID NO	sequence	DBAxnID
103365	cgcatcctatgcggagtcatcagcg	AA168705
103366	gcatcctatgcggagtcatcagcgc	AA168705
103367	catcctatgcggagtcatcagcgcc	AA168705
103368	atcctatgcggagtcatcagcgcca	AA168705
103369	tcctatgcggagtcatcagcgccat	AA168705
103370	cctatgcggagtcatcagcgccatc	AA168705
103371	cagtgagtcgcagccatgttcctgg	AA168705
103372	agtgagtcgcagccatgttcctggt	AA168705
103373	gccatgttcctggttaactcgttct	AA168705
103374	catgttcctggttaactcgttcttg	AA168705
103375	aaatgtgcttggaggcctgatcagc	AA168705
103376	ggaacggccatgcgcatcctatgcg	AA168705
103377	gaacggccatgcgcatcctatgcgg	AA168705
103378	aacggccatgcgcatcctatgcgga	AA168705
103379	tcatccttatggtttcacacgggtg	V00719
103380	catccttatggtttcacacgggtga	V00719
103381	gcattaacccagacagcacttgtgg	V00719
103382	cattaacccagacagcacttgtggc	V00719
103383	attaacccagacagcacttgtggca	V00719
103384	ttaacccagacagcacttgtggcaa	V00719
103385	taacccagacagcacttgtggcaat	V00719
103386	aacccagacagcacttgtggcaatg	V00719
103387	acccagacagcacttgtggcaatga	V00719
103388	cccagacagcacttgtggcaatgac	V00719
103389	tgcaatccatgcagagtcaaaaata	V00719
103390	gcaatccatgcagagtcaaaaatat	V00719
103391	tccttatggtttcacacgggtgatg	V00719
103392	ccttatggtttcacacgggtgatgt	V00719
103393	ttatggtttcacacgggtgatgtca	V00719
103394	atggtttcacacgggtgatgtcaag	V00719
103395	tggtttcacacgggtgatgtcaagt	V00719
103396	ttcacacgggtgatgtcaagttact	V00719
103397	tcaagttactattggccaagaaatt	V00719
103398	gtgagcattaacccagacagcactt	V00719
103399	acgagccctgtctcctgaagaggct	AA168758
103400	agccctgtctcctgaagaggctgcc	AA168758
103401	tggccaacagccccgtgtctatcat	AA168758
103402	aagtctatggccgcggctgtcagaa	AA168758
103403	tctatggccgcggctgtcagaaggc	AA168758
103404	aggccggactttcgagatgtctgac	AA168758
103405	ccggactttcgagatgtctgacttc	AA168758
103406	gatgtctgacttcatcgtggacaca	AA168758
103407	gtctgacttcatcgtggacacaagg	AA168758
103408	tgacttcatcgtggacacaagggat	AA168758
103409	cttcatcgtggacacaagggatgca	AA168758
103410	ttatggtggcatatccttggcggtg	AA168758
103411	cctgtctcctgaagaggctgcccaa	AA168758
103412	gtctcctgaagaggctgcccaacaa	AA168758
103413	ggctgcccaacaaccacattggcat	AA168758
103414	acaaccacattggcatctccttcat	AA168758
103415	gcgaacatctggtcagcatcaagaa	AA168758
103416	atggcaaccatgtggccaacagccc	AA168758
103417	gcaaccatgtggccaacagccccgt	AA168758
103418	atgtggccaacagccccgtgtctat	AA168758
103419	tttggtttcacaagcgaagtggccg	AA168759
103420	ttggtttcacaagcgaagtggccga	AA168759
103421	agcaatccacgaaattgtggactca	AA168759
103422	gcaatccacgaaattgtggactcaa	AA168759
103423	attacccgggatggatgtggacctg	AA168759
103424	cctatctgttgcatataagaatgtt	AA168759
103425	gctaaaagagcctcctggagaatta	AA168759
103426	ctaaaagagcctcctggagaattat	AA168759
103427	aattatcagccgtattgaacagaaa	AA168759
103428	attatcagccgtattgaacagaaag	AA168759
103429	ttatcagccgtattgaacagaaagg	AA168759
103430	tatcagccgtattgaacagaaagga	AA168759
103431	tggtttcacaagcgaagtggccgaa	AA168759
103432	tttcacaagcgaagtggccgaacaa	AA168759

TABLE 1

SEQ ID NO	sequence	DBAxnID
18225	ttcatttgctgcaggaggaaggact	D49382
18226	taattcagtccaaaactcagtagta	D49382
18227	ttcagtccaaaactcagtagtacta	D49382
18228	catttgctcgctttgctcttcacat	D49382
18229	gctttgctcttcacattgcatcact	D49382
18230	agttcctatcaagaaaagcgtcaat	D49382
18231	tagagtacccatgcagtcctttgtt	D49382
18232	agagccacaggtcccatgggcatgc	W61860
18233	agccacaggtcccatgggcatgcgc	W61860
18234	tgattcgcctggtgaatggctctgg	W61860
18235	attcgcctggtgaatggctctggcc	W61860
18236	tcgcctggtgaatggctctggccca	W61860
18237	gaggtattccacgatcgtcgctggg	W61860
18238	ttccacgatcgtcgctggggcacag	W61860
18239	ccacgatcgtcgctggggcacagtg	W61860
18240	tgtgccgcatgctgggcttccacag	W61860
18241	tgcaccggacagctcgttttgggca	W61860
18242	ggacagctcgttttgggcaaggaca	W61860
18243	ttttgggcaaggacagggaggatct	W61860
18244	aggtcccatgggcatgcgcggattc	W61860
18245	gtcccatgggcatgcgcggattcaa	W61860
18246	cccatgggcatgcgcggattcaaag	W61860
18247	tgggcatgcgcggattcaaaggtga	W61860
18248	gatttcacaatgattcgcctggtga	W61860
18249	tttcacaatgattcgcctggtgaat	W61860
18250	tcacaatgattcgcctggtgaatgg	W61860
18251	acaatgattcgcctggtgaatggct	W61860
18252	gtgcctctggctgactgcgtgctga	M88694
18253	gatatagatacctaccgggcagcct	M88694
18254	aagggtcccagtgcctgaggccact	M88694
18255	tgaggccactggcagcgaatcgcct	M88694
18256	aaagccttgctccacagctttctaa	M88694
18257	ttgctccacagctttctaacacgga	M88694
18258	cggaccatgttgcttctatctaata	M88694
18259	accatgttgcttctatctaatacct	M88694
18260	ttgcttctatctaatacctggtcac	M88694
18261	ctatctaatacctggtcacagtcac	M88694
18262	aatacctggtcacagtcacaaggga	M88694
18263	ctattttcagcaccaacatccatcc	M88694
18264	ctgctgaaaccaggagggcacctgg	M88694
18265	gctattcaagatgctggctgtcagg	M88694
18266	caagatgctggctgtcaggtgctga	M88694
18267	gctggctgtcaggtgctgaagtgca	M88694
18268	gtctccctcagctactcggaggctt	M88694
18269	tactcggaggcttactgctcccacg	M88694
18270	tactgctcccacgacggtttgtgct	M88694
18271	tgctcccacgacggtttgtgctttg	M88694
18272	tccttcctggccactgacaaaacct	L38248
18273	actgacaaaacctgggagcacacct	L38248
18274	ccaacccaatctgtctcagacacaa	L38248
18275	caatctgtctcagacacaaagcttg	L38248
18276	gacacaaagcttgaccacgtgaaag	L38248
18277	atcattcctgaaaacaggatcttgg	L38248
18278	aacaggatcttggctacctgttggt	L38248
18279	atcttggctacctgttggttctgta	L38248
18280	atttattccctggtgatccgctctt	L38248
18281	tccctggtgatccgctctttccaag	L38248
18282	gtgatccgctctttccaagacttca	L38248
18283	cgctctttccaagacttcaataaat	L38248
18284	gtctccagatcattctgttctggaa	L38248
18285	ttctgttctggaatgccgtgtgttg	L38248
18286	cgtagcctctaaatgcgagaacaat	L38248
18287	atgcgagaacaattccccttcggag	L38248
18288	gaacaattccccttcggaggcacag	L38248
18289	ttgtgcaccgtgaacagacaccttt	L38248
18290	aacagacacctttgccaaacagact	L38248
18291	acagactgtggtcccgagcagggtc	L38248
18292	ctcggccaccgcagaacttgggctc	AA111277
60829	tatgacttcttccgtgtagactcag	X73959
60830	actgcaggcgactctatgagctacc	X73959
60831	tacgccaacctcaatgggctctatg	X73959
60832	aacctcaatgggctctatgggagca	X73959
60833	acagtggatcaccagggagtgagct	X73959
60834	gatcaccagggagtgagctggtacc	X73959
60835	ttctctgtgcccttcacggaaatga	X73959
60836	gtgcccttcacggaaatgaagctgc	X73959
60837	gaaatgaagctgcgacccagaaact	X73959
60838	actgccgagcactgaggggttgtgc	X73959
60839	gaagagccagcatgccacaccaagg	X73959
60840	ccagcatgccacaccaaggaggcct	X73959
60841	ggcgactctatgagctaccacagtg	X73959
60842	tctatgagctaccacagtggcagtg	X73959
60843	gtcttttctgcccgtgatcgagacc	X73959
60844	tctgcccgtgatcgagaccccaaca	X73959
60845	cgagaccccaacaacttgctcatct	X73959
60846	cccaacaacttgctcatctcttgcg	X73959
60847	gctgtctcttatcgtggggcttggt	X73959
60848	tgtcactacgccaacctcaatgggc	X73959
60849	agccttgctgagtcactttatacag	X84693
60850	tcactttatacagccagtttatatc	X84693
60851	tcctctgcagataaacttggaccat	X84693
60852	taaatcactcagtttgaattgggca	X84693
60853	atcaatggcaagtcggctttgtaag	X84693
60854	tttacttgaagctcggacataccac	X84693
60855	tatgtctggaccctatcaagaagca	X84693
60856	tggaccctatcaagaagcaaaggcg	X84693
60857	gttactgaaggcctacttgcagcag	X84693
60858	ctacttgcagcagcatggctatggc	X84693
60859	gcatggctatggctcctggattgtg	X84693
60860	gattgtgaaatctccctgtatagag	X84693
60861	tatacagccagtttatatcagcagt	X84693
60862	ttatatcagcagtatacttgttggt	X84693
60863	tatacttgttggtgatgggaattgc	X84693
60864	cgcaataaaccagcgtgttgatgac	X84693
60865	aaaccagcgtgttgatgacgcactc	X84693
60866	cacatcaaaactgcccatgttttac	X84693
60867	gttttacttggtcaacagacctcat	X84693
60868	acctcatattagcttagtgcccacc	X84693
60869	ggtcgttgcttcatcaggaagagct	W85018
60870	cgttgcttcatcaggaagagctgaa	W85018
60871	ttctcaagcagctgtgctctccgag	W85018
60872	tcaagcagctgtgctctccgagaac	W85018
60873	ctccgagaactgtgtgcgagatctg	W85018
60874	gagtgactctgtccccgacacgaaa	W85018
60875	gcccggcagcaaacctgaattcggc	W85018
60876	cggcagcaaacctgaattcggcatt	W85018
60877	caaacctgaattcggcatttcttct	W85018
60878	tgaattcggcatttcttctttaaat	W85018
60879	cggcatttcttctttaaatggactg	W85018
60880	catttcttctttaaatggactgatg	W85018
60881	tgcttcatcaggaagagctgaagtt	W85018
60882	ttcttctttaaatggactgatgtat	W85018
60883	aataccctgctgggcatagttcagc	W85018
60884	accctgctgggcatagttcagccag	W85018
60885	accacaggagttgggccagagagag	W85018
60886	aaagcttcaatgttctcaagcagct	W85018
60887	gcttcaatgttctcaagcagctgtg	W85018
60888	tcaatgttctcaagcagctgtgctc	W85018
60889	atgttctcaagcagctgtgctctcc	W85018
60890	gacttgcactacaaattcaattttt	X57413
60891	tatatactatcttccctgcctgtat	X57413
60892	tttaagaatctcaactcagagtctt	X57413
60893	tatttatggactctctttgccgttc	X57413
60894	ttatggactctctttgccgttcaaa	X57413
60895	ctctttgccgttcaaaagcagacag	X57413
60896	aaagtccaggccagcactcgtcatt	X57413
103433	ttcacaagcgaagtggccgaacaag	AA168759
103434	agtttgagcaatccacgaaattgtg	AA168759
103435	gtttgagcaatccacgaaattgtgg	AA168759
103436	tttgagcaatccacgaaattgtgga	AA168759
103437	ttgagcaatccacgaaattgtggac	AA168759
103438	tgagcaatccacgaaattgtggact	AA168759
103439	ggaatcatggcggctgcctgttcgt	AA168882
103440	atcatggcggctgcctgttcgtgct	AA168882
103441	caagatactcctcacctgctccttg	AA168882
103442	cctcacctgctccttgaatgacagc	AA168882
103443	cacctgctccttgaatgacagcgcc	AA168882
103444	ctgctccttgaatgacagcgccaca	AA168882
103445	ctccttgaatgacagcgccacagag	AA168882
103446	cttgaatgacagcgccacagaggtc	AA168882
103447	gaatgacagcgccacagaggtcaca	AA168882
103448	cagcgccacagaggtcacagggcac	AA168882
103449	cgccacagaggtcacagggcaccgc	AA168882
103450	agaggtcacagggcaccgctggctg	AA168882
103451	gctgcctgttcgtgctgctgggatt	AA168882
103452	gcctgttcgtgctgctgggattcgc	AA168882
103453	tgttcgtgctgctgggattcgcgct	AA168882
103454	tcgtgctgctgggattcgcgctgct	AA168882
103455	ggctgccggcacagtcttcactacc	AA168882
103456	tgccggcacagtcttcactaccgta	AA168882
103457	cacagtcttcactaccgtagaagac	AA168882
103458	agaccttggctccaagatactcctc	AA168882
103459	aactagactatagccggccggagag	AA168936
103460	actagactatagccggccggagagg	AA168936
103461	acagtctttcgccagatgagaccgg	AA168936
103462	agtctttcgccagatgagaccggtg	AA168936
103463	gtctttcgccagatgagaccggtgt	AA168936
103464	ctttcgccagatgagaccggtgtcc	AA168936
103465	tttcgccagatgagaccggtgtcca	AA168936
103466	cagatgagaccggtgtccagggtac	AA168936
103467	gatgagaccggtgtccagggtactg	AA168936
103468	atgagaccggtgtccagggtactgg	AA168936
103469	tccagggtactggctcctcatctca	AA168936
103470	ggctcctcatctcactcgggcttat	AA168936
103471	tgagcgcgctacacaccctgcgcgg	AA168936
103472	agcgcgctacacaccctgcgcggaa	AA168936
103473	tacacaccctgcgcggaaatgcttc	AA168936
103474	gaaatgcttcggttacccacagtct	AA168936
103475	gttacccacagtctttcgccagatg	AA168936
103476	ttacccacagtctttcgccagatga	AA168936
103477	acccacagtctttcgccagatgaga	AA168936
103478	cacagtctttcgccagatgagaccg	AA168936
103479	cactacttcaagaagcgccttggac	AA168787
103480	tacttcaagaagcgccttggactag	AA168787
103481	ctgctccctttgctgttaggaaatc	AA168787
103482	aatctaatcagcagtgtgaagctct	AA168787
103483	gtgaagctctttaacacgctgcgga	AA168787
103484	aagctctttaacacgctgcggatcc	AA168787
103485	ctctttaacacgctgcggatcctct	AA168787
103486	tttaacacgctgcggatcctctgca	AA168787
103487	acgctgcggatcctctgcatcttca	AA168787
103488	cggatcctctgcatcttcatgtttg	AA168787
103489	atcctctgcatcttcatgtttgttc	AA168787
103490	gttctctttctggctggctttacct	AA168787
103491	ttcaagaagcgccttggactagtca	AA168787
103492	cgacctcttgttcccagcaccaaag	AA168787
103493	ggactagtcaacggcatcgtcacgg	AA168787
103494	ctagtcaacggcatcgtcacggccg	AA168787
103495	atcgtcacggccggcagcagcgtct	AA168787
103496	ggcagcagcgtcttcacaatcctgc	AA168787
103497	agcagcgtcttcacaatcctgctcc	AA168787
103498	agcgtcttcacaatcctgctccctt	AA168787
103499	atcctgctcccttttgctgttaggaa	AA168787
103500	aacaggccatctccttcgccaaaga	AA168807

TABLE 1

SEQ ID NO	sequence	DBAxnID
18293	cggccaccgcagaacttgggctcga	AA111277
18294	cagctccagagccggtttagtctcc	AA111277
18295	cggtttagtctccactgccagctgc	AA111277
18296	gtttagtctccactgccagctgcca	AA111277
18297	ttagtctccactgccagctgccatg	AA111277
18298	cactgccagctgccatgggaagcag	AA111277
18299	ctgccagctgccatgggaagcagaa	AA111277
18300	gccagctgccatgggaagcagaaca	AA111277
18301	cagctgccatgggaagcagaacagc	AA111277
18302	acagcaagctgcgtcctgaggtgct	AA111277
18303	aggtgctgcaggacctgcgggaaca	AA111277
18304	gccaccgcagaacttgggctcgaga	AA111277
18305	gtgctgcaggacctgcgggaacaca	AA111277
18306	caccgcagaacttgggctcgagaag	AA111277
18307	ccgcagaacttgggctcgagaagcc	AA111277
18308	agaacttgggctcgagaagccagcg	AA111277
18309	aacttgggctcgagaagccagcgga	AA111277
18310	cgcgtccagctccagagccggttta	AA111277
18311	cgtccagctccagagccggtttagt	AA111277
18312	tccagctccagagccggtttagtct	AA111277
18313	tggtacctcagctttgagacttttt	L07049
18314	tttcccagggaccagtgcaggcaca	L07049
18315	tctgtgccatctgtgagggaaggac	L07049
18316	gtgccatctgtgagggaaggacctg	L07049
18317	ctctcctagggacctttcatctggg	L07049
18318	ttcatctgggtcaaccaacctagca	L07049
18319	atctgggtcaaccaacctagcaggt	L07049
18320	tgggtcaaccaacctagcaggtgtc	L07049
18321	aggtgtcatttctcggctggactgg	L07049
18322	tgtcatttctcggctggactgggta	L07049
18323	aggcaccagtgttccgtgcacctat	L07049
18324	caccagtgttccgtgcacctattta	L07049
18325	ttgttgtttcctgactttgcccaag	L07049
18326	cctgactttgcccaagaacagtaca	L07049
18327	gactttgcccaagaacagtacaatg	L07049
18328	tttgcccaagaacagtacaatggtt	L07049
18329	tggttacttccgcctccagggagagc	L07049
18330	ggcggtcacagagcttggaggactc	L07049
18331	ttgaggtctgtgccatctgtgaggg	L07049
18332	aggtctgtgccatctgtgagggaag	L07049
18333	gagaacctctcagaaatagaccaca	U04294
18334	gaccacaccaggcttctttaccaag	U04294
18335	atggtccacagcctgctcttgtgga	U04294
18336	tctggagctgcaccatcttataggc	U04294
18337	gctgcaccatcttataggcctcatg	U04294
18338	ccatcttataggcctcatgacatat	U04294
18339	tgtctatggctttcctcagggtgta	U04294
18340	tggctttcctcagggtgtagggcac	U04294
18341	ggcaggcactcagcattgttttcct	U04294
18342	cactcagcattgttttcctaacaaa	U04294
18343	gcattgttttcctaacaaagcagat	U04294
18344	ttttcctaacaaagcagatacacat	U04294
18345	caggcacagggacttctgggtattc	U04294
18346	ctgacatcaccacctgttttttctac	U04294
18347	tttctactttcatcatttgtaacaa	U04294
18348	ctttcatcatttgtaacaaactcgt	U04294
18349	tcatttgtaacaaactcgtgataag	U04294
18350	ctttctgctctgacagtagaggtgg	U04294
18351	caggtttccttgcccagaagaggtg	U04294
18352	tccttgcccagaagaggtgaggcaa	U04294
18353	aagcctgaactcaccgaagatcaaa	D16301
18354	cctgaactcaccgaagatcaaaagc	D16301
18355	tcattcaaaaacctcaagcgtgtgg	D16301
18356	ttcaaaaacctcaagcgtgtggcca	D16301
18357	ctcaagcgtgtggccaatgagctgg	D16301
18358	gaaagcctcacagacgaggagctgc	D16301
18359	agcctcacagacgaggagctgcagg	D16301
18360	aacctttattaagtgactggctgag	D16301

SEQ ID NO:	sequence	DBAxnID
60897	agcactcgtcattttattcataatt	X57413
60898	actcgtcattttattcataatttca	X57413
60899	cataatttcatccattatttccctg	X57413
60900	ttcatccattatttccctgatttca	X57413
60901	cattatttccctgatttcattgaaa	X57413
60902	atactatcttccctgcctgtatttt	X57413
60903	tgacatgagctacctgggtccattc	X57413
60904	catgagctacctgggtccattcctc	X57413
60905	aggtttgagctccacagtgtttcag	X57413
60906	gagctccacagtgtttcagcctttt	X57413
60907	gccttttctgcgtcagtgtgagtca	X57413
60908	ttttctgcgtcagtgtgagtcatgt	X57413
60909	tctgcgtcagtgtgagtcatgtggc	X57413
60910	gaaatgacagctgcttgctacccca	AA169953
60911	atgacagctgcttgctaccccagga	AA169953
60912	gtgaatcctcagtgggccttggaca	AA169953
60913	tgggccttggacagcaccagaccaa	AA169953
60914	ttggacagcaccagaccaagctcta	AA169953
60915	tcctcaacactaccaagctcagtga	AA169953
60916	tcaacactaccaagctcagtgaaga	AA169953
60917	ctaccaagctcagtgaagagctgtt	AA169953
60918	aagagctgttctaccagatactcat	AA169953
60919	agctgttctaccagatactcattta	AA169953
60920	tctaccagatactcatttatgattt	AA169953
60921	ttgccaactttggtgttctgaggtt	AA169953
60922	atcattaacctcaccagcgtcttga	AA169953
60923	tatcggaaccagcgccactcttcga	AA169953
60924	accagcgtcttgagtctccaggaag	AA169953
60925	agcgtcttgagtctccaggaagaga	AA169953
60926	attagtgagcggtgccatgagactc	AA169953
60927	tgccatgagactctccgggagatgc	AA169953
60928	catgagactctccgggagatgctcc	AA169953
60929	atgctccgtaaccattcctttgtgg	AA169953
60930	tgtgtgaatcctcagtgggccttgg	AA169953
60931	acaatatctcgtaattcagagggat	X14432
60932	agccctggccactggcctgtacaca	X14432
60933	agctttgctttctggatacaataaa	X14432
60934	aaggtacacacctctagatagtgcc	X14432
60935	cacacctctagatagtgccacacag	X14432
60936	tctagatagtgccacacagagtcca	X14432
60937	cacacagagtccagaagggttttgt	X14432
60938	gtaagctcagcatatttgtacatat	X14432
60939	agtttcgctagaacacaagcaaagc	X14432
60940	gcaaagcctttgcttatgacgtcac	X14432
60941	cctttgcttatgacgtcacatgtac	X14432
60942	cttatgacgtcacatgtacaaaata	X14432
60943	ggccactggcctgtacacaagaatt	X14432
60944	tgggacctcgcttgggatctggcta	X14432
60945	ctcgcttgggatctggctagaattg	X14432
60946	cccagtgtgccagttcataagaatc	X14432
60947	tttgacaacatccacagggacattg	X14432
60948	aacatccacagggacattgtccagt	X14432
60949	gacattgtccagtcatttcaggaca	X14432
60950	ctgcatagctttgctttctggatac	X14432
60951	ccaaaactacaacatgaattggcaa	X56135
60952	gggtgaccaaaccagccttcagagc	X56135
60953	tcctacttcagactttacttgtggt	X56135
60954	tacttcagactttacttgtggtgtg	X56135
60955	ttcagactttacttgtggtgtgacc	X56135
60956	aatcttattccgagcattccagtaa	X56135
60957	cttattccgagcattccagtaactt	X56135
60958	attccgagcattccagtaacttttg	X56135
60959	ccgagcattccagtaacttttgtgt	X56135
60960	agcattccagtaacttttgtgtatg	X56135
60961	gtacctagctgtactataagtagtt	X56135
60962	tgaaacaatgtccaacaataaaccg	X56135
60963	tgaccaaaccagccttcagagcgtt	X56135
60964	aaccagccttcagagcgttttctgt	X56135

SEQ ID NO	sequence	DBAxnID
103501	gccatctccaagacggccgtggctc	AA168807
103502	gcatcgtggactgcattgtccgcat	AA168807
103503	atcgtggactgcattgtccgcatcc	AA168807
103504	tggactgcattgtccgcatcccaag	AA168807
103505	gactgcattgtccgcatcccaagga	AA168807
103506	ctgcattgtccgcatcccaaggagc	AA168807
103507	gcattgtccgcatcccaaggagcag	AA168807
103508	tgtccgcatcccaaggagcagggcg	AA168807
103509	tccgcatcccaaggagcagggcgtg	AA168807
103510	cgcatcccaaggagcagggcgtgct	AA168807
103511	catcccaaggagcagggcgtgctgt	AA168807
103512	agcaagcagatcgccgccgacaagc	AA168807
103513	caagcagatcgccgccgacaagcag	AA168807
103514	agcagatcgccgccgacaagcagta	AA168807
103515	cagatcgccgccgacaagcagtaca	AA168807
103516	tcgccgccgacaagcagtacaaggg	AA168807
103517	gccgccgacaagcagtacaagggca	AA168807
103518	cgccgacaagcagtacaagggcatc	AA168807
103519	cagtacaagggcatcgtggactgca	AA168807
103520	ctccagcctctggggcgcattccaa	AA168817
103521	tccagcctctggggcgcattccaac	AA168817
103522	ttttcttgccccatacataccttga	AA168817
103523	ttcttgccccatacataccttgagg	AA168817
103524	cttgccccatacataccttgaggcg	AA168817
103525	ttgccccatacataccttgaggcga	AA168817
103526	tgccccatacataccttgaggcgag	AA168817
103527	ccccatacataccttgaggcgagca	AA168817
103528	cccatacataccttgaggcgagcaa	AA168817
103529	ccatacataccttgaggcgagcaaa	AA168817
103530	atacataccttgaggcgagcaaaaa	AA168817
103531	tacataccttgaggcgagcaaaaaa	AA168817
103532	agcctctggggcgcattccaacctt	AA168817
103533	gcctctggggcgcattccaaccttc	AA168817
103534	accttccagcctgcgacctgcggag	AA168817
103535	cttccagcctgcgacctgcggagaa	AA168817
103536	tccagcctgcgacctgcggagaaaa	AA168817
103537	ccagcctgcgacctgcggagaaaaa	AA168817
103538	ttacttattttcttgccccatacat	AA168817
103539	tacttattttcttgccccatacata	AA168817
103540	aaggtttacaggcttgcaggctaca	AA168818
103541	gtttacaggcttgcaggctacacac	AA168818
103542	ttaagatatcacttcctggaggcca	AA168818
103543	agatatcacttcctggaggccagaa	AA168818
103544	tatcacttcctggaggccagaaaat	AA168818
103545	cacttcctggaggccagaaaattga	AA168818
103546	aaattgatgctgtggcatggaacac	AA168818
103547	aactagcccggcagatcagttcaac	AA168818
103548	tagcccggcagatcagttcaacact	AA168818
103549	agatcagttcaacactggcagatac	AA168818
103550	tcagttcaacactggcagatactgc	AA168818
103551	cactggcagatactgcagtggctgc	AA168818
103552	tacaggcttgcaggctacacacggc	AA168818
103553	cttgcaggctacacacggcagttgt	AA168818
103554	ggctacacacggcagttgtgtcgac	AA168818
103555	tacacacggcagttgtgtcgacccc	AA168818
103556	ctccacgctggttggcagagcggct	AA168818
103557	cagagcggcttggccttttgagga	AA168818
103558	aggagctgtgggctgctcaggtaaa	AA168818
103559	tgtgggctgctcaggtaaagagatt	AA168818
103560	ccgagaaatgctccagcagagcaaa	AA168854
103561	gaaatgctccagcagagcaaaatct	AA168854
103562	ggcattctctaaaaatctcaagctt	AA168854
103563	cattctctaaaaatctcaagcttgg	AA168854
103564	attctctaaaaatctcaagcttgga	AA168854
103565	tctaaaaatctcaagcttggaatcc	AA168854
103566	ctaaaaatctcaagcttggaatcca	AA168854
103567	aaatctcaagcttggaatccacgaa	AA168854
103568	aatctcaagcttggaatccacgaag	AA168854

TABLE 1

SEQ ID NO	sequence	DBAxnID
18361	ccctgcttctgcttttgtgaaagta	D16301
18362	tgcctcctttgtcttggttggcttc	D16301
18363	ggttggcttctaagcctctagatca	D16301
18364	tggcttctaagcctctagatcaatt	D16301
18365	gaactcaccgaagatcaaaagcaag	D16301
18366	gacctcttcgattctgatgggagcg	D16301
18367	gcacttggctttgaacccaggaagg	D16301
18368	aagatcagcttcaatgacttcttgg	D16301
18369	ttcaatgacttcttggctgtgatga	D16301
18370	aatgacttcttggctgtgatgactc	D16301
18371	gacttcttggctgtgatgactcaga	D16301
18372	aaggctttcaggttgtttgatgacg	D16301
18373	tcttctaaactcatcgggtttgtag	U20264
18374	aaggtcttcagaactgagtgtcaat	U20264
18375	cgactgccatctaaatcattgaaat	U20264
18376	actgccatctaaatcattgaaatat	U20264
18377	aaggcagcctaagtgccatttgaag	U20264
18378	cagcctaagtgccatttgaagtcag	U20264
18379	tttgaagtcagaaccacaggaatat	U20264
18380	cagaaccacaggaatatccatacga	U20264
18381	catacgagtgacagccattggttga	U20264
18382	cgagtgacagccattggttgagaag	U20264
18383	agtgacagccattggttgagaagag	U20264
18384	tgacagccattggttgagaagagaa	U20264
18385	gagtgacctggactacaggattgat	U20264
18386	gaaggcatcttccacttatagtggt	U20264
18387	atcttccacttatagtggtgcattc	U20264
18388	tccacttatagtggtgcattcccac	U20264
18389	agcaaactgctgtagactgaggaac	U20264
18390	gaaagagaaacaccctcgactgcca	U20264
18391	caccctcgactgccatctaaatcat	U20264
18392	ctcgactgccatctaaatcattgaa	U20264
18393	tttcagctcagccttgagtccattg	L17069
18394	ctcagccttgagtccattgccaaaa	L17069
18395	actttgcgctgggtcattcccaaga	L17069
18396	gctttgctgctagaacctgttgtgg	L17069
18397	gaacctgttgtggctgcgtttcctg	L17069
18398	agtgacaactgtgtaaccagaatag	L17069
18399	gtaaccagaatagctgcatggcgct	L17069
18400	tggcgctgacccttggtcggaact	L17069
18401	cagtgctgcccatgtccagcacaac	L17069
18402	tcaggacccagctcacctctgtcaa	L17069
18403	ggccaatccaataagcaccatgcag	L17069
18404	tccaataagcaccatgcagcaacct	L17069
18405	cttgagtccattgccaaaattcagc	L17069
18406	agcaccatgcagcaaccttgattta	L17069
18407	attcagcatacctgccagcaacttg	L17069
18408	catacctgccagcaacttgggggat	L17069
18409	tgccagcaacttgggggataagcca	L17069
18410	agagtatccccacaagcgggagaga	L17069
18411	tccccacaagcgggagagaaggcaa	L17069
18412	ctgtctccaaaacacatctgctttg	L17069
18413	agaacctccgcacaaaagtgcaggt	L17069
18414	gtcctgtaaggagctgcaggaactg	AA062535
18415	taaatggtgcctgctgaccatcatc	AA062535
18416	ggacgacctgcgcacgaagttcttg	AA062535
18417	cgacctgcgcacgaagttcttggtg	AA062535
18418	tgacgtgcgtgtgctgcacctggct	AA062535
18419	gctgcacctggctcacaaggatctc	AA062535
18420	gcacctggctcacaaggatctcaca	AA062535
18421	ggctcacaaggatctcacagtgctc	AA062535
18422	tcacaaggatctcacagtgctctgc	AA062535
18423	caaggatctcacagtgctctgccat	AA062535
18424	tctcacagtgctctgccatttggaa	AA062535
18425	cacagtgctctgccatttggaacaa	AA062535
18426	atggtgcctgctgaccatcatcctc	AA062535
18427	ccatttggaacaactgctcttggtc	AA062535
18428	gtgcctgctgaccatcatcctcctg	AA062535

SEQ ID NO:	sequence	DBAxnID
60965	cagccttcagagcgttttctgtcct	X56135
60966	ccttcagagcgttttctgtcctact	X56135
60967	tcagagcgttttctgtcctacttca	X56135
60968	gagcgttttctgtcctacttcagac	X56135
60969	tttctgtcctacttcagactttact	X56135
60970	ctgtcctacttcagactttacttgt	X56135
60971	tgtcccccagaggacaaaatagagg	AA058027
60972	tccccccagaggacaaaatagaggag	AA058027
60973	ctcaaacctaattaggcaccagaga	AA058027
60974	caaacctaattaggcaccagagaat	AA058027
60975	cctaattaggcaccagagaatacat	AA058027
60976	taattaggcaccagagaatacatgc	AA058027
60977	ctttggtggacacccacattttctg	AA058027
60978	ggtggacacccacattttctgtcac	AA058027
60979	tggacacccacattttctgtcactg	AA058027
60980	gacacccacattttctgtcactgca	AA058027
60981	cacccacattttctgtcactgcaca	AA058027
60982	cccacattttctgtcactgcacaga	AA058027
60983	gaacagcccaagaaactccatttgt	AA058027
60984	acagcccaagaaactccatttgtgt	AA058027
60985	cccaagaaactccatttgtgtgcct	AA058027
60986	caagaaactccatttgtgtgccttg	AA058027
60987	aaactccatttgtgtgccttgtgtg	AA058027
60988	tttgtgtgccttgtgtggcaagaac	AA058027
60989	tgtgtgccttgtgtggcaagaactt	AA058027
60990	tgtgccttgtgtggcaagaactttt	AA058027
60991	tgtgctgagctctacgagaagctgc	X80764
60992	tacgagaagctgcctcaaggctatc	X80764
60993	tacgtgaacatgtcgctgtttgaga	X80764
60994	aacatgtcgctgtttgagaacttca	X80764
60995	tttgagaacttcacctatgcgggca	X80764
60996	aacttcacctatgcgggcatcgatg	X80764
60997	acctatgcgggcatcgatgccacag	X80764
60998	gctctgctggccggagcaaattgct	X80764
60999	aattgcttccacctgtgactttgga	X80764
61000	tctgacccaagctgtctcaagaaag	X80764
61001	ccaagctgtctcaagaaagtcttta	X80764
61002	ttcttgccagctgttcccatagcta	X80764
61003	aagctgcctcaaggctatcgcatgg	X80764
61004	cctcaaggctatcgcatggagcagc	X80764
61005	gagcagcctcgaaactgcgatgacg	X80764
61006	cctcgaaactgcgatgacgaagtgt	X80764
61007	tacgagctgatgcggcagtgctggc	X80764
61008	ctacagttgggccgcatgctggaag	X80764
61009	ttgggccgcatgctggaagccagga	X80764
61010	aaggcctacgtgaacatgtcgctgt	X80764
61011	tcatcttgggacagctgccacatag	X03051
61012	tgggacagctgccacataggactga	X03051
61013	ttgcacagccaaccttcctggtcct	X03051
61014	ccttcctggtcctcaggcattgggg	X03051
61015	tggtcctcaggcattgggggacatc	X03051
61016	cttcatcctgtcagctccacgctgt	X03051
61017	cctgtcagctccacgctgtcctgga	X03051
61018	tcctggacctgtgtctcctcacacg	X03051
61019	acctgtgtctcctcacacgcacagt	X03051
61020	tcacacgcacagtgtatctcctcat	X03051
61021	gcacagtgtatctcctcatttccac	X03051
61022	tgtatctcctcatttccacactgaa	X03051
61023	agctgccacataggactgagtcact	X03051
61024	agtcactagttctgacttctgaaca	X03051
61025	tagttctgacttctgaacagtgaaa	X03051
61026	atcactttgggcagcagtgtctgcg	X03051
61027	acaccaagactcagaccctacatta	X03051
61028	agactcagaccctacattagccatc	X03051
61029	agaccctacattagccatcatccct	X03051
61030	tacattagccatcatcccttgcaca	X03051
61031	tcagtcatctagaggacctgcggct	X53493
61032	cctcacctgagcagagagcggtaac	X53493

SEQ ID NO	sequence	DBAxnID
103569	atctcaagcttggaatccacgaaga	AA168854
103570	tctcaagcttggaatccacgaagac	AA168854
103571	caagcttggaatccacgaagactcc	AA168854
103572	aaatgctccagcagagcaaaatctt	AA168854
103573	agtcattcgcaaaaacattgttaag	AA168854
103574	gtcattcgcaaaaacattgttaaga	AA168854
103575	tcattcgcaaaaacattgttaagaa	AA168854
103576	tctctgagctggcagaagacaagga	AA168854
103577	aattctatgaggcattctctaaaaa	AA168854
103578	ttctatgaggcattctctaaaaatc	AA168854
103579	aggcattctctaaaaatctcaagct	AA168854
103580	aaatggcccagttgaggtcatggat	AA168855
103581	tggcccagttgaggtcatggatcat	AA168855
103582	taccgaacacacaagatcgaactct	AA168855
103583	cgaacacacaagatcgaactctcac	AA168855
103584	aagatcgaactctcactattgtgga	AA168855
103585	atcgaactctcactattgtggatac	AA168855
103586	ggaatgaccagggctgacgtgatca	AA168855
103587	gtgatcaatcatcttgggtactatc	AA168855
103588	aatcatcttgggtactatcgcacag	AA168855
103589	cttgggtactatcgcacagtctgag	AA168855
103590	tactatcgcacagtctgagacaaag	AA168855
103591	tatcgcacagtctgagacaaagcgt	AA168855
103592	agctcatttcaaattcatcagatgc	AA168855
103593	tttcaaattcatcagatgcattgga	AA168855
103594	caaattcatcagatgcattggacaa	AA168855
103595	attcatcagatgcattggacaaaat	AA168855
103596	aaagcttgacagatcccagtaaatt	AA168855
103597	aattagactctgggagagagctgca	AA168855
103598	agctgcatattaaccttataccgaa	AA168855
103599	accttataccgaacacacaagatcg	AA168855
103600	cagaagtaccgcctgcgcagtaact	AA168857
103601	agtaccgcctgcgcagtaactgcaa	AA168857
103602	ctttcattgctgcaaggaacttcca	AA168857
103603	tgcaaggaacttccatgcctctaac	AA168857
103604	gaacttccatgcctctaacactcat	AA168857
103605	acttccatgcctctaacactcatct	AA168857
103606	cactcatcttcaaaagactgggact	AA168857
103607	ctcatcttcaaaagactgggactgc	AA168857
103608	tcttcaaaagactgggactgctgag	AA168857
103609	gatgtcctctattcttgaagagcgt	AA168857
103610	tgtcctctattcttgaagagcgtat	AA168857
103611	tcctctattcttgaagagcgtattc	AA168857
103612	taccgcctgcgcagtaactgcaaag	AA168857
103613	gcctgcgcagtaactgcaaagatgc	AA168857
103614	aatgctttgggttcatctttcattg	AA168857
103615	ctttgggttcatctttcattgctgc	AA168857
103616	ttgggttcatctttcattgctgcaa	AA168857
103617	gttcatctttcattgctgcaaggaa	AA168857
103618	tcatctttcattgctgcaaggaact	AA168857
103619	atctttcattgctgcaaggaacttc	AA168857
103620	ctctcggatacagccgacaccatgg	AA168859
103621	ctcggatacagccgacaccatgggt	AA168859
103622	ccgacttgtgtcatgcctacgttgg	AA168859
103623	gacttgtgtcatgcctacgttgggt	AA168859
103624	cttgtgtcatgcctacgttgggtat	AA168859
103625	tgtcatgcctacgttgggtatatca	AA168859
103626	tcatgcctacgttgggtatatcaca	AA168859
103627	atgcctacgttgggtatatcacatc	AA168859
103628	ggtatatcacatcgagtcttacgaa	AA168859
103629	tatcacatcgagtcttacgaaaagg	AA168859
103630	tcacatcgagtcttacgaaaaggga	AA168859
103631	cagcctgcaggagtggaggaaagct	AA168859
103632	cggatacagccgacaccatgggttt	AA168859
103633	tacagccgacaccatgggtttcgga	AA168859
103634	gtatgtgcatcacaagcagatgtgg	AA168859
103635	atgtgcatcacaagcagatgtggca	AA168859
103636	tagttgaagccgtgtccagcccacc	AA168859

TABLE 1

SEQ ID NO	sequence	DBAxnID
18429	gaccatcatcctcctgatgagggca	AA062535
18430	catcatcctcctgatgagggcactg	AA062535
18431	catcctcctgatgagggcactggac	AA062535
18432	cctcctgatgagggcactggacccc	AA062535
18433	ctacttggacgacctgcgcacgaag	AA062535
18434	cttggacgacctgcgcacgaagttc	AA062535
18435	atcctctctccagacagacaataca	U09416
18436	tctccagacagacaatacatcaagg	U09416
18437	tttgtacctggtttcactcaagaat	U09416
18438	cctggtttcactcaagaatctcaat	U09416
18439	aggcttcaggaaaccccactggcat	U09416
18440	caggaaaccccactggcatgccctt	U09416
18441	ctggcatgccctttttggcctaatta	U09416
18442	attgttacttcaattctatctactg	U09416
18443	acttcaattctatctactgagctag	U09416
18444	attctatctactgagctaggggcat	U09416
18445	tctactgagctaggggcatattatt	U09416
18446	tattattcttcattcgacaatatta	U09416
18447	caggagcccctgcttgatgtgctac	U09416
18448	cccctgcttgatgtgctacaaaagc	U09416
18449	aagatgtaccagcctgagaacccac	U09416
18450	cctgagaacccacagcatttcgcct	U09416
18451	acattcaaccatcaccacgctgaga	U09416
18452	aaccatcaccacgctgagatgctga	U09416
18453	ctcctctgtgagatctgggatgtgc	U09416
18454	tgtcctcctcggaacagaaaccttg	U09416
18455	tggaccacctgacaggatggttggt	W62091
18456	accacctgacaggatggttggtctc	W62091
18457	tgacctcgctgtcagagagctggta	W62091
18458	cctcgctgtcagagagctggtataa	W62091
18459	agagctggtataacctcctgttgga	W62091
18460	ggtataacctcctgttggacatgca	W62091
18461	ataacctcctgttggacatgcagaa	W62091
18462	acctcctgttggacatgcagaaccg	W62091
18463	acatgcagaaccgatccataaaggt	W62091
18464	agaaccgatccataaaggtcatcaa	W62091
18465	taaaggtcatcaaaaccttggccag	W62091
18466	ttgggcactccttctggagatcctt	W62091
18467	atggctccctagttatgcagaatct	W62091
18468	tgggcactccttctggagatccttt	W62091
18469	ctacccctacacagggctcggtgct	W62091
18470	ctacacagggctcggtgctctttgg	W62091
18471	cacagggctcggtgctctttggcac	W62091
18472	cggtgctctttggcacagtcaacgg	W62091
18473	tctttggcacagtcaacggcatgat	W62091
18474	gcacagtcaacggcatgatagggct	W62091
18475	cagtcaacggcatgatagggctggt	W62091
18476	cctctcctacacgaggatcaagcgc	U09419
18477	acgcatgctcatgaagctggtgagc	U09419
18478	ttggtggtgtcttcttgaagatgga	U09419
18479	agtccctcgggctcagcctcaaact	U09419
18480	tcgggctcagcctcaaactcagcgg	U09419
18481	gcctcaaactcagcggcagttggca	U09419
18482	tcaaactcagcggcagttggcacta	U09419
18483	tcagcggcagttggcactaagaagg	U09419
18484	ccattgagtcttccaagagtggtga	U09419
18485	agggtcacaggtcctagcctctgac	U09419
18486	accacaccatgcaccttgagtggag	U09419
18487	tgcaccttgagtggagagaggttag	U09419
18488	cagctccgtgcactcggagcaggtc	U09419
18489	cgtgcactcggagcaggtctttgca	U09419
18490	gcactcggagcaggtctttgcattg	U09419
18491	ggtctttgcattgcgactccaggac	U09419
18492	ctttgcattgcgactccaggacaag	U09419
18493	attgcgactccaggacaagaagctg	U09419
18494	gtccgagatctgggatgtgcacgag	U09419
18495	gccttggtggtgtcttcttgaagat	U09419
18496	tttctgataggcacatcatgatcag	W62058

SEQ ID NO:	sequence	DBAxnID
61033	gtccctggtccctacagtcatctta	X53493
61034	cctggtccctacagtcatcttagga	X53493
61035	ggtccctacagtcatcttaggatct	X53493
61036	tacagtcatcttaggatctgcaggc	X53493
61037	agtcatcttaggatctgcaggcccc	X53493
61038	catcttaggatctgcaggcccctcg	X53493
61039	ttaggtcacccttgtttcagcaaga	X53493
61040	ggtcacccttgtttcagcaagacac	X53493
61041	cacccttgtttcagcaagacacact	X53493
61042	tgtttcagcaagacacactgaccttt	X53493
61043	cacctgagcagagagcggtaacagg	X53493
61044	gacctgtatcctcaagactcctgtg	X53493
61045	ctgtatcctcaagactcctgtgctt	X53493
61046	tatcctcaagactcctgtgctttga	X53493
61047	caagactcctgtgctttgaagactc	X53493
61048	gactcctgtgctttgaagactcagt	X53493
61049	cagtttactgagccagcttccaggg	X53493
61050	tttactgagccagcttccagggtcc	X53493
61051	aagctccatgtcgaccagccgcaag	AA144629
61052	catgtcgaccagccgcaagctaaag	AA144629
61053	aagtcgcaattaccgatcccacttg	AA144629
61054	tcgcaattaccgatcccacttgtga	AA144629
61055	caattaccgatcccacttgtgatgc	AA144629
61056	ccgatcccacttgtgatgcggcaat	AA144629
61057	ccacttgtgatgcggcaatgagctc	AA144629
61058	caatgagctctgccctggtggtctt	AA144629
61059	tgagctctgccctggtggtcttcaa	AA144629
61060	gctctgccctggtggtcttcaaaca	AA144629
61061	ctgccctggtggtcttcaaacaaca	AA144629
61062	gtggtcttcaaacaacacggggcag	AA144629
61063	gtcgaccagccgcaagctaaagact	AA144629
61064	gaccagccgcaagctaaagactcat	AA144629
61065	aggcaagaaccgagctcctcacaag	AA144629
61066	caagaaccgagctcctcacaagggc	AA144629
61067	ccgagctcctcacaagggcgtcaag	AA144629
61068	agctcctcacaagggcgtcaagaga	AA144629
61069	tcctcacaagggcgtcaagagaggt	AA144629
61070	tcacaagggcgtcaagagaggtgga	AA144629
61071	gcaccaggcccgactgtttcttgga	W90864
61072	cgactgtttcttggaagtagccgat	W90864
61073	tgctgtagctgtggcttctgaccgc	W90864
61074	gtagctgtggcttctgaccgctgct	W90864
61075	catccacctgcagctgcaggtgcta	W90864
61076	ctgcagctgcaggtgctagtggacc	W90864
61077	gcagctgcaggtgctagtggaccca	W90864
61078	cagctgcaggtgctagtggacccag	W90864
61079	ccagcccgggagttgggcaagctgc	W90864
61080	caagctgcaggccaagcgaagtgag	W90864
61081	gctgcaggccaagcgaagtgaggca	W90864
61082	ctgcaggccaagcgaagtgaggcac	W90864
61083	ctgtttcttggaagtagccgatgac	W90864
61084	tttcttggaagtagccgatgacgca	W90864
61085	tagccgatgacgcacaggtgccttg	W90864
61086	agccgatgacgcacaggtgccttgg	W90864
61087	cacgcagcttgctgctgtagctgtg	W90864
61088	cttgctgctgtagctgtggcttctg	W90864
61089	tgctgctgtagctgtggcttctgac	W90864
61090	gctgctgtagctgtggcttctgacc	W90864
61091	atactacaccttaatggacattgcg	D90085
61092	cattgcgtacatctacccctggcga	D90085
61093	cgctgggaccaccacagctaccaat	D90085
61094	tgggaccaccacagctaccaatggg	D90085
61095	gaccaccacagctaccaatgggggc	D90085
61096	caccacagctaccaatgggggcact	D90085
61097	cacagctaccaatgggggcacttcg	D90085
61098	taccaatgggggcacttcgaactgc	D90085
61099	gggcacttcgaactgcctgcaaacg	D90085
61100	cacttcgaactgcctgcaaacgcca	D90085

SEQ ID NO	sequence	DBAxnID
103637	tgaagccgtgtccagcccaccggct	AA168859
103638	gcccaccggctgccgacttgtgtca	AA168859
103639	ccaccggctgccgacttgtgtcatg	AA168859
103640	agccactctcaaaatcacgctggat	AA168866
103641	gccactctcaaaatcacgctggata	AA168866
103642	ggtgtgaacttcctggggctgctgt	AA168866
103643	gtgtgaacttcctggggctgctgtg	AA168866
103644	tgtgaacttcctggggctgctgtgg	AA168866
103645	gtgaacttcctggggctgctgtgga	AA168866
103646	tgaacttcctggggctgctgtggac	AA168866
103647	gaacttcctggggctgctgtggact	AA168866
103648	aacttcctggggctgctgtggactt	AA168866
103649	acttcctggggctgctgtggacttg	AA168866
103650	cttcctggggctgctgtggacttgc	AA168866
103651	cactctcaaaatcacgctggataac	AA168866
103652	actctcaaaatcacgctggataacg	AA168866
103653	ctctcaaaatcacgctggataacgc	AA168866
103654	tctcaaaatcacgctggataacgcc	AA168866
103655	ctcaaaatcacgctggataacgcct	AA168866
103656	tcaaaatcacgctggataacgccta	AA168866
103657	atgggcttatttctctccaggtgaa	AA168866
103658	gggcttatttctctccaggtgaagc	AA168866
103659	taaacagcctctaccttgcgagccg	AA168694
103660	aacagcctctaccttgcgagccgtc	AA168694
103661	tgagaagccgtggcagaggtttcca	AA168694
103662	agaagccgtggcagaggtttccagt	AA168694
103663	tgtttcctcgtctcttccagatatt	AA168694
103664	gtttcctcgtctcttccagatattt	AA168694
103665	tttcctcgtctcttccagatatttg	AA168694
103666	cgtctcttccagatatttgttatcg	AA168694
103667	gtctcttccagatatttgttatcgc	AA168694
103668	gatatttgttatcgctgtggtgagt	AA168694
103669	atatttgttatcgctgtggtgagtc	AA168694
103670	tatttgttatcgctgtggtgagtct	AA168694
103671	acagcctctaccttgcgagccgtct	AA168694
103672	cagcctctaccttgcgagccgtctt	AA168694
103673	agcctctaccttgcgagccgtcttc	AA168694
103674	cgctccgacgcggaagatctgactg	AA168694
103675	gaagatctgactgcagccatgagca	AA168694
103676	gactgcagccatgagcagcaatgag	AA168694
103677	aatgagaagccgtggcagaggtttc	AA168694
103678	atgagaagccgtggcagaggtttcc	AA168694
103679	caccgtgtacacagcaatggatgtg	AA168841
103680	cgtgtacacagcaatggatgtggcc	AA168841
103681	gaacccaaacattgtgaattacttg	AA168841
103682	cttggacagttacctcgtgggagat	AA168841
103683	tggacagttacctcgtgggagatga	AA168841
103684	ggacagttacctcgtgggagatgag	AA168841
103685	acagttacctcgtgggagatgagct	AA168841
103686	cagttacctcgtgggagatgagctg	AA168841
103687	gaggctccttgacagatgtggtgac	AA168841
103688	aggctccttgacagatgtggtgaca	AA168841
103689	aggccaaattgcagctgtgtgccgt	AA168841
103690	ccaaattgcagctgtgtgccgtgag	AA168841
103691	gtacacagcaatggatgtggccaca	AA168841
103692	agatgaatcttcagcagcagcccga	AA168841
103693	gatgaatcttcagcagcagcccgag	AA168841
103694	tgaatcttcagcagcagcccgagaa	AA168841
103695	gaatcttcagcagcagcccgagaaa	AA168841
103696	atcttcagcagcagcccgagaaaga	AA168841
103697	agatcctggtcatgagggaaaacaa	AA168841
103698	gatcctggtcatgagggaaaacaag	AA168841
103699	aaaccatttcatcatgtgttctata	M11891
103700	accatttcatcatgtgttctataat	M11891
103701	atttgttgtcatttggcatcacgaa	M11891
103702	tttgttgtcatttggcatcacgaac	M11891
103703	tcatttggcatcacgaactagagaa	M11891
103704	catttggcatcacgaactagagaaa	M11891

TABLE 1

SEQ ID NO	sequence	DBAxnID
18497	ttctgataggcacatcatgatcagt	W62058
18498	ttgtactatgggtcacatggaactg	W62058
18499	aactgagcaaacatccaacattttg	W62058
18500	actgagcaaacatccaacattttgg	W62058
18501	tgagcaaacatccaacattttggca	W62058
18502	gagcaaacatccaacattttggcaa	W62058
18503	gcaaacatccaacattttggcaagc	W62058
18504	aacatccaacattttggcaagcagc	W62058
18505	acatccaacattttggcaagcagct	W62058
18506	tccaacattttggcaagcagctaaa	W62058
18507	aacattttggcaagcagctaaaagg	W62058
18508	acatcatgatcagtgaccaaagaca	W62058
18509	catcatgatcagtgaccaaagacac	W62058
18510	tgaccaaagacacaactgaccatag	W62058
18511	accaaagacacaactgaccataggt	W62058
18512	ccaaagacacaactgaccataggta	W62058
18513	aagacacaactgaccataggtaccg	W62058
18514	gacacaactgaccataggtaccggg	W62058
18515	cttgtactatgggtcacatggaact	W62058
18516	gagcggcccatcttttggagaggac	AA049052
18517	cccatcttttggagaggactgctat	AA049052
18518	ccgtaccaggtcttgtagcagtgct	AA049052
18519	taccaggtcttgtagcagtgcttcc	AA049052
18520	gtcttgtagcagtgcttcctcgaga	AA049052
18521	ttgtagcagtgcttcctcgagaagc	AA049052
18522	ttcctcgagaagccaacagagcagt	AA049052
18523	tgacaaggagggccacctggtgtgc	AA049052
18524	tgtgccggatcggcgattggctcca	AA049052
18525	gtgccggatcggcgattggctccaa	AA049052
18526	tgccggatcggcgattggctccaag	AA049052
18527	gatcggcgattggctccaagagcga	AA049052
18528	ctgctatgggtcttcacgttctcga	AA049052
18529	ctatgggtcttcacgttctcgacat	AA049052
18530	tgggtcttcacgttctcgacatctg	AA049052
18531	ttcacgttctcgacatctgagacgg	AA049052
18532	acgttctcgacatctgagacggtca	AA049052
18533	ttctcgacatctgagacggtcacga	AA049052
18534	tcgacatctgagacggtcacgagag	AA049052
18535	acgccgtaccaggtcttgtagcagt	AA049052
18536	catctggtcaatcaacaccaccagc	L27220
18537	gggttacattgcttcagttggtggg	L27220
18538	caagctctgtgctgccaaggacatg	L27220
18539	ggacatgacgcatctgttgaactca	L27220
18540	gacgcatctgttgaactcacattct	L27220
18541	tctgttgaactcacattctagcacg	L27220
18542	gaactcacattctagcacgtgcttc	L27220
18543	tagcacgtgcttcaatagctcaagg	L27220
18544	gtgcttcaatagctcaaggaaccga	L27220
18545	aaagtcattaatcctacgtgactcg	L27220
18546	tgactcgtgctctgtggtctctatc	L27220
18547	gtgctctgtggtctctatcagctcc	L27220
18548	cctcatggaggcaggctggaaagtc	L27220
18549	tctatcagctccctggggaaagtgg	L27220
18550	tttctgcacccaactgcggcatcca	L27220
18551	actgcggcatccacacgaccagtct	L27220
18552	ccagtctgcctcatgtgccaaatca	L27220
18553	atgtgccaaatcaggctttgccctg	L27220
18554	gtctctgctcacttccaccagagct	L27220
18555	cagagctctggactgtctgtcctgt	L27220
18556	ccatcacaagctctgtgctgccaag	L27220
18557	tttgcaacagcatgaatcaagaaaa	AA041651
18558	aaagttagccaaacttcaagctcag	AA041651
18559	taggacagctactgctgatgacaaa	AA041651
18560	ggacagctactgctgatgacaaaaa	AA041651
18561	gacagctactgctgatgacaaaaag	AA041651
18562	cagctactgctgatgacaaaaagct	AA041651
18563	agctactgctgatgacaaaaagctt	AA041651
18564	agcttcagagttcactaaagaaact	AA041651

SEQ ID NO	sequence	DBAxnID
61101	ttcgaactgcctgcaaacgccatcc	D90085
61102	tggttcctcccatttttcagagtggg	D90085
61103	catctacccctggcgaaggaatggg	D90085
61104	caagtaccgtgtccagccagcctgc	D90085
61105	ctcagaaggcaccaacaccagcggg	D90085
61106	caccaacaccagcggggcatcagag	D90085
61107	caacaccagcggggcatcagagtgt	D90085
61108	caccagcggggcatcagagtgtgag	D90085
61109	ttcaactgccgctgggaccaccaca	D90085
61110	aactgccgctgggaccaccagcct	D90085
61111	gttaagtctaggcttgaggtgtcgg	U09218
61112	tgcttttcaaatgccccccaaggtct	U09218
61113	aatccacacaaagacaatgatgggt	U09218
61114	ttttaccaaccttcaattgcataca	U09218
61115	ccttcaattgcatacagtgacaatg	U09218
61116	gacaatgttttcctattatgaatgg	U09218
61117	ttgagcacgtctatttgtaaaccca	U09218
61118	acgtctatttgtaaacccagctgag	U09218
61119	atttgtaaacccagctgagaactct	U09218
61120	tgtaaacccagctgagaactctggt	U09218
61121	aaacccagctgagaactctggtgac	U09218
61122	taccaagagcccggaagtacataga	U09218
61123	aagcacttggaatcacgggttgaag	U09218
61124	ggaatgcctgatcttgcccatgtga	U09218
61125	atgcctgatcttgcccatgtgatgc	U09218
61126	gatcttgcccatgtgatgcgcattt	U09218
61127	atgcgcattttgtctgcagaaaata	U09218
61128	ctcgctggcaagcgccatgttattg	U09218
61129	ggcaagcgccatgttattgaagctg	U09218
61130	agtagacttaatccacacaaagaca	U09218
61131	gcaagaacttcccttgtctgtaggt	X52129
61132	aggtggccttgtctgtaggtctgtc	X52129
61133	ctcttcaacacaccattaggtgggt	X52129
61134	tttgttgcccgagaaatggaaggag	X52129
61135	aactgctgtgggctgaggttgttcg	X52129
61136	gttctccattaattacatgaacttc	X52129
61137	ttacatgaacttcctgtagggctac	X52129
61138	catgaacttcctgtagggctacaaa	X52129
61139	caaagtatctgcggcagttatttaa	X52129
61140	aagagcagcaccacctagtggctaa	X52129
61141	agcagcaccacctagtggctaaata	X52129
61142	agcaccacctagtggctaaataatg	X52129
61143	ccttgtctgtaggtctgtcctacag	X52129
61144	ctgtaggtctgtcctacagaatgtg	X52129
61145	taggtctgtcctacagaatgtgttt	X52129
61146	ggcattttccaaaggtcctgaactg	X52129
61147	caaaggtcctgaactggcctcttca	X52129
61148	aggtcctgaactggcctcttcaaca	X52129
61149	tcctgaactggcctcttcaacacac	X52129
61150	actggcctcttcaacacaccattag	X52129
61151	gatttcaccacacaaggccgcagct	X60703
61152	caaggccgcagctcaagacactgga	X60703
61153	cagtagcttccatctcatgtgtttc	X60703
61154	tctcatgtgtttccacaggagcagt	X60703
61155	gtgtttccacaggagcagtgcaggc	X60703
61156	cgtgctaatgcctctcctacgcact	X60703
61157	ctggcatagactccagatccttcta	X60703
61158	gttcattcagaatcagcaaggctct	X60703
61159	tccagtcaccacaaagcacaggcga	X60703
61160	tgctatagcattttgctggtctggc	X60703
61161	agcattttgctggtctggctcagat	X60703
61162	ttgctggtctggctcagatatcctc	X60703
61163	cgcagctcaagacactggacaggaa	X60703
61164	ggcaagtctcaagctgcctgggcaa	X60703
61165	tctcaagctgcctgggcaaagacat	X60703
61166	tgaggacaccagatgctgagtctta	X60703
61167	atgctgagtcttatcatcagcccaa	X60703
61168	atcatcagcccaaggctgcagtagc	X60703

SEQ ID NO	sequence	DBAxnID
103705	atttggcatcacgaactagagaaag	M11891
103706	tttggcatcacgaactagagaaagc	M11891
103707	ttggcatcacgaactagagaaagca	M11891
103708	aagggaacttgcagccctataggtg	M11891
103709	agggaacttgcagccctataggtgg	M11891
103710	gggaacttgcagccctataggtgga	M11891
103711	ccatttcatcatgtgttctataata	M11891
103712	ggaacttgcagccctataggtggaa	M11891
103713	catttcatcatgtgttctataatac	M11891
103714	atttcatcatgtgttctataataca	M11891
103715	tcatcatgtgttctataatacattt	M11891
103716	aatacatttgttgtcatttggcatc	M11891
103717	atacatttgttgtcatttggcatca	M11891
103718	acatttgttgtcatttggcatcacg	M11891
103719	catttgttgtcatttggcatcacga	M11891
103720	gctcaagatgtccacggaggagatc	AA168762
103721	caagatgtccacggaggagatcatc	AA168762
103722	catcgagctcctggatgttgatcct	AA168762
103723	cgagctcctggatgttgatcctaat	AA168762
103724	gctcctggatgttgatcctaatgac	AA168762
103725	tgttgatcctaatgaccaagaggag	AA168762
103726	tgatcctaatgaccaagaggaggat	AA168762
103727	tcctaatgaccaagaggaggatggt	AA168762
103728	tgccaatattgacctggactcccag	AA168762
103729	caatattgacctggactcccagagg	AA168762
103730	tattgacctggactcccagaggaag	AA168762
103731	tgacctggactcccagaggaagggc	AA168762
103732	gatcatccagcgcacacggctgctg	AA168762
103733	cacacggctgctggacagtgagatc	AA168762
103734	acggctgctggacagtgagatcaag	AA168762
103735	gagagtcacccatgagctccaagcc	AA168762
103736	agtcacccatgagctccaagccatg	AA168762
103737	ccatgagctccaagccatgaaggac	AA168762
103738	tgagctccaagccatgaaggacaag	AA168762
103739	gctccaagccatgaaggacaagata	AA168762
103740	ttgctttaattgttgccagcagggt	W09191
103741	taattgttgccagcagggtgtgctg	W09191
103742	ccatgagcttatccccttgagatgg	W09191
103743	tatcccctgagatgggtaagtatt	W09191
103744	agcttattctgtaacagtgaaacac	W09191
103745	aacagtgaaacactatcctggccat	W09191
103746	agtgaaacactatcctggccataag	W09191
103747	gaaacactatcctggccataaggag	W09191
103748	gtgttcagccagaccaggccagtaa	W09191
103749	agccagaccaggccagtaagtatgc	W09191
103750	cagaccaggccagtaagtatgcagg	W09191
103751	agtatgcagggtcagcagtgcacaa	W09191
103752	ttgccagcagggtgtgctgctgagc	W09191
103753	gtttcactgatgtctcgaaggtcga	W09191
103754	tatttaggccacatcgcttccggta	W09191
103755	ttaggccacatcgcttccggtactg	W09191
103756	gcttccggtactgccctgcatccag	W09191
103757	ggtactgccctgcatccaggaagtg	W09191
103758	actgccctgcatccaggaagtgagc	W09191
103759	gccctgcatccaggaagtgagcagc	W09191
103760	cagccatgagcttatccccttgaga	W09191
103761	gactccggcattacattgcaaccca	AA169983
103762	ctccggcattacattgcaacccaaa	AA169983
103763	acccaaagtccaatgcaaaagactg	AA169983
103764	cccaaagtccaatgcaaaagactgt	AA169983
103765	atttttcgagaatgatctggcaaga	AA169983
103766	caagaaaactctgccagcatcgtaa	AA169983
103767	aactctgccagcatcgtaatggtca	AA169983
103768	actctgccagcatcgtaatggtcaa	AA169983
103769	tctgccagcatcgtaatggtcaaag	AA169983
103770	ctgccagcatcgtaatggtcaaaga	AA169983
103771	atggtcaaagaccttgtggaaatgg	AA169983
103772	agtgtgtccgatattggcaagatga	AA169983

TABLE 1

SEQ ID NO	sequence	DBAxnID
18565	ttattcatttcaacaatcccaaagt	AA041651
18566	tattcatttcaacaatcccaaagtc	AA041651
18567	ttcatttcaacaatcccaaagtcca	AA041651
18568	tttcaacaatcccaaagtccaagct	AA041651
18569	agttagccaaacttcaagctcaggt	AA041651
18570	gttagccaaacttcaagctcaggtc	AA041651
18571	tagccaaacttcaagctcaggtccg	AA041651
18572	agccaaacttcaagctcaggtccgg	AA041651
18573	ccaaacttcaagctcaggtccggat	AA041651
18574	aacttcaagctcaggtccggatagg	AA041651
18575	agggtacagctcgcaggaagaagaa	AA041651
18576	acataggacagctactgctgatgac	AA041651
18577	tgccactcagagctcatccagctgg	U09874
18578	tcagagctcatccagctggtcaaca	U09874
18579	gagaagcgtccacctacattgcgac	U09874
18580	cgtccacctacattgcgactggaga	U09874
18581	cctacattgcgactggagatcattg	U09874
18582	gacagcaagacccgcaaactggaca	U09874
18583	aaggtgtgctacaccatctagcatc	U09874
18584	tgctacaccatctagcatccacctg	U09874
18585	accatctagcatccacctgtctgtg	U09874
18586	gtctgtgccctgaacatctaataaa	U09874
18587	aacatctaataaaggccccttgctg	U09874
18588	taataaaggccccttgctgtggcat	U09874
18589	ctcatccagctggtcaacaaggaac	U09874
18590	ggccccttgctgtggcatggcaacc	U09874
18591	ctgaacttctgggccaagagagcca	U09874
18592	aggcacaacatcacactactgtggg	U09874
18593	acactactgtgggaccgcgaggtgg	U09874
18594	aaccaactggcggcagcctatgagc	U09874
18595	accctgcgtatcactgtggaggatt	U09874
18596	tcggacaagcacctcctcaagagcc	U09874
18597	tcaccccaggctgagaagcgtccac	U09874
18598	taaagtcactgccaagaagatcaaa	U12147
18599	aaaccgtcttgagctggtggtagat	U12147
18600	ccgaggctgcatccgatctctgaag	U12147
18601	ctgcatccgatctctgaagctcacc	U12147
18602	tctgaagctcaccaaaggcactgca	U12147
18603	gctcaccaaaggcactgcaaaccgc	U12147
18604	cactgcaaaccgctggaggttaatt	U12147
18605	tttgccaaggccctggaactgaggg	U12147
18606	ggtgttcaacctgtatcatgcccga	U12147
18607	caacctgtatcatgcccgactacct	U12147
18608	gtatcatgcccgactacctaataaa	U12147
18609	agatagttcaatcctgaggagaatt	U12147
18610	tcttgagctggtggtagatgggaac	U12147
18611	ggatgcccagagcccaaactcagca	U12147
18612	cccaaactcagcatcgacatcagct	U12147
18613	atcgacatcagctgatacaaacgac	U12147
18614	aggtggcctcaatcagtttggcctg	U12147
18615	tcagtttggcctgaccaccaacatt	U12147
18616	tggcctgaccaccaacattaggttc	U12147
18617	taggttccgaggctgcatccgatct	U12147
18618	ctttgaatctctggcctcacagttc	AA051063
18619	tctggcctcacagttcagtgattgc	AA051063
18620	gtcgtttgctctacggacaggggag	AA051063
18621	tgctctacggacaggggagatgagt	AA051063
18622	cgtgttcacggactcgggcatccat	AA051063
18623	gttcacggactcgggcatccatatc	AA051063
18624	cacggactcgggcatccatatcatc	AA051063
18625	ctcgggcatccatatcatcctgcgc	AA051063
18626	gggcatccatatcatcctgcgcaca	AA051063
18627	catccatatcatcctgcgcacagaa	AA051063
18628	tatcatcctgcgcacagaatgaggg	AA051063
18629	catcctgcgcacagaatgagggcag	AA051063
18630	ggcctcacagttcagtgattgcagc	AA051063
18631	ctcacagttcagtgattgcagctct	AA051063
18632	tgattgcagctctgccaaagccagg	AA051063

SEQ ID NO:	sequence	DBAxnID
61169	agcccaaggctgcagtagcttccat	X60703
61170	aggctgcagtagcttccatctcatg	X60703
61171	acagggaagcttccggcgggatctg	W89472
61172	aagcttccggcgggatctgcctgtt	W89472
61173	ttggctagctacttcttaaatcgtg	W89472
61174	gctagctacttcttaaatcgtgccc	W89472
61175	agctacttcttaaatcgtgcccaga	W89472
61176	ttcttaaatcgtgcccagagtctgt	W89472
61177	aatcgtgcccagagtctgtgtggcc	W89472
61178	cagagtctgtgtggcccagagcatg	W89472
61179	tccctgtggtggctatgcatccctt	W89472
61180	tggtggctatgcatcccttgggcca	W89472
61181	tggctatgcatcccttgggccagaa	W89472
61182	ctatgcatcccttgggccagaagtt	W89472
61183	ggatctgcctgttcagatgtgcaca	W89472
61184	atgcatcccttgggccagaagtttt	W89472
61185	cacatggctctgtgtgctgtgaacc	W89472
61186	ctaccaagcacactgattgagatcc	W89472
61187	gagatccacctgacagcggccattg	W89472
61188	atccacctgacagcggccattgggc	W89472
61189	ctcaagacccgctgtggaggcaagc	W89472
61190	aagctgggcttcttggctagctact	W89472
61191	ctgggcttcttggctagctacttct	W89472
61192	catcatgctgctttcctactgcctc	X81323
61193	catgctgctttcctactgcctccga	X81323
61194	gcaccctcaattacatagcatcaga	X81323
61195	tcaattacatagcatcagaatgagt	X81323
61196	aaatttcttgtgttggtgacagaca	X81323
61197	tttcttgtgttggtgacagacagct	X81323
61198	tgaatctatctggttttgtaaagaa	X81323
61199	aaccacaggcacagtacaccatatg	X81323
61200	cacaggcacagtacaccatatgcac	X81323
61201	cacagtacaccatatgcactctgat	X81323
61202	agtacaccatatgcactctgatacc	X81323
61203	acaccatatgcactctgatacctta	X81323
61204	cctccgacactcggcaagtagagag	X81323
61205	ccgacactcggcaagtagagagcac	X81323
61206	tagagagcactccctgcctgccagc	X81323
61207	cagctgcacactgcatgagaggttt	X81323
61208	ctgcacactgcatgagaggttttca	X81323
61209	aatctccataaggagtcataacaaa	X81323
61210	tttagagcaccctcaattacatagc	X81323
61211	agagcaccctcaattacatagcatc	X81323
61212	gacaaggacatctctcctttctcct	W87253
61213	cctttctcctacacggcaccgagat	W87253
61214	tccttcgtgttccggcatctgctgc	W87253
61215	ttccggcatctgctgcctctcacag	W87253
61216	cggcatctgctgcctctcacagaca	W87253
61217	ctgctgcctctcacagacagagtcg	W87253
61218	ctgcctctcacagacagagtcgaca	W87253
61219	cctctcacagacagagtcgacagct	W87253
61220	ctcacagacagagtcgacagcttca	W87253
61221	agagtcgacagcttcaacgaggaag	W87253
61222	gtcgacagcttcaacgaggaagtga	W87253
61223	tgtgttgatgcggtcctccaggctg	W87253
61224	tcctacacggcaccgagataccaga	W87253
61225	aggctgctgtctgcaaggagaagat	W87253
61226	tacacggcaccgagataccagacca	W87253
61227	acggcaccgagataccagaccaatc	W87253
61228	gcaccgagataccagaccaatccgt	W87253
61229	agataccagaccaatccgtgtattg	W87253
61230	taccagaccaatccgtgtattggtt	W87253
61231	cagaccaatccgtgtattggttaca	W87253
61232	gcctccttcgtgttccggcatctgc	W87253
61233	tcgatgctgccatttctaataaaga	X63162
61234	ctgccatttctaataaagagaaaag	X63162
61235	ggcatcctgtgttttaactgatgct	X63162
61236	gctttgttcagcatgtgctatggca	X63162

SEQ ID NO	sequence	DBAxnID
103773	cggcattacattgcaacccaaagtc	AA169983
103774	ggcattacattgcaacccaaagtcc	AA169983
103775	cattacattgcaacccaaagtccaa	AA169983
103776	attacattgcaacccaaagtccaat	AA169983
103777	tacattgcaacccaaagtccaatgc	AA169983
103778	acattgcaacccaaagtccaatgca	AA169983
103779	ttgcaacccaaagtccaatgcaaaa	AA169983
103780	gcaacccaaagtccaatgcaaaaga	AA169983
103781	atcaattatgattttcccaccagct	AA169961
103782	caattatgattttcccaccagctca	AA169961
103783	tgccaatgttatccagcaggctggt	AA169961
103784	aatgttatccagcaggctggttgtc	AA169961
103785	tgttatccagcaggctggttgtcct	AA169961
103786	atccagcaggctggttgtcctgtgc	AA169961
103787	ccagcaggctggttgtcctgtgccc	AA169961
103788	ggttgtcctgtgcccgaatacataa	AA169961
103789	ttgtcctgtgcccgaatacataaaa	AA169961
103790	ttccagaaacctctaagcagacaaa	AA169961
103791	ccagaaacctctaagcagacaaaag	AA169961
103792	agcatttgtacaactccaaagtact	AA169961
103793	tatgattttcccaccagctcagtgg	AA169961
103794	tgtacaactccaaagtacttcttag	AA169961
103795	tttcccaccagctcagtggagtact	AA169961
103796	tcccaccagctcagtggagtacttc	AA169961
103797	accagctcagtggagtacttccata	AA169961
103798	gagtacttccataggataggtcgga	AA169961
103799	ggctgttacatttttcactgaagat	AA169961
103800	gttacatttttcactgaagatgata	AA169961
103801	tacatttttcactgaagatgataaa	AA169961
103802	tgtcatttgttctgtcatacatctg	
103803	gtcatttgttctgtcatacatctgt	
103804	catttgttctgtcatacatctgttg	
103805	ttgttctgtcatacatctgttgtca	
103806	gttctgtcatacatctgttgtcatt	
103807	ctgtcatacatctgttgtcattttc	
103808	catacatctgttgtcattttcttaa	
103809	atacatctgttgtcattttcttaaa	
103810	acatctgttgtcattttcttaaata	
103811	aatatataccattttgtcatttgtt	
103812	tatataccattttgtcatttgttct	
103813	atttgttctgtcatacatctgttgt	
103814	ttgttctgtcatacatctgttgtca	
103815	ttctgtcatacatctgttgtcattt	
103816	tctgtcatacatctgttgtcatttt	
103817	gtcatacatctgttgtcattttctt	
103818	catacatctgttgtcattttcttaa	
103819	atacatctgttgtcattttcttaaa	
103820	acatctgttgtcattttcttaaata	
103821	catctgttgtcattttcttaaatat	
103822	tctgttgtcattttcttaaatatcg	
103823	atataccattttgtcatttgttctg	
103824	atacattttgtcatttgttctgtc	
103825	ccattttgtcatttgttctgtcata	
103826	cattttgtcatttgttctgtcatac	
103827	tttgtcatttgttctgtcatacatc	
103828	tgtcatttgttctgtcatacatctg	
103829	gtcatttgttctgtcatacatctgt	
103830	catttgttctgtcatacatctgttg	
103831	ggggaccccatgctccatgatgctt	AA170018
103832	accccatgctccatgatgcttggtc	AA170018
103833	ctatccttaggctatatacaaacgc	AA170018
103834	gctatatacaaacgctttgatactg	AA170018
103835	tatatacaaacgctttgatactgac	AA170018
103836	tacaaacgctttgatactgaccgat	AA170018
103837	agggactatcgttcgccatgaactt	AA170018
103838	tatcgttcgccatgaacttccaggg	AA170018
103839	tcgttcgccatgaacttccaggggc	AA170018
103840	catgaacttccaggggcctttgagg	AA170018

TABLE 1

SEQ ID NO	sequence	DBAxnID
18633	ctctgccaaagccaggggagacctg	AA051063
18634	cctgggtcccttcagcagaggtcag	AA051063
18635	gggtcccttcagcagaggtcagatg	AA051063
18636	tcccttcagcagaggtcagatgcag	AA051063
18637	atttgaggatgcgtcgtttgctcta	AA051063
18638	tccaagtcgcacaccgaggccaagc	W62249
18639	cacaccgaggccaagcccacaagtg	W62249
18640	acctccagcaacataccagaatcca	W62249
18641	tccagcaacataccagaatccacac	W62249
18642	ccagaatccacacaggcgacagacc	W62249
18643	tccacacaggcgacagaccatacaa	W62249
18644	caggcgacagaccatacaagtgccc	W62249
18645	acagaccatacaagtgcccgcatcc	W62249
18646	gaccatacaagtgcccgcatcctgg	W62249
18647	catacaagtgcccgcatcctggctg	W62249
18648	gcccgcatcctggctgcgaaaaggc	W62249
18649	cgcatcctggctgcgaaaaggcttt	W62249
18650	agtgcccacactgctccaagtcctt	W62249
18651	agcgccacgacaactaaggacaagc	W62249
18652	cacactgctccaagtcctttgccaa	W62249
18653	tgcgcatccacctgggtgtcaagcc	W62249
18654	tccacctgggtgtcaagccctacca	W62249
18655	acctgggtgtcaagccctaccactg	W62249
18656	actgctcctactgtgacaagtcctt	W62249
18657	gctcctactgtgacaagtccttccg	W62249
18658	cctactgtgacaagtccttccggca	W62249
18659	gtagctgtcatccacaaagatgcag	U19799
18660	gctgtcatccacaaagatgcagaga	U19799
18661	ctccgtgcacatggggcccctgaac	U19799
18662	gacgataagcttagcccttgcagca	U19799
18663	gataagcttagcccttgcagcagca	U19799
18664	cttagcccttgcagcagcagcggca	U19799
18665	ccttgcagcagcagcggcagcgaca	U19799
18666	gatgacatcgtggttcacagtggca	U19799
18667	gtggttcacagtggcaggagccaaa	U19799
18668	gttcacagtggcaggagccaaaacc	U19799
18669	gcatccaaacctcttcctgatgacc	U19799
18670	cctgcctgacttaagtgctaatatt	U19799
18671	ctcagggatgccggagccgacctca	U19799
18672	gatgccggagccgacctcaataaac	U19799
18673	ctcaataaaccggagcctacgtgtg	U19799
18674	cctctgcacctggcagtagaagccc	U19799
18675	ctgcacctggcagtagaagcccagg	U19799
18676	gtgctggaacttctcctgaaagccg	U19799
18677	gaacttctcctgaaagccggtgctg	U19799
18678	ctcctgaaagccggtgctgacccca	U19799
18679	cgatttctgtgcgatttcatgtaca	L38422
18680	cacggacgctccgagcaatttactg	L38422
18681	tcgatcataccctaatgcctgtgca	L38422
18682	ataccctaatgcctgtgcaatttaa	L38422
18683	taatgcctgtgcaatttaatgttca	L38422
18684	atgttcacgctaaaaagcagtagga	L38422
18685	ttcattgctctttctaactggaacc	L38422
18686	gctcactagtgaaccccagggattt	L38422
18687	gggatttcatcagctgacggtgcct	L38422
18688	tcatcagctgacggtgccttgcttc	L38422
18689	cttccaccagcaataaagtccgcat	L38422
18690	ccagcaataaagtccgcataacttc	L38422
18691	cgctccgagcaatttactggtacag	L38422
18692	taaagtccgcataacttctgcaaca	L38422
18693	gatttataacagcctccaataagat	L38422
18694	taacagcctccaataagattatatt	L38422
18695	ttatattggggcctgcacacagcga	L38422
18696	agggagcctacgcactagatatgct	L38422
18697	cctacgcactagatatgctatttca	L38422
18698	atatgctatttcaaaacttcgatca	L38422
18699	tatttcaaaacttcgatcataccct	L38422
18700	gtcgatactcaccttcacgcgatcg	W62304

SEQ ID NO:	sequence	DBAxnID
61237	ttcagcatgtgctatggcagaacca	X63162
61238	tggatgacaccagtcaacgtcaagt	X63162
61239	acaccagtcaacgtcaagttgtcaa	X63162
61240	gcttacactgtgtcccaaggagagg	X63162
61241	aggcactcctgggccacaaacaagt	X63162
61242	tcctgggccacaaacaagtgtctga	X63162
61243	gccacaaacaagtgtctgaactgtg	X63162
61244	tgtctgaactgtgtagatggtttgt	X63162
61245	aggactttccaggtgttgactcaag	X63162
61246	ttccaggtgttgactcaagggtgga	X63162
61247	ttgggtttctctacttcttcagtgg	X63162
61248	ttctctacttcttcagtggatcttc	X63162
61249	acttcttcagtggatcttcgcagtt	X63162
61250	tcagtggatcttcgcagttggaatt	X63162
61251	gatcttcgcagttggaatttgaccc	X63162
61252	aagtgacccacatattgaagagcaa	X63162
61253	gggctcaaatccacacaaagagcaa	W87261
61254	ctcaaatccacacaaagagcaaggt	W87261
61255	cagcagtcagcaaccatgaggctaa	W87261
61256	gcaaccatgaggctaacctccactt	W87261
61257	acctccacttcctgctgtgtttcct	W87261
61258	acttcctgctgtgtttccttctcac	W87261
61259	gtttccttctcacctgtaagccttg	W87261
61260	ttctcacctgtaagccttgccccta	W87261
61261	cctgtaagccttgcccctagaaatg	W87261
61262	gtaagccttgcccctagaaatgagg	W87261
61263	agccttgcccctagaaatgagggct	W87261
61264	gtgatctgagctccctggctctacc	W87261
61265	tccacacaaagagcaaggtgacatt	W87261
61266	tgagatcctggcgctggacgcagtc	W87261
61267	cctggcgctggacgcagtctagtat	W87261
61268	ctagtatggtccatcccacctgctt	W87261
61269	actgtgagcccagaagctccatcct	W87261
61270	ccagaagctccatcctttcagcagt	W87261
61271	gaagctccatcctttcagcagtcag	W87261
61272	gctccatcctttcagcagtcagcaa	W87261
61273	attacctatgtgtaaaagtggacag	W89293
61274	gacaggactccgaaaggcacacagg	W89293
61275	caggtacctgttgatgttgttgaga	W89293
61276	ggtacctgttgatgttgttgagatg	W89293
61277	gtacctgttgatgttgttgagatga	W89293
61278	tacctgttgatgttgttgagatgag	W89293
61279	agagaaaccatcatagcctttgcct	W89293
61280	gagaaaccatcatagcctttgcctg	W89293
61281	gaaaccatcatagcctttgcctggg	W89293
61282	aaaccatcatagcctttgcctggga	W89293
61283	aaccatcatagcctttgcctgggaa	W89293
61284	acaggactccgaaaggcacacaggg	W89293
61285	aggactccgaaaggcacacagggag	W89293
61286	ggactccgaaaggcacacagggagt	W89293
61287	gactccgaaaggcacacagggagtt	W89293
61288	actccgaaaggcacacagggagttg	W89293
61289	ctccgaaaggcacacagggagttgt	W89293
61290	aagcaggtacctgttgatgttgttg	W89293
61291	gcaggtacctgttgatgttgttgag	W89293
61292	gagcattggcggttcgtgcttcagc	X81464
61293	gtcttcctggcagcatttgtggtat	X81464
61294	tctggttttcgtcttctcaatctga	X81464
61295	cttctcaatctgaaaaatgactccc	X81464
61296	aagcgctacgacggcttgaagtacg	X81464
61297	gtctatgaccttttccatccgaggct	X81464
61298	gacctttccatccgaggcttcaata	X81464
61299	tccatccgaggcttcaataaggaga	X81464
61300	tcttcctgtagttagcacaccagtt	X81464
61301	tgtagttagcacaccagttgctaaa	X81464
61302	tagcacaccagttgctaaacaactg	X81464
61303	tattttcgtaaccagctgtgtgctg	X81464
61304	gaaacagagaccctggtgacccgag	X81464

SEQ ID NO:	sequence	DBAxnID
103841	tgaacttccaggggcctttgaggca	AA170018
103842	tccaggggcctttgaggcagcaggt	AA170018
103843	cccatgctccatgatgcttggtccg	AA170018
103844	tgctccatgatgcttggtccgactg	AA170018
103845	ccatgatgcttggtccgactgttgt	AA170018
103846	atgatgcttggtccgactgttgtct	AA170018
103847	tggtccgactgttgtcttttctatc	AA170018
103848	gtccgactgttgtcttttctatcct	AA170018
103849	ttttctatccttaggctatatacaa	AA170018
103850	ttctatccttaggctatatacaaac	AA170018
103851	aggaattggcctgacggaggcaatc	AA170069
103852	gaattggcctgacggaggcaatcga	AA170069
103853	gaacttagccattgtgtccaatgca	AA170069
103854	acttagccattgtgtccaatgcaac	AA170069
103855	agccattgtgtccaatgcaactgcc	AA170069
103856	ccattgtgtccaatgcaactgcctt	AA170069
103857	attgtgtccaatgcaactgccttga	AA170069
103858	tgtgtccaatgcaactgccttgaat	AA170069
103859	tgtccaatgcaactgccttgaattg	AA170069
103860	caatgcaactgccttgaattggaac	AA170069
103861	atgcaactgccttgaattggaacac	AA170069
103862	gcaactgccttgaattggaacaccg	AA170069
103863	attggcctgacggaggcaatcgaca	AA170069
103864	caatcgacaagaccaggccagacta	AA170069
103865	atcgacaagaccaggccagactaat	AA170069
103866	cgacaagaccaggccagactaatgg	AA170069
103867	aagaccaggccagactaatggggca	AA170069
103868	gtcttgcaagagggacctgaactta	AA170069
103869	acctgaacttagccattgtgtccaa	AA170069
103870	ctgaacttagccattgtgtccaatg	AA170069
103871	ttaaaatcaagatctctgctcctca	AA170112
103872	aatcaagatctctgctcctcaggaa	AA170112
103873	aggaacggctgtactccacgtggat	AA170112
103874	acggctgtactccacgtggattgga	AA170112
103875	gtactccacgtggattggaggctcc	AA170112
103876	actccacgtggattggaggctccat	AA170112
103877	ctcgcctcactggataccttcaaga	AA170112
103878	cgcctcactggataccttcaagatg	AA170112
103879	cctcactggataccttcaagatgat	AA170112
103880	tcactggataccttcaagatgatgt	AA170112
103881	actggataccttcaagatgatgtgg	AA170112
103882	gataccttcaagatgatgtgggtat	AA170112
103883	tcaagatctctgctcctcaggaacg	AA170112
103884	cgcgattcatcgcaaaaccttctaa	AA170112
103885	aagatctctgctcctcaggaacggc	AA170112
103886	gatctctgctcctcaggaacggctg	AA170112
103887	tctctgctcctcaggaacggctgta	AA170112
103888	tctgctcctcaggaacggctgtact	AA170112
103889	tgctcctcaggaacggctgtactcc	AA170112
103890	ctcctcaggaacggctgtactccac	AA170112
103891	cctcaggaacggctgtactccacgt	AA170112
103892	ctgaccaagttcacaggggtcatta	AA169992
103893	ctctggctgagtgactgggtgacat	AA169992
103894	gtgctcaatgagctgccagtcccca	AA169992
103895	ctcaatgagctgccagtccccatgg	AA169992
103896	aatgagctgccagtccccatggtgg	AA169992
103897	gtggcccgctacattcgcataaacc	AA169992
103898	cgctacattcgcataaaccctcagt	AA169992
103899	tacattcgcataaaccctcagtcct	AA169992
103900	attcgcataaaccctcagtcctggt	AA169992
103901	gagcatctgcatgaggatggagatc	AA169992
103902	gcatctgcatgaggatggagatctt	AA169992
103903	catctgcatgaggatggagatcttg	AA169992
103904	gtgacatcctataaagtcatggtga	AA169992
103905	acatcctataaagtcatggtgagca	AA169992
103906	aatgacagccacacatgggttactg	AA169992
103907	gacagccacacatgggttactgtga	AA169992
103908	agccacacatgggttactgtgaaga	AA169992

TABLE 1

SEQ ID NO	sequence	DBAxnID
18701	actcaccttcacgcgatcgaagaga	W62304
18702	ccacatatgcacaacctactacttg	W62304
18703	cacaacctactacttgcatgaatac	W62304
18704	aacctactacttgcatgaatacgtg	W62304
18705	ctactacttgcatgaatacgtgcgt	W62304
18706	atacgtgcgtcgcattgaaccggac	W62304
18707	cattgaaccggacgcccatgtacca	W62304
18708	tgaaccggacgcccatgtaccaggg	W62304
18709	ggacgcccatgtaccagggagcagc	W62304
18710	cgcccatgtaccagggagcagcaga	W62304
18711	ccatgtaccagggagcagcagatga	W62304
18712	caccttcacgcgatcgaagagagac	W62304
18713	agactgactcagagtctgagactac	W62304
18714	agtctgagactactcaaccaggacc	W62304
18715	ctgagactactcaaccaggaccctc	W62304
18716	ctcgctcaagagcttgctccacata	W62304
18717	gagcttgctccacatatgcacaacc	W62304
18718	cttgctccacatatgcacaacctac	W62304
18719	gctccacatatgcacaacctactac	W62304
18720	gcatattcaccacctagcctatgac	W62273
18721	tcaccacctagcctatgacacaact	W62273
18722	agctctacatcaaaatgtagatgag	W62273
18723	atttgaggcacttcatggggtatag	W62273
18724	tgaggcacttcatggggtatagaac	W62273
18725	agtgctactggtctcactttcagag	W62273
18726	gctactggtctcactttcagagaag	W62273
18727	actggtctcactttcagagaagatc	W62273
18728	tcaacttcatctttgtcatacttca	W62273
18729	acttcatctttgtcatacttcatgg	W62273
18730	tcatctttgtcatacttcatggctc	W62273
18731	tctttgtcatacttcatggctctat	W62273
18732	cctagcctatgacacaactcattaa	W62273
18733	ttgtcatacttcatggctctatgaa	W62273
18734	agcctatgacacaactcattaatta	W62273
18735	attataacatcgcagtctccaagga	W62273
18736	ataacatcgcagtctccaaggagct	W62273
18737	acatcgcagtctccaaggagctcta	W62273
18738	cagtctccaaggagctctacatcaa	W62273
18739	tctccaaggagctctacatcaaaat	W62273
18740	ccaaggagctctacatcaaaatgta	W62273
18741	agacagacagctctgacaagaagtt	W62320
18742	gacagacagctctgacaagaagttg	W62320
18743	atcaagtactatccagagcaagtag	W62320
18744	ccgagctaaagtccatctggcacca	W62320
18745	cgagctaaagtccatctggcaccac	W62320
18746	gagctaaagtccatctggcaccacg	W62320
18747	agctaaagtccatctggcaccacgg	W62320
18748	gctaaagtccatctggcaccacggt	W62320
18749	ctaaagtccatctggcaccacggtc	W62320
18750	taaagtccatctggcaccacggtcc	W62320
18751	aaagtccatctggcaccacggtcct	W62320
18752	acagacagctctgacaagaagttgc	W62320
18753	cagacagctctgacaagaagttgca	W62320
18754	agacagctctgacaagaagttgcag	W62320
18755	agcttatcaagtactatccagagca	W62320
18756	gcttatcaagtactatccagagcaa	W62320
18757	cttatcaagtactatccagagcaag	W62320
18758	ttatcaagtactatccagagcaagt	W62320
18759	tatcaagtactatccagagcaagta	W62320
18760	gtttcggtatcgcccaagcttcgtg	M57960
18761	gtctgacaagagaccccagacggtt	M57960
18762	tgagctcctggctaagaatccacct	M57960
18763	cctggctaagaatccacctgagaca	M57960
18764	taagaatccacctgagacagaccct	M57960
18765	tccacctgagacagaccctactgaa	M57960
18766	tgagacagaccctactgaacacaca	M57960
18767	agaccctactgaacacacagaacac	M57960
18768	tctcaggaccagcggagcgaaaatg	M57960
61305	acccgagaggctgttacagagattc	X81464
61306	tttcatctggatgtggaagattatc	X81464
61307	ttaattcttgccagtgaactgtcga	X81464
61308	tctgtcaacagtgtcactgctggag	X81464
61309	gtcactgctggagactactctcggc	X81464
61310	cacatttctactttcatcaatgagc	X81464
61311	tctactttcatcaatgagctggatt	X81464
61312	ggcataacctgtccccgataccatt	W89958
61313	gcataacctgtccccgataccatta	W89958
61314	taccattaatgactccaaccacaag	W89958
61315	accattaatgactccaaccacaagg	W89958
61316	ccattaatgactccaaccacaaggc	W89958
61317	cattaatgactccaaccacaaggcc	W89958
61318	attaatgactccaaccacaaggcca	W89958
61319	ttaatgactccaaccacaaggccat	W89958
61320	taatgactccaaccacaaggccatt	W89958
61321	aatgactccaaccacaaggccattg	W89958
61322	atgactccaaccacaaggccattgc	W89958
61323	tgactccaaccacaaggccattgcc	W89958
61324	cctgtccccgataccattaatgact	W89958
61325	gactccaaccacaaggccattgcct	W89958
61326	ctgtccccgataccattaatgactc	W89958
61327	tgtccccgataccattaatgactcc	W89958
61328	gtccccgataccattaatgactcca	W89958
61329	tccccgataccattaatgactccaa	W89958
61330	cgataccattaatgactccaaccac	W89958
61331	gataccattaatgactccaaccaca	W89958
61332	ataccattaatgactccaaccacaa	W89958
61333	ttataaaagcagccatgttgattag	X03687
61334	gttacaacaaatcacatgacattat	X03687
61335	tctgctcttgcatatttgccaatgt	X03687
61336	tatttgccaatgtgttccctagctc	X03687
61337	tgttccctagctcagttctctggac	X03687
61338	ctagctcagttctctggacatgaaa	X03687
61339	catgaaactgcctgggccacagttc	X03687
61340	taattctcgtatcttagaggcctgc	X03687
61341	tcgtatcttagaggcctgcgaggaa	X03687
61342	ttctgtgcatcttatcaaatgttgt	X03687
61343	acagcattgttacaccacttatcag	X03687
61344	caccacttatcagccttctgtgtat	X03687
61345	attatctttctgaaactgctctcat	X03687
61346	tttctgaaactgctctcattttgct	X03687
61347	ctctcattttgctttcagcgtatta	X03687
61348	gtgcaaggccaccacaaagtcacag	X03687
61349	cacaaagtcacagtccttgccacac	X03687
61350	ttcacttgctggaacacatctgctc	X03687
61351	tgctggaacacatctgctcttgcat	X03687
61352	aacacatctgctcttgcatatttgc	X03687
61353	cagtacagcgcgaggcagccgtgcg	W89733
61354	agtacagcgcgaggcagccgtgcga	W89733
61355	tccgtatcttaattcaatgttccgt	W89733
61356	tatcttaattcaatgttccgttcag	W89733
61357	atcttaattcaatgttccgttcaga	W89733
61358	cttaattcaatgttccgttcagaag	W89733
61359	ttaattcaatgttccgttcagaagg	W89733
61360	taattcaatgttccgttcagaagga	W89733
61361	ttcaatgttccgttcagaaggagat	W89733
61362	tcaatgttccgttcagaaggagatt	W89733
61363	atgttccgttcagaaggagattttg	W89733
61364	tgttccgttcagaaggagattttgg	W89733
61365	tgttcgagccattgctcaagaccgg	W89733
61366	gttcgagccattgctcaagaccggg	W89733
61367	ttcgagccattgctcaagaccgggg	W89733
61368	ttgtggccctccgtatcttaattca	W89733
61369	gtggccctccgtatcttaattcaat	W89733
61370	ggccctccgtatcttaattcaatgt	W89733
61371	gccctccgtatcttaattcaatgtt	W89733
61372	ctccgtatcttaattcaatgttccg	W89733
103909	gagattcctgtgctcaatgagctgc	AA169992
103910	attcctgtgctcaatgagctgccag	AA169992
103911	cctgtgctcaatgagctgccagtcc	AA169992
103912	agtacctgggtgttagcaccttgag	AA170169
103913	acctgggtgttagcaccttgagtat	AA170169
103914	taaccgaattctggtggctgctgga	AA170169
103915	aattctggtggctgctggacactac	AA170169
103916	tctggtggctgctggacactacatt	AA170169
103917	ggctgctggacactacattgaagac	AA170169
103918	tgctggacactacattgaagactcg	AA170169
103919	acactacattgaagactcggacttt	AA170169
103920	ctcggacttttctagtgcgcgaatg	AA170169
103921	ggacttttctagtgcgcgaatgagt	AA170169
103922	cttttctagtgcgcgaatgagtgac	AA170169
103923	ttctagtgcgcgaatgagtgacact	AA170169
103924	gtgttagcaccttgagtattatgca	AA170169
103925	gtattatgcaccgcaacatataggc	AA170169
103926	ttatgcaccgcaacatataggccac	AA170169
103927	tgcaccgcaacatataggccactga	AA170169
103928	gcaacatataggccactgataatgg	AA170169
103929	tataggccactgataatggaaatag	AA170169
103930	ggacgctaaccgaattctggtggct	AA170169
103931	cgctaaccgaattctggtggctgct	AA170169
103932	caagactaagaaccttcgtctgctc	W29506
103933	ccttcgtctgctcattctggtgagc	W29506
103934	accccaggacttcgagtacatctgg	W29506
103935	catctggcagaattttgtggagcaa	W29506
103936	tgaatccaaggcctttgagccctgg	W29506
103937	atccaaggcctttgagccctgggag	W29506
103938	ggcctttgagccctgggaggacatt	W29506
103939	ctttgagccctgggaggacattcag	W29506
103940	tgagccctgggaggacattcaggag	W29506
103941	ggagaacttcctatactatgaggag	W29506
103942	gaacttcctatactatgaggagaag	W29506
103943	ggcaacagagctcggccttccagtt	W29506
103944	tcgtctgctcattctggtgagccgg	W29506
103945	tctgctcattctggtgagccggctc	W29506
103946	tctggtgagccggctcttcatgtgg	W29506
103947	ggtccaggccgctctgaaaaagctg	W29506
103948	cggctgcaaacttcgcatcatgaaa	W29506
103949	ctgcaaacttcgcatcatgaaaccc	W29506
103950	caaacttcgcatcatgaaaccccag	W29506
103951	catcatgaaaccccaggacttcgag	W29506
103952	aggccatgacacatttccctgcatc	AA170173
103953	atttccctgcatctcctttctggtc	AA170173
103954	tcctattgtggataccttcaaagtg	AA170173
103955	actcactgttatctgttgcctcctg	AA170173
103956	cactgttatctgttgcctcctggca	AA170173
103957	attcgtgcagcgctctggaaattac	AA170173
103958	cgtgcagcgctctggaaattacttc	AA170173
103959	cttcgtgacaatgtttgacgattat	AA170173
103960	cgattattctgctacattgcctctg	AA170173
103961	tgctacattgcctctgctaattgtg	AA170173
103962	tacattgcctctgctaattgtggtc	AA170173
103963	gcctctgctaattgtggtcatcttg	AA170173
103964	tccctgcatctcctttctggtcagt	AA170173
103965	tgatgtttttcctcatgttgataaa	AA170173
103966	ttttcctcatgttgataaatctcgg	AA170173
103967	taaatctcggcctcgcagcatgttt	AA170173
103968	atctcggcctcgcagcatgtttgga	AA170173
103969	gcctcgcagcatgtttggaacaatt	AA170173
103970	gatcatcactcctattgtggatacc	AA170173
103971	cactcctattgtggataccttcaaa	AA170173
103972	atatcatttcatcatgtgttctata	J00359
103973	tatcatttcatcatgtgttctataa	J00359
103974	tacatttgttgtcatttggcatcag	J00359
103975	acatttgttgtcatttggcatcagt	J00359
103976	catttgttgtcatttggcatcagtg	J00359

TABLE 1

SEQ ID NO	sequence	DBAxnID
18769	ggagctattccacaaaggatgacta	M57960
18770	attccacaaaggatgactattcacc	M57960
18771	atgactattcaccaaagatggatct	M57960
18772	accccagacggttgagggtgatcat	M57960
18773	tgaaatcttctttgtattcggggct	M57960
18774	ggaaaccaacctcagcaagatggtg	M57960
18775	caacctcagcaagatggtgatgaaa	M57960
18776	tctacagattggagccactacccag	M57960
18777	gattggagccactacccagcaagcc	M57960
18778	tacccagcaagcccagagactgaaa	M57960
18779	gcaagcccagagactgaaagcagag	M57960
18780	tgacaagcacctatactggacagca	W62326
18781	acaagcacctatactggacagcaac	W62326
18782	aggactcgagacaactctcaatggg	W62326
18783	gactcgagacaactctcaatgggct	W62326
18784	ctcgagacaactctcaatgggctac	W62326
18785	cgagacaactctcaatgggctacat	W62326
18786	agacaactctcaatgggctacatga	W62326
18787	acaactctcaatgggctacatgatg	W62326
18788	aactctcaatgggctacatgatggc	W62326
18789	ctctcaatgggctacatgatggcca	W62326
18790	ctgaccacccatcgtggagaccctg	W62326
18791	gaccacccatcgtggagaccctgcg	W62326
18792	aagcacctatactggacagcaacat	W62326
18793	gcacctatactggacagcaacatgg	W62326
18794	acctatactggacagcaacatggaa	W62326
18795	ctatactggacagcaacatggaacg	W62326
18796	atcatgaaggccaggactcgagaca	W62326
18797	catgaaggccaggactcgagacaac	W62326
18798	aaggccaggactcgagacaactctc	W62326
18799	ccaggactcgagacaactctcaatg	W62326
18800	atatgcagatccgaaactggacaag	W62126
18801	tgcagatccgaaactggacaaggag	W62126
18802	agagcagatgccctccagacgaagc	W62126
18803	gcagatgccctccagacgaagctga	W62126
18804	gatgcctagcgagacctgtgagcag	W62126
18805	tagcgagacctgtgagcaggctgag	W62126
18806	cgagacctgtgagcaggctgagatg	W62126
18807	gaaggccagctacactgaaccagat	W62126
18808	ggccagctacactgaaccagatgtg	W62126
18809	cagctacactgaaccagatgtggcc	W62126
18810	agtgccgcattcagctcgtagacta	W62126
18811	gtgccgcattcagctcgtagactag	W62126
18812	agatccgaaactggacaaggagaat	W62126
18813	gaataccatcgaccgcgcggcagac	W62126
18814	taccatcgaccgcgcggcagaccga	W62126
18815	cgcggcagaccgaactgccaaaaag	W62126
18816	ggcagaccgaactgccaaaaaggag	W62126
18817	agaccgaactgccaaaaaggagctg	W62126
18818	gagaccgatgcagcagctggaggaa	W62126
18819	accgatgcagcagctggaggaagag	W62126
18820	tgtcctcattggacttgaggggttg	Y07611
18821	atgactcaggggagccaggctatca	Y07611
18822	agcactcaccattgctgactgtaac	Y07611
18823	caccattgctgactgtaacatctat	Y07611
18824	aaactgatgcttacctcagcactgg	Y07611
18825	aatctcactgtcactgtaagtctgt	Y07611
18826	gccccagagcacacctcctgatgta	Y07611
18827	tgatgtagtctcccttaaaccaatg	Y07611
18828	cttgtcctgagacacataatcacat	Y07611
18829	cacataatcacatctctaaggcctg	Y07611
18830	atcacatctctaaggcctgtttatc	Y07611
18831	tctctaaggcctgtttatcctgaat	Y07611
18832	atctgtatcctgccttatgcggagg	Y07611
18833	atcctgccttatgcggaggtaggca	Y07611
18834	tagggcaccctgtatccatagctat	Y07611
18835	tatccatagctatgtctcaccttct	Y07611
18836	tgtctcaccttctgtcttgaaaagg	Y07611

SEQ ID NO	sequence	DBAxnID
61373	tgaacctggactatgagatgtataa	X57349
61374	aactactgtcatttatgaaggatct	X57349
61375	tggagtatcacttcctgtcgcccta	X57349
61376	cgccctatgtatctccaagagagtc	X57349
61377	atgtatctccaagagagtctccttt	X57349
61378	tccgacatatcttctggggctctgg	X57349
61379	acactctctcagctttagtggagaa	X57349
61380	tcagaaaccagttggccctggctac	X57349
61381	tggccctggctacttggactattca	X57349
61382	tcgcaaatgccctctctggtgacat	X57349
61383	atgccctctctggtgacatttggaa	X57349
61384	tctctggtgacatttggaatattga	X57349
61385	tgaaccagttcaaaacagatatcag	X57349
61386	taagtctacagtggctgtattccgc	X57349
61387	tacagtggctgtattccgctcgtgg	X57349
61388	ggctgtattccgctcgtggagacta	X57349
61389	ctcgtggagactacttccgtgctac	X57349
61390	gagactacttccgtgctacttctag	X57349
61391	gtgctacttctagactaacaactga	X57349
61392	gactaacaactgattttcataatgc	X57349
61393	gggtctcatccagaagcaccggcga	AA138117
61394	gtctcatccagaagcaccggcgacg	AA138117
61395	gcttcggcatctatgaggtaccggc	AA138117
61396	cggcatctatgaggtaccggcagag	AA138117
61397	atctatgaggtaccggcagaggatg	AA138117
61398	agccactcagaccccagaggcaaga	AA138117
61399	ccactcagaccccagaggcaagact	AA138117
61400	actcagaccccagaggcaagacttg	AA138117
61401	tcagaccccagaggcaagacttgga	AA138117
61402	agaccccagaggcaagacttggaat	AA138117
61403	agacgccagctcagccagacttagc	AA138117
61404	acgccagctcagccagacttagcag	AA138117
61405	cagaagcaccggcgacggcagagga	AA138117
61406	gccagctcagccagacttagcagta	AA138117
61407	cgaggacatgcacaccattggcttc	AA138117
61408	aggacatgcacaccattggcttcgg	AA138117
61409	gacatgcacaccattggcttcggca	AA138117
61410	catgcacaccattggcttcggcatc	AA138117
61411	tgcacaccattggcttcggcatcta	AA138117
61412	cacaccattggcttcggcatctatg	AA138117
61413	tggcttcggcatctatgaggtaccg	AA138117
61414	tccccgcaacagccaaaatggtgaa	W08120
61415	ccccgcaacagccaaaatggtgaag	W08120
61416	ctgccaggatgttgctgcagactgt	W08120
61417	tgccaggatgttgctgcagactgtg	W08120
61418	ggatgttgctgcagactgtgaagtc	W08120
61419	gatgttgctgcagactgtgaagtca	W08120
61420	gttgctgcagactgtgaagtcatat	W08120
61421	agtcatatgcatgccgaccttccag	W08120
61422	gtcatatgcatgccgaccttccagt	W08120
61423	atatgcatgccgaccttccagtttt	W08120
61424	atgcatgccgaccttccagttttat	W08120
61425	tgcatgccgaccttccagttttata	W08120
61426	ctctgctacgtggtgtggaccttgc	W08120
61427	tctgctacgtggtgtggaccttgca	W08120
61428	tgctacgtggtgtggaccttgcaaa	W08120
61429	gctacgtggtgtggaccttgcaaaa	W08120
61430	atgatcaagcccttcttccattccc	W08120
61431	cttcttccattccctctgtgacaag	W08120
61432	ttcttccattccctctgtgacaagt	W08120
61433	ttccattccctctgtgacaagtatt	W08120
61434	cgaacggagttcagcctgcgacgtg	W91436
61435	aacggagttcagcctgcgacgtgtg	W91436
61436	gggccccactgctttgagctactga	W91436
61437	ggccccactgctttgagctactgag	W91436
61438	gccccactgctttgagctactgaga	W91436
61439	ccactgctttgagctactgagatga	W91436
61440	cactgctttgagctactgagatgac	W91436

SEQ ID NO	sequence	DBAxnID
103977	atttgttgtcatttggcatcagtga	J00359
103978	tgttgtcatttggcatcagtgagat	J00359
103979	gttgtcatttggcatcagtgagata	J00359
103980	ttgtcatttggcatcagtgagatat	J00359
103981	tgtcatttggcatcagtgagatata	J00359
103982	gtcatttggcatcagtgagatatat	J00359
103983	tcatttggcatcagtgagatatatc	J00359
103984	atcatttcatcatgtgttctataat	J00359
103985	tcatttcatcatgtgttctataata	J00359
103986	catttcatcatgtgttctataatac	J00359
103987	atttcatcatgtgttctataataca	J00359
103988	tttcatcatgtgttctataatacat	J00359
103989	tcatcatgtgttctataatacattt	J00359
103990	aatacatttgttgtcatttggcatc	J00359
103991	atacatttgttgtcatttggcatca	J00359
103992	gggctcctcaaggtctgttgtgaac	AA170223
103993	agtggccccacggtacgttgcattg	AA170223
103994	ggaagtagccagacaccccaagaat	AA170223
103995	agtagccagacaccccaagaatcct	AA170223
103996	agccagacaccccaagaatcctgat	AA170223
103997	cagacaccccaagaatcctgatgtt	AA170223
103998	acaccccaagaatcctgatgttggt	AA170223
103999	ccccaagaatcctgatgttggtttg	AA170223
104000	gaatcctgatgttggtttgaagcct	AA170223
104001	tttcatagaaggggccgatgcagag	AA170223
104002	agagactttctcagagggtgagatg	AA170223
104003	tataaactgcggcaacatcaacatt	AA170223
104004	ggccccacggtacgttgcattgctg	AA170223
104005	aaactgcggcaacatcaacattact	AA170223
104006	cccacggtacgttgcattgctgaag	AA170223
104007	acggtacgttgcattgctgaagaag	AA170223
104008	gtacgttgcattgctgaagaaggaa	AA170223
104009	cgttgcattgctgaagaaggaagtc	AA170223
104010	ggaagtcgtcccagtgaatgtcctg	AA170223
104011	agtcgtcccagtgaatgtcctggat	AA170223
104012	cccagtgaatgtcctggatgcgcag	AA170223
104013	gccaataaactgctttgtgaagtgt	AA170547
104014	caataaactgctttgtgaagtgtgt	AA170547
104015	ctgtcctcactctgcatttaaagcg	AA170547
104016	gtcctcactctgcatttaaagcgat	AA170547
104017	cctcactctgcatttaaagcgattc	AA170547
104018	tcactctgcatttaaagcgattcca	AA170547
104019	catttaaagcgattccagcaggctg	AA170547
104020	tttaaagcgattccagcaggctggt	AA170547
104021	taaagcgattccagcaggctggttt	AA170547
104022	aagcgattccagcaggctggttta	AA170547
104023	gcgattccagcaggctggttttaac	AA170547
104024	gattccagcaggctggttttaacct	AA170547
104025	aaactgctttgtgaagtgtgttcaa	AA170547
104026	acatgtttacaccaatgccaagaag	AA170547
104027	atgtttacaccaatgccaagaagca	AA170547
104028	gtttacaccaatgccaagaagcaga	AA170547
104029	ttacaccaatgccaagaagcagatg	AA170547
104030	acaccaatgccaagaagcagatgct	AA170547
104031	accaatgccaagaagcagatgctgg	AA170547
104032	tcctgtcctcactctgcatttaaag	AA170547
104033	cccagctgacatctggagcacagca	AA170153
104034	agctgacatctggagcacagcatgc	AA170153
104035	ctggtgactacctatttgagcccca	AA170153
104036	atgaggaccacattgctcatatcgt	AA170153
104037	aggaccacattgctcatatcgtgga	AA170153
104038	ctcatatcgtggaacttctaggaga	AA170153
104039	atatcgtggaacttctaggagacat	AA170153
104040	aacttctaggagacatccctccagc	AA170153
104041	ttctaggagacatccctccagcttt	AA170153
104042	cagcttttgccctctcaggccgata	AA170153
104043	tctcaggccgatattcacgggagtt	AA170153
104044	caggccgatattcacgggagttctt	AA170153

TABLE 1

SEQ ID NO	sequence	DBAxnID
18837	gggcacacatgcagccactgtcagc	Y07611
18838	acatgcagccactgtcagcttagtc	Y07611
18839	taaacactggatagcactcaccatt	Y07611
18840	cagcttcgactacgaggattatccc	X53953
18841	caagggcaccttcaaggactatgtg	X53953
18842	ctttatcagctggacaggagatggc	X53953
18843	gctttctgacccagatgaggtggcc	X53953
18844	ccgtggccttcgctactattatgac	X53953
18845	gcgctacgtataccgctttgtgtgc	X53953
18846	cgtataccgctttgtgtgcgacctg	X53953
18847	ccgctttgtgtgcgacctgcagagc	X53953
18848	cctgctgggatacacccctgaagag	X53953
18849	gggatacacccctgaagagctgcac	X53953
18850	gctgcacgccatgctggatgtaaag	X53953
18851	tgctgactagtcatggacagacgcg	X53953
18852	caccttcaaggactatgtgcgtgac	X53953
18853	ctgctgagacctttcaagagcttaa	X53953
18854	ccgtgctgacctcaacaaggacaag	X53953
18855	tgacctcaacaaggacaagcctgtc	X53953
18856	ctacacaggaagtgggccgatccag	X53953
18857	tcttctggaattactcactgataag	X53953
18858	ggaattactcactgataagtcttgt	X53953
18859	gtcttgtcagtcctttatcagctgg	X53953
18860	tcagtcctttatcagctggacagga	X53953
18861	atcaaagcattctcccgggataatc	AA000276
18862	gcattctcccgggataatctcagga	AA000276
18863	gacctgcaagttggcgttattaagc	AA000276
18864	gttattaagccctggttgcttctgg	AA000276
18865	ccctggttgcttctgggtcacagg	AA000276
18866	tggttgcttctggggtcacaggatg	AA000276
18867	ttgcttctggggtcacaggatgctg	AA000276
18868	gctcatgacctggagctactgagaa	AA000276
18869	catgacctggagctactgagaaagc	AA000276
18870	gtgactcatattctcaatgttgcat	AA000276
18871	actcatattctcaatgttgcatatg	AA000276
18872	catattctcaatgttgcatatggag	AA000276
18873	ttctcccgggataatctcaggaagc	AA000276
18874	tgcaccagggtgaccacgctaactg	AA000276
18875	gaagatgccacagttcatgttgtgg	AA000276
18876	gatgccacagttcatgttgtggaga	AA000276
18877	tatgtgcaggaccttaccttggacc	AA000276
18878	gtgcaggaccttaccttggacctgc	AA000276
18879	gaccttaccttggacctgcaagttg	AA000276
18880	ttggacctgcaagttggcgttatta	AA000276
18881	ctaagccgccagccaaaatgtgtaa	W65084
18882	tggcagctctgcgcactcatgcctg	W65084
18883	ccagaagccagactctgctgttgac	W65084
18884	ctctgctgttgaccttgtcattcca	W65084
18885	tgttgaccttgtcattccatacaat	W65084
18886	tgaccttgtcattccatacaatgag	W65084
18887	ccttgtcattccatacaatgagaag	W65084
18888	tgccaagcgacacaagccctcactg	W65084
18889	gcgacacaagccctcactggaggag	W65084
18890	ccagtccctggacaagcttctccag	W65084
18891	ggacaagcttctccagaacagctat	W65084
18892	gcttctccagaacagctatggattt	W65084
18893	cagctctgcgcactcatgcctggaa	W65084
18894	tggatttgccagcttcaaaagtttc	W65084
18895	ctctgcgcactcatgcctggaaagg	W65084
18896	gcactcatgcctggaaagggccaag	W65084
18897	ctcatgcctggaaagggccaaggag	W65084
18898	atgcctggaaagggccaaggagatc	W65084
18899	gggaattctcctccagaagccagac	W65084
18900	tctcctccagaagccagactctgct	W65084
18901	cctccagaagccagactctgctgtt	W65084
18902	catcattgagcgagtgcagcctacc	AA048304
18903	cattgagcgagtgcagcctacctgg	AA048304
18904	cgcatcctgcacacgtactacaagt	AA048304

SEQ ID NO:	sequence	DBAxnID
61441	ctgctttgagctactgagatgactg	W91436
61442	agattgtatgcagtgccaaggacac	W91436
61443	attgtatgcagtgccaaggacacag	W91436
61444	tgtatgcagtgccaaggacacagcc	W91436
61445	tatgcagtgccaaggacacagccca	W91436
61446	cggagttcagcctgcgacgtgtgtc	W91436
61447	ggagttcagcctgcgacgtgtgtcc	W91436
61448	ttcagcctgcgacgtgtgtccagag	W91436
61449	acctgggtcctgagcgcatcgggcc	W91436
61450	ctgggtcctgagcgcatcgggcccc	W91436
61451	catcgggccccactgctttgagcta	W91436
61452	atcgggccccactgctttgagctac	W91436
61453	tcgggccccactgctttgagctact	W91436
61454	atgacatcatgctgatcaaactggc	X04574
61455	tgatcaaactggcttcccctgtgac	X04574
61456	gtgttgatgccccagtgctgcctca	X04574
61457	cagtgctgcctcaggctgactgtga	X04574
61458	tgcctcaggctgactgtgaggcctc	X04574
61459	atggctgtgcccagccagatgctcc	X04574
61460	agccagatgctcctggtgtatacac	X04574
61461	caattgctgacaactagagaaccct	X04574
61462	ctgacaactagagaaccctagtctc	X04574
61463	gaaccctagtctctcttcaatcagt	X04574
61464	tagtctctcttcaatcagtattatc	X04574
61465	ctcttcaatcagtattatcaataaa	X04574
61466	atgccagagtggcctctgtacctct	X04574
61467	gagtggcctctgtacctctgcccag	X04574
61468	gctcctgtgcacctgcaggcactca	X04574
61469	ggggcaacaccctcagcaatggtgt	X04574
61470	acaccctcagcaatggtgtgaacaa	X04574
61471	tgaacaacccagacctgctccagtg	X04574
61472	acccagacctgctccagtgtgttga	X04574
61473	acctgctccagtgtgttgatgcccc	X04574
61474	ctccagctgccggctgatgtgaatc	W90986
61475	gatgtgaatccttctgtggccagtg	W90986
61476	gaatgttcccgtatggtagatttca	W90986
61477	caccacgtccgactcattgttgtca	W90986
61478	gtccgactcattgttgtcatctctc	W90986
61479	gtcatctctctttaggaagacgcca	W90986
61480	gaagacgccaacatagggctgtgca	W90986
61481	tgcaagtcggactttccttctcagg	W90986
61482	tttccttctcaggagctcaaccaac	W90986
61483	ccttctcaggagctcaaccaacttc	W90986
61484	tttaagctccacgatcttgataaag	W90986
61485	aagctccacgatcttgataaagcgc	W90986
61486	gtgaatccttctgtggccagtgaca	W90986
61487	agtgacaatcattcgcaacttgtct	W90986
61488	tcgcaacttgtctccgaggtcctgc	W90986
61489	caacttgtctccgaggtcctgcatc	W90986
61490	tccgaggtcctgcatctcatgaatc	W90986
61491	gaggtcctgcatctcatgaatctga	W90986
61492	catctcatgaatctgagcgaatgtt	W90986
61493	ctcatgaatctgagcgaatgttccc	W90986
61494	ttttatccaagtggctggaggaagc	D12885
61495	ctgagcaggtcggagctttgtacaa	D12885
61496	gcctgttctctatttccaaggaaca	D12885
61497	tttccaaggaacatctagagtgcag	D12885
61498	ttagtcacttgctcctactaggtat	D12885
61499	acttgctcctactaggtatgtataa	D12885
61500	tgtataaaccatgctaaaggaacgg	D12885
61501	agtgaacaaccgctacaaccatgaa	D12885
61502	caaccgctacaaccatgaagggcat	D12885
61503	ctacaaccatgaagggcatagtttt	D12885
61504	cctgaggttccttaacaatgtgtca	D12885
61505	gttccttaacaatgtgtcaatgttg	D12885
61506	caaccatcagtgtagctgctaagga	D12885
61507	tagctgctaaggatgctctggagag	D12885
61508	gacacttcggggagcacagcaagcc	D12885

SEQ ID NO	sequence	DBAxnID
104045	ttagtttagctgcctccatgcctag	AA170153
104046	tcttcaaccgtagaggagagctgcg	AA170153
104047	gtttagctgcctccatgcctaggat	AA170153
104048	tagctgcctccatgcctaggatcag	AA170153
104049	cctccatgcctaggatcagacacct	AA170153
104050	ccatgcctaggatcagacacctgcc	AA170153
104051	ggatcagacacctgccacagcctca	AA170153
104052	ttgagctggccactggtgactacct	AA170153
104053	agctggccactggtgactacctatt	AA170153
104054	gcgcctgcgtactaagacccgtgtg	AA170375
104055	gcctgcgtactaagacccgtgtgca	AA170375
104056	tcggagctccttaaatggcagatga	AA170375
104057	agctccttaaatggcagatgatttg	AA170375
104058	ccaacttcccaatgcagtgctcagc	AA170375
104059	aacttcccaatgcagtgctcagcat	AA170375
104060	aatgcagtgctcagcattacgtaag	AA170375
104061	tgcagtgctcagcattacgtaagaa	AA170375
104062	cagtgctcagcattacgtaagaaat	AA170375
104063	gtgctcagcattacgtaagaaatgg	AA170375
104064	tgtgctcaaaaggccggccaatgta	AA170375
104065	ctcaaaaggccggccaatgtaagat	AA170375
104066	ctgcgtactaagacccgtgtgcagc	AA170375
104067	tcaaaaggccggccaatgtaagatc	AA170375
104068	gcgtactaagacccgtgtgcagcag	AA170375
104069	gtactaagacccgtgtgcagcagcg	AA170375
104070	actaagacccgtgtgcagcagcggc	AA170375
104071	taagacccgtgtgcagcagcggcgg	AA170375
104072	gttcgccgagttggaatcggagctc	AA170375
104073	tcgccgagttggaatcggagctcct	AA170375
104074	aatcggagctccttaaatggcagat	AA170375
104075	gatctcttaataacttccgggctga	AA170383
104076	ctcttaataacttccgggctgagca	AA170383
104077	tgatgactgaagtggcctggactaa	AA170383
104078	ttaaggccttcatacctcagctgct	AA170383
104079	aggccttcatacctcagctgctgtc	AA170383
104080	tcatacctcagctgctgtcacggct	AA170383
104081	ctcagctgctgtcacggctgcatat	AA170383
104082	tgctgtcacggctgcatattgaagc	AA170383
104083	atattgaagcacttctccatggaaa	AA170383
104084	ttgaagcacttctccatggaaacat	AA170383
104085	cacttctccatggaaacataaccaa	AA170383
104086	ttctccatggaaacataaccaagca	AA170383
104087	acttccgggctgagcagcctcacca	AA170383
104088	gaaacataaccaagcaggctgcctt	AA170383
104089	ctgagcagcctcaccagcatgccat	AA170383
104090	agcctcaccagcatgccatgtacta	AA170383
104091	accagcatgccatgtactacctccg	AA170383
104092	agcatgccatgtactacctccgctt	AA170383
104093	tgtactacctccgcttgctgatgac	AA170383
104094	actacctccgcttgctgatgactga	AA170383
104095	acctccgcttgctgatgactgaagt	AA170383
104096	aacgccagcgcccaatctgagcaat	W09217
104097	cgccagcgcccaatctgagcaatct	W09217
104098	agactactactgaggagcagagtca	W09217
104099	gactactactgaggagcagagtcaa	W09217
104100	actactactgaggagcagagtcaaa	W09217
104101	agagtcaaacagctcaggcaagaag	W09217
104102	gagtcaaacagctcaggcaagaagt	W09217
104103	tcaaacagctcaggcaagaagtgtc	W09217
104104	caaacagctcaggcaagaagtgtct	W09217
104105	gccagcgcccaatctgagcaatctg	W09217
104106	ccagcgcccaatctgagcaatctgc	W09217
104107	cagcgcccaatctgagcaatctgca	W09217
104108	agcgcccaatctgagcaatctgcag	W09217
104109	gcgcccaatctgagcaatctgcaga	W09217
104110	cgcccaatctgagcaatctgcagac	W09217
104111	gcccaatctgagcaatctgcagact	W09217
104112	cccaatctgagcaatctgcagacta	W09217

TABLE 1

SEQ ID NO	sequence	DBAxnID
18905	atcctgcacacgtactacaagtttg	AA048304
18906	cacacgtactacaagtttgactaca	AA048304
18907	aagtttgactacaaggcccatcagc	AA048304
18908	tttgactacaaggcccatcagcggc	AA048304
18909	catcagcggcacgttactcctcctg	AA048304
18910	cggcacgttactcctcctgaaggat	AA048304
18911	cacgttactcctcctgaaggatcct	AA048304
18912	gaaggatcctcaaagtctgagcaag	AA048304
18913	gactcagctgtgctaatggaaagac	AA048304
18914	agtgcagcctacctggaggagaaag	AA048304
18915	gcagcctacctggaggagaaaggta	AA048304
18916	ggtaccactgaggagatctgccaga	AA048304
18917	gagatctgccagatctacttaaggc	AA048304
18918	atctgccagatctacttaaggcgca	AA048304
18919	cagatctacttaaggcgcatcctgc	AA048304
18920	atctacttaaggcgcatcctgcaca	AA048304
18921	tacttaaggcgcatcctgcacacgt	AA048304
18922	gtatgaccaagtcctggtggagtca	U37413
18923	agacaagatcctgcactcacacttg	U37413
18924	cgcacgcgagttcattctgaagatg	U37413
18925	atgtgccaccgacaccgagaacatc	U37413
18926	ctttgtgttcgcagctgtgaaggac	U37413
18927	gttcgcagctgtgaaggacaccatc	U37413
18928	tcctcaagggcagagtggcctcatt	U37413
18929	tggcctcatttcggccttgactcaa	U37413
18930	catttcggccttgactcaatgtggc	U37413
18931	ttcggccttgactcaatgtggcttg	U37413
18932	ggccttgactcaatgtggcttgagg	U37413
18933	gactcaatgtggcttgaggttttt	U37413
18934	caagatcctgcactcacacttggtc	U37413
18935	gatcctgcactcacacttggtcgat	U37413
18936	gcactcacacttggtcgattacttc	U37413
18937	ctcacacttggtcgattacttccct	U37413
18938	acacttggtcgattacttccctgag	U37413
18939	cgattacttccctgagtttgatggg	U37413
18940	ttacttccctgagtttgatgggcca	U37413
18941	gtttgatgggccacagagggatgca	U37413
18942	tgccaggggtctggccgtcagaaca	AA059527
18943	tctggccgtcagaacagcacagctg	AA059527
18944	ctgcagaccttactccatagccata	AA059527
18945	cagaccttactccatagccatatct	AA059527
18946	accttactccatagccatatctaga	AA059527
18947	ctccatagccatatctagagtgatc	AA059527
18948	catatctagagtgatcccgtgcttt	AA059527
18949	tagagtgatcccgtgcttttgctgg	AA059527
18950	agtgatcccgtgcttttgctggtgg	AA059527
18951	cccgtgcttttgctggtggcagtgc	AA059527
18952	cttttgctggtggcagtgctgactg	AA059527
18953	gtatgtcccctgagcagagcacaag	AA059527
18954	cgtcagaacagcacagctgctggtt	AA059527
18955	aacagcacagctgctggtttcctgt	AA059527
18956	agcacagctgctggtttcctgtttt	AA059527
18957	acagctgctggtttcctgttttctt	AA059527
18958	tttctgccccttgctatctgcaga	AA059527
18959	ccccttgctatctgcagaccttac	AA059527
18960	ctttgctatctgcagaccttactcc	AA059527
18961	tatctgcagaccttactccatagcc	AA059527
18962	gactctcatgtcggacagtgttgca	W62402
18963	catgtcggacagtgttgcagccaga	W62402
18964	tcgtcagtgcactataactccgcca	W62402
18965	gtgcactataactccgccagatgtc	W62402
18966	tataactccgccagatgtcgcaatc	W62402
18967	tccgccagatgtcgcaatctctgta	W62402
18968	agatgtcgcaatctctgtacctcga	W62402
18969	ctctgtacctcgagcaatctggggt	W62402
18970	acctcgagcaatctggggtcgatct	W62402
18971	agcaatctggggtcgatctagaaca	W62402
18972	tagaacactgggactatgcgcttcc	W62402

SEQ ID NO:	sequence	DBAxnID
61509	agcacagcaagccttcctcgcagga	D12885
61510	gcaagccttcctcgcaggagatcat	D12885
61511	cttcctcgcaggagatcatgcggat	D12885
61512	ggttctgcaaccgaaggcagagaga	D12885
61513	gtctcaatcagagcctgttctctat	D12885
61514	cgacaactgtcaccaaagcttataa	X62940
61515	ctgtcaccaaagcttataaaacacg	X62940
61516	cccagttagtcactctgtgtaatcc	X62940
61517	tagtcactctgtgtaatcccggaat	X62940
61518	ctctgtgtaatcccggaatctagct	X62940
61519	ccggaatctagctgctgaagtcttg	X62940
61520	tctagctgctgaagtcttgcgaagt	X62940
61521	taaactccccgtgaccgatgtcagt	X62940
61522	gtttctgcacctcacctgtatagtc	X62940
61523	ctgttctacttgtcacctttcaata	X62940
61524	tacttgtcacctttcaataaagcat	X62940
61525	tcacctttcaataaagcatatcaaa	X62940
61526	gatagtactgtccctcttttctgaa	X62940
61527	actgtccctcttttctgaaccatca	X62940
61528	cctcttttctgaaccatcagaagac	X62940
61529	ttctgaaccatcagaagacacaaaa	X62940
61530	agtgacacaacggtgacaggtagct	X62940
61531	tactgtttagcttctacacattgaa	X62940
61532	ttagcttctacacattgaaatgtag	X62940
61533	gcttgtccttcctagagagatctac	X62940
61534	acttacaccgtgagaacactgtcta	W91298
61535	acatcttgctggatgattatggcca	W91298
61536	ggccccagaagttctgaacaaccag	W91298
61537	agttctgaacaaccagcgatatgga	W91298
61538	tctgaacaaccagcgatatggactg	W91298
61539	gaacaaccagcgatatggactgagc	W91298
61540	atatggactgagccctgactactgg	W91298
61541	gggctgcctcatctatgagatgatt	W91298
61542	ctgcctcatctatgagatgattgaa	W91298
61543	tgaaggccagtcaccatttcgaggt	W91298
61544	aggccagtcaccatttcgaggtcgc	W91298
61545	ccagtcaccatttcgaggtcgcaag	W91298
61546	atgattatggccacataaggatctc	W91298
61547	accatttcgaggtcgcaaggagaag	W91298
61548	attatggccacataaggatctcaga	W91298
61549	taaggatctcagacctcggactggc	W91298
61550	tggccgtgaagatccccgagggaga	W91298
61551	ttatccgtggccgggtagcactgtt	W91298
61552	cactgttggctacatggccccagaa	W91298
61553	tggctacatggccccagaagttctg	W91298
61554	catggccccagaagttctgaacaac	W91298
61555	gtctgttttaatccctataacacag	X14489
61556	tttaatccctataacacagtagcca	X14489
61557	gataactgaccaacaccctgtctca	X14489
61558	acaccctgtctcacaataagaagct	X14489
61559	tgtctcacaataagaagctgggctg	X14489
61560	agaagctgggctgcagctgaatcgt	X14489
61561	tgggctgcagctgaatcgtagatta	X14489
61562	acttcgtagatctcgcaaggcccga	X14489
61563	aggtgcagtccctaatgttgcagaa	X14489
61564	acaatattgcactcctgtaaaatag	X14489
61565	ttgcactcctgtaaaatagtaccct	X14489
61566	atactgtattggtttcatgaggaga	X14489
61567	ccctataacacagtagccatcaaat	X14489
61568	aacacagtagccatcaaatgaatgg	X14489
61569	gtgcttcagccgatgatcacagcta	X14489
61570	cagccgatgatcacagctagttaag	X14489
61571	caaggcttgcctaggctacagactg	X14489
61572	ttgcctaggctacagactgggctca	X14489
61573	aggctacagactgggctcaacataa	X14489
61574	cagactgggctcaacataagcttag	X14489
61575	tctccaggccagatcacttgaatgg	W91302
61576	ccaggccagatcacttgaatggaca	W91302

SEQ ID NO:	sequence	DBAxnID
104113	tacctctcttggtcttctggatgtg	AA170400
104114	tcttggtcttctggatgtgtccata	AA170400
104115	cgttctaggtgctcagtcaactagc	AA170400
104116	ttctaggtgctcagtcaactagcac	AA170400
104117	gctcagtcaactagcactagctaca	AA170400
104118	tcagtcaactagcactagctacacc	AA170400
104119	agtcaactagcactagctacaccag	AA170400
104120	tcaactagcactagctacaccagtg	AA170400
104121	aaggagccttcagtcttaagagagg	AA170400
104122	ggagccttcagtcttaagagaggag	AA170400
104123	agccttcagtcttaagagaggagct	AA170400
104124	ccttcagtcttaagagaggagctga	AA170400
104125	ttggtcttctggatgtgtccataga	AA170400
104126	ggtcttctggatgtgtccatagatg	AA170400
104127	tcttctggatgtgtccatagatgaa	AA170400
104128	gactcagcgcatagatgccgttcta	AA170400
104129	gcatagatgccgttctaggtgctca	AA170400
104130	atagatgccgttctaggtgctcagt	AA170400
104131	agatgccgttctaggtgctcagtca	AA170400
104132	atgccgttctaggtgctcagtcaac	AA170400
104133	cagatacatcgagaacctggaggtg	L41352
104134	catgaagactcacagcgaggatgac	L41352
104135	catcggcatcgttatcacagtgcac	L41352
104136	gactgtgcacgccattgcctagctg	L41352
104137	aatcattgccaagccacaccggaaa	L41352
104138	tgccaagccacaccggaaatgacat	L41352
104139	gccacaccggaaatgacattggtcc	L41352
104140	atgacattggtccttctttcagaaa	L41352
104141	gatggttccagatgcccagttgtca	L41352
104142	tccagatgcccagttgtcacttttt	L41352
104143	tatgatagtcttacttctgtacata	L41352
104144	agtcttacttctgtacataaagaga	L41352
104145	gactcacagcgaggatgacaaggac	L41352
104146	caaggacctatccaagattgcagta	L41352
104147	cctatccaagattgcagtagtagct	L41352
104148	tgtcactatctttgtctctgccatc	L41352
104149	tatctttgtctctgccatcatcctc	L41352
104150	tgccatcatcctcgcagctattggc	L41352
104151	cgcagctattggcatcggcatcgtt	L41352
104152	tattggcatcggcatcgttatcaca	L41352
104153	atccttatggattcacaagagtaat	V00718
104154	gaccattaatgcagacactacttgt	V00718
104155	gcaattgcactggacttagagtgaa	V00718
104156	caattgcactggacttagagtgaat	V00718
104157	attgcactggacttagagtgaatgt	V00718
104158	ttgcactggacttagagtgaatgtt	V00718
104159	tgcaatccatgctgactcaaaattg	V00718
104160	caatccatgctgactcaaaattgta	V00718
104161	aatccatgctgactcaaaattgtaa	V00718
104162	atccatgctgactcaaaattgtaag	V00718
104163	ccatgctgactcaaaattgtaagaa	V00718
104164	catgctgactcaaaattgtaagaat	V00718
104165	accattaatgcagacactacttgtg	V00718
104166	ccattaatgcagacactacttgtgg	V00718
104167	attaatgcagacactacttgtggca	V00718
104168	ttaatgcagacactacttgtggcaa	V00718
104169	taatgcagacactacttgtggcaat	V00718
104170	atgcagacactacttgtggcaatga	V00718
104171	tgcagacactacttgtggcaatgac	V00718
104172	ggcaattgcactggacttagagtga	V00718
104173	tctgtgtatcccagctgccgggaca	AA170355
104174	gtgtatcccagctgccgggacagga	AA170355
104175	gtctgctgctgctggctatcatcac	AA170355
104176	tgctgctgctggctatcatcacagc	AA170355
104177	ctatcatcacagctatactttacaa	AA170355
104178	tcatcacagctatactttacaaggc	AA170355
104179	tcacagctatactttacaaggctgg	AA170355
104180	cagctatactttacaaggctggttt	AA170355

TABLE 1

SEQ ID NO	sequence	DBAxnID
18973	tcaggccctttgggctcgatcttca	W62402
18974	cctaattactggcacatgatcagcg	W62402
18975	tactggcacatgatcagcgcttgac	W62402
18976	cacatgatcagcgcttgacacggca	W62402
18977	atcagcgcttgacacggcatctact	W62402
18978	gcttgacacggcatctactccactc	W62402
18979	ctacaaccgtgacaccgaccttcat	W62402
18980	ccttcatgccggacccaatcgtcag	W62402
18981	acccaatcgtcagtgcactataact	W62402
18982	atgtattcccacctagtcgactact	M55412
18983	ctagtcgactacttcccagaatatg	M55412
18984	gtctttgcagccgtcaaggacacca	M55412
18985	gtctaaccgtgcctcccagaaactg	M55412
18986	cgtcctggactctgtgagcgtgtcc	M55412
18987	ctgaagtacagtcccagcacatttc	M55412
18988	aagtacagtcccagcacatttcctc	M55412
18989	tacagtcccagcacatttcctcttt	M55412
18990	aaattttcagtcattcactcacagt	M55412
18991	ttttcagtcattcactcacagtata	M55412
18992	attcactcacagtataaaagcactc	M55412
18993	cagtataaaagcactcctgtcattc	M55412
18994	gtcgactacttcccagaatatgatg	M55412
18995	tacttcccagaatatgatggacccc	M55412
18996	agagatgcccaggcagctcgagaat	M55412
18997	gatgcccaggcagctcgagaattca	M55412
18998	ttcatcctgaaaatgttcgtggacc	M55412
18999	acgtgcgccacagataccgagaaca	M55412
19000	aacatccgcttcgtctttgcagccg	M55412
19001	ttcgtctttgcagccgtcaaggaca	M55412
19002	gctggctgaagacaccccagcttgt	W62420
19003	ggctgaagacaccccagcttgtgct	W62420
19004	caccctagctcaccatggggaacca	W62420
19005	cctagctcaccatggggaaccactt	W62420
19006	agctcaccatggggaaccacttgac	W62420
19007	tcaccatggggaaccacttgactga	W62420
19008	tgactgaaatggcccctacagcctc	W62420
19009	ctgaaatggcccctacagcctcgtc	W62420
19010	cgcacttccaggccctgcatgtcgt	W62420
19011	acttccaggccctgcatgtcgtcgt	W62420
19012	tgcatgtcgtcgtcattgggttgga	W62420
19013	atgtcgtcgtcattgggttggattc	W62420
19014	tgaagacaccccagcttgtgctacc	W62420
19015	agacaccccagcttgtgctacctgc	W62420
19016	agcttgtgctacctgccgttttaag	W62420
19017	taaggtctcctcttcttggcctctg	W62420
19018	ttcttggcctctgcttgagtcccag	W62420
19019	gcttgagtcccagacctactcctga	W62420
19020	tgagtcccagacctactcctgaggt	W62420
19021	gtcccagacctactcctgaggtcca	W62420
19022	ctaacatcgtcgagggcacgttaca	W62453
19023	catcgtcgagggcacgttacacagc	W62453
19024	ctctaagaactacaactcgatgagc	W62453
19025	ctaagaactacaactcgatgagcag	W62453
19026	gaactacaactcgatgagcagcaga	W62453
19027	actacaactcgatgagcagcagagc	W62453
19028	caagcgtttacaagctctgcttatc	W62453
19029	agcgtttacaagctctgcttatcca	W62453
19030	cgtttacaagctctgcttatccaga	W62453
19031	tttacaagctctgcttatccagaag	W62453
19032	tacaagctctgcttatccagaagtc	W62453
19033	caagctctgcttatccagaagtcaa	W62453
19034	agggcacgttacacagcaccgagcg	W62453
19035	agctctgcttatccagaagtcaaaa	W62453
19036	ggcacgttacacagcaccgagcgcg	W62453
19037	cgttacacagcaccgagcgcggctc	W62453
19038	ttacacagcaccgagcgcggctctg	W62453
19039	acacagcaccgagcgcggctctgaa	W62453
19040	acagcaccgagcgcggctctgaagc	W62453

SEQ ID NO:	sequence	DBAxnID
61577	gaaagtacttgcgggccgcatacat	W91302
61578	ccgcatacatggcagaccacctgaa	W91302
61579	catacatggcagaccacctgaagaa	W91302
61580	cagaccacctgaagaagcacagtga	W91302
61581	accacctgaagaagcacagtgaggg	W91302
61582	ggcccagcaacttctgtagcatctg	W91302
61583	gcaacttctgtagcatctgtaaccg	W91302
61584	acttctgtagcatctgtaaccgaga	W91302
61585	tctgtaaccgagaaggccagaaatg	W91302
61586	gccagaaatgctcacatcaggatct	W91302
61587	aggtgcacacttctgagcgacctca	W91302
61588	aatgctcacatcaggatctgattga	W91302
61589	tgcacacttctgagcgacctcacaa	W91302
61590	ctgagcgacctcacaagtgtcagac	W91302
61591	agcgacctcacaagtgtcagacctg	W91302
61592	acaagtgtcagacctgcaatgcctc	W91302
61593	agtgtcagacctgcaatgcctcctt	W91302
61594	gtcagacctgcaatgcctcctttgc	W91302
61595	cctttgcgactcgagaccgcctgcg	W91302
61596	acttcaccaaggccaagctgatcac	W91360
61597	ccaaggccaagctgatcaccccaat	W91360
61598	acatcaagccccagaatttgcttgt	W91360
61599	tgcttgtggaccctgacactgctgt	W91360
61600	tggaccctgacactgctgtcctcaa	W91360
61601	ctgacactgctgtcctcaagctctg	W91360
61602	ctgctgtcctcaagctctgcgattt	W91360
61603	tcctcaagctctgcgattttggcag	W91360
61604	agctctgcgattttggcagtgcaaa	W91360
61605	actaccgtgctccggaactcatctt	W91360
61606	gtgctccggaactcatctttggagc	W91360
61607	cggaactcatctttggagccacaga	W91360
61608	ccaagctgatcaccccaatcatcta	W91360
61609	tcatctttggagccacagattacag	W91360
61610	ccccaatcatctacatcaaggtgta	W91360
61611	acatgtaccagctcttccggagctt	W91360
61612	accagctcttccggagcttggccta	W91360
61613	tcttccggagcttggcctacatcca	W91360
61614	actcccaaggtgtgtgtcaccgtga	W91360
61615	tgtgtcaccgtgacatcaagcccca	W91360
61616	accgtgacatcaagccccagaattt	W91360
61617	gcctcagctgtcatagtccctgaag	X17071
61618	gctgtcatagtccctgaagcgcagt	X17071
61619	aatcagccacagtaacatggacagc	X17071
61620	cgagcgaaacagccactgtgccatt	X17071
61621	ccactgtgccattgtctaagaaatc	X17071
61622	ctctgccccaacatatgaactgcct	X17071
61623	cccaacatatgaactgcctgatggt	X17071
61624	gcagggacttccccaattcagtatc	X17071
61625	ccaattcagtatcccctgacaagtg	X17071
61626	cccctgacaagtgggatcctgcact	X17071
61627	gggatcctgcactcaagtcccttaa	X17071
61628	atcctgcactcaagtcccttaaata	X17071
61629	ggctccaacatagaaatgagtgcct	X17071
61630	agtgcctccggtcagctaactgatg	X17071
61631	tccggtcagctaactgatgaagaac	X17071
61632	atgactactgttttacacccaatgt	X17071
61633	ttacacccaatgtttgaagaggagg	X17071
61634	aaaccacagccagttgttgatgacc	X17071
61635	gatgaccctgaatttgaggattaca	X17071
61636	gtaccaaatcagccacagtaacatg	X17071
61637	tcatacacaaagcaatgtgtgatcg	W91283
61638	catacacaaagcaatgtgtgatcga	W91283
61639	gtcttctcagtcacggatagaggca	W91283
61640	tcttctcagtcacggatagaggcag	W91283
61641	tctcagtcacggatagaggcagttt	W91283
61642	caataaagctgacctggaccatcag	W91283
61643	taaagctgacctggaccatcagaga	W91283
61644	aaagctgacctggaccatcagagac	W91283

SEQ ID NO	sequence	DBAxnID
104181	tcttcaaacgtcagtacaaggagat	AA170355
104182	tcaaacgtcagtacaaggagatgtt	AA170355
104183	caactccccaggttgcccagtgaga	AA170355
104184	ctccccaggttgcccagtgagaact	AA170355
104185	tatcccagctgccgggacaggaggc	AA170355
104186	cccagctgccgggacaggaggcatt	AA170355
104187	agctgccgggacaggaggcatttct	AA170355
104188	aggcatttctgagagcccagacgaa	AA170355
104189	catttctgagagcccagacgaagac	AA170355
104190	ttctgagagcccagacgaagacagt	AA170355
104191	gagcccagacgaagacagtgctgga	AA170355
104192	tccctcttatcgtgggcagctcagt	AA170355
104193	aatatttgacatggtccaagaatgg	AA170693
104194	atatttgacatggtccaagaatgga	AA170693
104195	gttttcttcctgatatgattaaatg	AA170693
104196	tttcttcctgatatgattaaatgaa	AA170693
104197	aatgaattcttgtctggtctcaaca	AA170693
104198	gaattcttgtctggtctcaacaaga	AA170693
104199	cttgtctggtctcaacaagataatg	AA170693
104200	ttgtctggtctcaacaagataatgt	AA170693
104201	aatgtaacacttgggaccaaatatg	AA170693
104202	atgtaacacttgggaccaaatatga	AA170693
104203	agtgctgtgctggaagccaagatag	AA170693
104204	tgctgtgctggaagccaagatagag	AA170693
104205	atggagccatcaggtcttagactca	AA170693
104206	tggagccatcaggtcttagactcag	AA170693
104207	agccatcaggtcttagactcagaga	AA170693
104208	ccatcaggtcttagactcagagaaa	AA170693
104209	catcaggtcttagactcagagaaac	AA170693
104210	aatgatgccattcatgaagttgtta	AA170693
104211	atgatgccattcatgaagttgttaa	AA170693
104212	ggtgttttcttcctgatatgattaa	AA170693
104213	aaagtcaagcccatctatttccaca	X59411
104214	atctatttccacacacagtgaagat	X59411
104215	gtacagtctgtcgtgaacaggttcc	X59411
104216	attttgaatctgctgctgattgtgg	X59411
104217	gtgatgatcctcttgtggcccagtg	X59411
104218	atcctcttgtggcccagtgtcaatt	X59411
104219	cccagtgtcaattgtgcttgtttat	X59411
104220	tgtttatagcactgtgctgtgtgcc	X59411
104221	tgtgctgtgtgccaaccaagcaaat	X59411
104222	gtgtgccaaccaagcaaatgtttac	X59411
104223	agcaaatgtttactcaccttatgcc	X59411
104224	ctcaccttatgccatggtaaattta	X59411
104225	ttccacacacagtgaagatttggaa	X59411
104226	tgttccctttccagatgtcttctgc	X59411
104227	ctttccagatgtcttctgcctgtta	X59411
104228	agatgtcttctgcctgttatataac	X59411
104229	atataactctgcactacttctctgc	X59411
104230	ctctgcactacttctctgcagtgcc	X59411
104231	actacttctctgcagtgccttgggg	X59411
104232	tcctctactgatgtacagtctgtcg	X59411
104233	atcgcagacctggtgatgcagctct	AA170665
104234	tcgcagacctggtgatgcagctctg	AA170665
104235	cacatcaagaccggtgaaccttgtc	AA170665
104236	catcaagaccggtgaaccttgtcgg	AA170665
104237	tcaagaccggtgaaccttgtcggtg	AA170665
104238	gaccggtgaaccttgtcggtgcgag	AA170665
104239	accttgtcggtgcgagaggctgatc	AA170665
104240	cttgtcggtgcgagaggctgatcaa	AA170665
104241	ttgtcggtgcgagaggctgatcaag	AA170665
104242	cagcaaaccaagtttgctggcaggt	AA170665
104243	agcaaaccaagtttgctggcaggtc	AA170665
104244	gcaaaccaagtttgctggcaggtcc	AA170665
104245	tgatgcagctctgcactgggcacat	AA170665
104246	atgcagctctgcactgggcacatca	AA170665
104247	cactgggcacatcaagaccggtgaa	AA170665
104248	actgggcacatcaagaccggtgaac	AA170665

TABLE 1

SEQ ID NO	sequence	DBAxnID
19041	agcaccgagcgcggctctgaagcaa	W62453
19042	caccgagcgcggctctgaagcaaaa	W62453
19043	tctgtgctggctacaaagaaggcgg	M58588
19044	gccccttagtctgtaaacacagtgg	M58588
19045	gcaaactagagctccaggattctcg	M58588
19046	tagagctccaggattctcggctgta	M58588
19047	tccaggattctcggctgtaaaatgt	M58588
19048	attctcggctgtaaaatgttgataa	M58588
19049	tctacctcacatccgtatcattgga	M58588
19050	tcacatccgtatcattggattgaaa	M58588
19051	aagtgtgtttcctgccttgagtcac	M58588
19052	gtttcctgccttgagtcacaggagc	M58588
19053	tgccttgagtcacaggagctccaat	M58588
19054	gagtcacaggagctccaatgggagc	M58588
19055	gtaaacacagtggacggtggcagtt	M58588
19056	gtatcaccagctggggtgaaggctg	M58588
19057	gcaaggaccaaccaggagtctacac	M58588
19058	tctacaccaaagtttctgagtacat	M58588
19059	tttctgagtacatggactggatatt	M58588
19060	agacatcttcagcctgaggaggctg	M58588
19061	ctggctttaccacctgccctcaagg	M58588
19062	cctgccctcaaggcaaactagagct	M58588
19063	acatgatctccttgaaggggcacag	AA110896
19064	tgatctccttgaaggggcacaggtc	AA110896
19065	agaagctggcggccttcatgaagaa	AA110896
19066	agctggcggccttcatgaagaattt	AA110896
19067	agatgcatcagctgtgaacatgacc	AA110896
19068	tgtgaacatgaccagccacgctctg	AA110896
19069	gaacatgaccagccacgctctgcct	AA110896
19070	gaccagccacgctctgcctgtgagc	AA110896
19071	gagcagcacgcagcgtcgtttagag	AA110896
19072	cagcacgcagcgtcgtttagagtaa	AA110896
19073	tttcccaaatacatgcttattacag	AA110896
19074	cccaaatacatgcttattacagatt	AA110896
19075	tctccttgaaggggcacaggtcagt	AA110896
19076	gaggcattcgtgcctctctgtataa	AA110896
19077	cctctctgtataacgctgtcacaac	AA110896
19078	ctctgtataacgctgtcacaaccga	AA110896
19079	tgtataacgctgtcacaaccgaaga	AA110896
19080	ataacgctgtcacaaccgaagacgt	AA110896
19081	ctgtcacaaccgaagacgttgagaa	AA110896
19082	tcacaaccgaagacgttgagaagct	AA110896
19083	gagcttccaggatgtctactttgta	J04758
19084	tgtctactttgtatctgagagcttt	J04758
19085	tcagtctagagccagggctagttct	J04758
19086	agctcccagcttagcaatgtctctc	J04758
19087	cagcttagcaatgtctctcgcctct	J04758
19088	agcaatgtctctcgcctctctccat	J04758
19089	tctccatattcaatcactcactctc	J04758
19090	tattcaatcactcactctctctgaa	J04758
19091	cactctctctgaaaatgcacacctg	J04758
19092	aaatgcacacctggaactgcttatc	J04758
19093	cacgtgccacgtgatgcccaggaca	J04758
19094	ccacgtgatgcccaggacacacatt	J04758
19095	ctttgtatctgagagctttgaagat	J04758
19096	gtacacacagagtgttcaggttctc	J04758
19097	tgttcaggttctcagagacaccaag	J04758
19098	ggttctcagagacaccaagagcata	J04758
19099	ccttgatgtcatcagtgatgccctc	J04758
19100	tgtcatcagtgatgccctcgctagg	J04758
19101	ggtcaccaggtggcccagtgtgtga	J04758
19102	gcatatccaaaaagcctttgagcat	J04758
19103	agctgcgagtggcctgcttgaggac	M60057
19104	gacctcgctggagcccagcttaagg	M60057
19105	gatcaaactgtctccccaggaaact	M60057
19106	gctaatccaattattcctgtcactg	M60057
19107	attattcctgtcactgttaccataa	M60057
19108	attcctgtcactgttaccataattt	M60057

SEQ ID NO:	sequence	DBAxnID
61645	agctgacctggaccatcagagacag	W91283
61646	gctgacctggaccatcagagacagg	W91283
61647	tgacctggaccatcagagacaggta	W91283
61648	gacctggaccatcagagacaggtaa	W91283
61649	gctgcccggctggacattttggata	W91283
61650	gcccggctggacattttggatacag	W91283
61651	acattttggatacagccggacaaga	W91283
61652	attttggatacagccggacaagagg	W91283
61653	atacagccggacaagaggagtttgg	W91283
61654	agtttggagccatgagagagcaata	W91283
61655	tgttggtcttctcagtcacggatag	W91283
61656	ttggtcttctcagtcacggatagag	W91283
61657	catctttccagctccagtcggacag	W91498
61658	atctttccagctccagtcggacagg	W91498
61659	gcgtgcagcgtcaccggatcgtcca	W91498
61660	cagcgtcaccggatcgtccaccata	W91498
61661	gatcgtccaccatagcggcagagga	W91498
61662	atcgtccaccatagcggcagaggaa	W91498
61663	tcgtccaccatagcggcagaggaac	W91498
61664	cgtccaccatagcggcagaggaacc	W91498
61665	ccaccatagcggcagaggaaccgtc	W91498
61666	caccatagcggcagaggaaccgtcg	W91498
61667	tctttccagctccagtcggacaggc	W91498
61668	ctttccagctccagtcggacaggcg	W91498
61669	tttccagctccagtcggacaggcgc	W91498
61670	ttccagctccagtcggacaggcgcg	W91498
61671	tccagctccagtcggacaggcgcgg	W91498
61672	ctccagtcggacaggcgcggagact	W91498
61673	cacctgggcgtgcagcgtcaccgg	W91498
61674	accctgggcgtgcagcgtcaccgga	W91498
61675	gccaggagaccctggcaaagcaaac	X59387
61676	ccccacaactggaagcctgggtcag	X59387
61677	ttccacactggccaagacggttctt	X59387
61678	ttaaaatccaacttctgtcatctgc	X59387
61679	tccaacttctgtcatctgccccata	X59387
61680	ttctgtcatctgccccatatggcaa	X59387
61681	atggcaagactgacctggtataact	X59387
61682	agactgacctggtataacttcagcg	X59387
61683	tataacttcagcgcatcctccaagg	X59387
61684	atatataaccctgctcttgttaatc	X59387
61685	aaccctgctcttgttaatctcaatg	X59387
61686	cttgttaatctcaatgacaataaaa	X59387
61687	aggctttaggtctaggctgatgtaa	X59387
61688	gatgtaagccctgtgtatcctatcc	X59387
61689	agccctgtgtatcctatcccagttc	X59387
61690	tttcttcttagatgctaaccctggg	X59387
61691	cttagatgctaaccctgggccctct	X59387
61692	tgctaaccctgggccctctgtacat	X59387
61693	ccctgggccctctgtacatagcatc	X59387
61694	tacccacttcaggaacttcaaagag	X59387
61695	caagcctccatgactccaaaagggg	X92590
61696	gcctccatgactccaaaaggggca	X92590
61697	tggcatctgccactgcaggtgctgt	X92590
61698	tgctgcttcagctgtaacgaatgag	X92590
61699	tgcttcagctgtaacgaatgagcca	X92590
61700	atgatgcagtcggcagacggacccg	X92590
61701	atgcagtcggcagacggacccgaag	X92590
61702	aagctgttctgacacatggactatt	X92590
61703	ttctgacacatggactattttgta	X92590
61704	acttggacattggtcacttgtagga	X92590
61705	tggacattggtcacttgtaggaaat	X92590
61706	gaaattaacttgtctatcttcattt	X92590
61707	agcttgtccctccatgtaggcccag	X92590
61708	ctccatgtaggcccagctgtggact	X92590
61709	tgccttgctgccagcagggatctct	X92590
61710	gctgccagcagggatctcttgagcc	X92590
61711	agcctgtctccagcttgaccccaag	X92590
61712	gcttgaccccaaggtagacactggc	X92590

SEQ ID NO	sequence	DBAxnID
104249	ctgggcacatcaagaccggtgaacc	AA170665
104250	gggcacatcaagaccggtgaacctt	AA170665
104251	ggcacatcaagaccggtgaaccttg	AA170665
104252	gcacatcaagaccggtgaaccttgt	AA170665
104253	ttcagcaactatgacattgcgaact	AA170748
104254	cattgcgaactcgcgtatggtgact	AA170748
104255	cggctcttttgtggttgagcatgtg	AA170748
104256	gctcttttgtggttgagcatgtgag	AA170748
104257	acaatagtcacagcattcgcactcg	AA170748
104258	tagtcacagcattcgcactcggcag	AA170748
104259	gtcacagcattcgcactcggcagtc	AA170748
104260	cacagcattcgcactcggcagtcta	AA170748
104261	cagcattcgcactcggcagtctaac	AA170748
104262	attcgcactcggcagtctaacattt	AA170748
104263	tcgcactcggcagtctaacattttg	AA170748
104264	gcactcggcagtctaacattttggt	AA170748
104265	gcgaactcgcgtatggtgactgtac	AA170748
104266	gaactcgcgtatggtgactgtacgt	AA170748
104267	actcgcgtatggtgactgtacgtgc	AA170748
104268	atggtgactgtacgtgctaggttgg	AA170748
104269	tgtacgtgctaggttggaaggaact	AA170748
104270	tacgtgctaggttggaaggaactgg	AA170748
104271	agagagacatctcggctcttttgtg	AA170748
104272	agagacatctcggctcttttgtggt	AA170748
104273	cgtgattacctgctgaggccagcat	AA061886
104274	gattacctgctgaggccagcatcca	AA061886
104275	tgattgacagcgaggacacggtctg	AA061886
104276	tagagcactactattcgtggtcttt	AA061886
104277	actattcgtggtctttcgcctgtgc	AA061886
104278	gtgcatgtgccgcgttcatcttgct	AA061886
104279	tgcctcggatgcctcagaacccctg	AA061886
104280	ctcagaaccccctgggaatcctgcat	AA061886
104281	agaaccccctgggaatcctgcatgga	AA061886
104282	acccctgggaatcctgcatggacgc	AA061886
104283	gggaatcctgcatggacgctgagcc	AA061886
104284	cctgcatggacgctgagccagagca	AA061886
104285	ctgaggccagcatccatgttttatg	AA061886
104286	aggccagcatccatgttttatgcct	AA061886
104287	gcatccatgttttatgccttcgcag	AA061886
104288	atgttttatgccttcgcagggctct	AA061886
104289	tatgccttcgcagggctctgctcat	AA061886
104290	gccttcgcagggctctgctcatcgt	AA061886
104291	ctctgctcatcgtctccgtggaggt	AA061886
104292	tcgtctccgtggaggtcatgaggca	AA061886
104293	tcaacttaaagggccagctaatatc	M29325
104294	ctcccaacacataataatcagaaca	M29325
104295	gctactataccggccaaattctca	M29325
104296	ggccaaattctcaattaccatagat	M29325
104297	ctcaattaccatagatggagaaacc	M29325
104298	caaattcacacattatctctccacg	M29325
104299	attcacacattatctctccacgaat	M29325
104300	cacacattatctctccacgaatcca	M29325
104301	gaatccagcccttcaaaggataata	M29325
104302	aaatcacgccctagaacaagcaaga	M29325
104303	tcacgccctagaacaagcaagaaag	M29325
104304	aagacagccacaagaacagaatgcc	M29325
104305	tatcagaattacaccagacttttca	M29325
104306	cagaattacaccagacttttcacca	M29325
104307	tacaccagacttttcaccagagact	M29325
104308	agacttttcaccagagactatgaaa	M29325
104309	ttcaccagagactatgaaagccaga	M29325
104310	tgttatacagacactaagagaacac	M29325
104311	acacaaatgccagcccaggctacta	M29325
104312	caaatgccagcccaggctactatac	M29325
104313	aaatgtgacgttctttgtcactgtc	K00988
104314	atgtgacgttctttgtcactgtcct	K00988
104315	ctttgtcactgtcctgtatatcacg	K00988
104316	tttgtcactgtcctgtatatcacgg	K00988

TABLE 1

SEQ ID NO	sequence	DBAxnID
19109	tatcttggtgctgctgactctgttt	M60057
19110	taacataatgcactttaggtataca	M60057
19111	ttatctagactgatttccttctgtg	M60057
19112	tctagactgatttccttctgtgcat	M60057
19113	agactgatttccttctgtgcatgta	M60057
19114	tccttctgtgcatgtaaaaatggca	M60057
19115	ctcgctggagcccagcttaaggacg	M60057
19116	aaattttcatcgaagatcttccaag	M60057
19117	ttttcatcgaagatcttccaaggac	M60057
19118	tcatcgaagatcttccaaggacacg	M60057
19119	aagatcttccaaggacacgttacag	M60057
19120	atcttccaaggacacgttacaggat	M60057
19121	atttattgcctgtacatactgtaaa	M60057
19122	tattgcctgtacatactgtaaatgc	M60057
19123	acagatggcccagcgactcagccag	W81854
19124	ggcccagcgactcagccagggtcac	W81854
19125	ccgtcagggccactctcgtacttga	W81854
19126	tacttgaccacgtccatattgagac	W81854
19127	accacgtccatattgagactctccc	W81854
19128	ttctccatgctctcagggtcattta	W81854
19129	atgctctcagggtcatttagcactt	W81854
19130	tcatttagcacttcagccactctct	W81854
19131	agcacttcagccactctctgtttgt	W81854
19132	tcagccactctctgtttgtgaacat	W81854
19133	ttgtcaagaccctgcttacgtgacc	W81854
19134	agaccctgcttacgtgacctcatgg	W81854
19135	gcgactcagccagggtcacgttagt	W81854
19136	tgcttacgtgacctcatggcggctt	W81854
19137	cagccagggtcacgttagtgctagc	W81854
19138	cgttagtgctagcgtcttctaggct	W81854
19139	cgtcttctaggctgctgctgtcgtt	W81854
19140	ctaggctgctgctgtcgttttccac	W81854
19141	tgctgctgtcgttttccacacaaag	W81854
19142	tgtcgttttccacacaaagaggctc	W81854
19143	tttccacacaaagaggctctgcggg	W81854
19144	cagagtaccgtgcaggcacagatga	W65940
19145	accgtgcaggcacagatgaatatcc	W65940
19146	tcttgccctatttcagtccttgcta	W65940
19147	tgccctatttcagtccttgctacag	W65940
19148	cctatttcagtccttgctacagcat	W65940
19149	tcagtccttgctacagcattgacac	W65940
19150	gtccttgctacagcattgacactaa	W65940
19151	cttgctacagcattgacactaacaa	W65940
19152	gctacagcattgacactaacaatac	W65940
19153	ttgacactaacaataccactccact	W65940
19154	agagccatcctaacttaatagatca	W65940
19155	gccatcctaacttaatagatcattg	W65940
19156	atgaatatccgctcctgcccttgac	W65940
19157	actatgaggcccatgacatctcctt	W65940
19158	atgaggcccatgacatctccttcta	W65940
19159	aggcccatgacatctccttctataa	W65940
19160	atgacatctccttctataatgtgac	W65940
19161	acatctccttctataatgtgactga	W65940
19162	tctccttctataatgtgactgatgg	W65940
19163	caggccgtctcttgccctatttcag	W65940
19164	catagtcaaggccgactcctcagtc	U22015
19165	tctgagcataggaccacaggtgtag	U22015
19166	ttccggtcacgaactaaatcaggca	U22015
19167	cggtcacgaactaaatcaggcaggg	U22015
19168	gttgaccagaacacacatcgttggg	U22015
19169	aacacacatcgttgggttgatcgtg	U22015
19170	acacatcgttgggttgatcgtgttc	U22015
19171	agttctgaccctgttgttatcacca	U22015
19172	gttgttatcaccaccagcacccatt	U22015
19173	accagcacccattcagtatcctggc	U22015
19174	agcacccattcagtatcctggcttt	U22015
19175	gatcagttcagacaactgtgaatat	U22015
19176	atgcagagtaccctctcacagctca	U22015
61713	tgaccccaaggtagacactggcatc	X92590
61714	ggtagacactggcatctgccactgc	X92590
61715	ggctcgcccatggcgtaacgtggcc	AA107471
61716	catggcgtaacgtggccgacacgaa	AA107471
61717	gctgtacgacatcctgggcgtccct	AA107471
61718	gcgctacgcagaacgagctgaagaa	AA107471
61719	cgctacgcagaacgagctgaagaag	AA107471
61720	tagccaaagaataccaccctgataa	AA107471
61721	agccaaagaataccaccctgataag	AA107471
61722	caaagaataccaccctgataagaat	AA107471
61723	agaataccaccctgataagaatcca	AA107471
61724	gtcaaatccagagaagcgagactgt	AA107471
61725	ggatgatatcttctcacatattttt	AA107471
61726	gatgatatcttctcacatattttg	AA107471
61727	taacgtggccgacacgaagctgtac	AA107471
61728	gatatcttctcacatattttggtg	AA107471
61729	acgtggccgacacgaagctgtacga	AA107471
61730	cgtggccgacacgaagctgtacgac	AA107471
61731	tggccgacacgaagctgtacgacat	AA107471
61732	ggccgacacgaagctgtacgacatc	AA107471
61733	ccgacacgaagctgtacgacatcct	AA107471
61734	gaagctgtacgacatcctgggcgtc	AA107471
61735	agctgtacgacatcctgggcgtccc	AA107471
61736	caactggatcttctaggctcaaagt	X51683
61737	gatcttctaggctcaaagtggcagg	X51683
61738	tgtttctctacaacatatatgtgac	X51683
61739	tacacctctaatgtcctcccttgtt	X51683
61740	tctaatgtcctcccttgttgcctta	X51683
61741	gtcctcccttgttgccttagagtag	X51683
61742	actgaaccgtcaactgttctgccct	X51683
61743	actgttctgcccttggaacatgcct	X51683
61744	catgcctactttaagcacacgtagc	X51683
61745	tactttaagcacacgtagctttttg	X51683
61746	aagcacacgtagcttttgtgttgg	X51683
61747	tacttttctgttgacaaagtagcca	X51683
61748	tggcaggctcttgggacaagggaaa	X51683
61749	tagatactaacaactccattttcaa	X51683
61750	agcaataatacatgtcctataatca	X51683
61751	ataatcatgttctacagcctcttgt	X51683
61752	tacagcctcttgtttgatacctaca	X51683
61753	gatatgtgtcctacattatgaagcc	X51683
61754	tgtcctacattatgaagccaaggac	X51683
61755	cagttaatcagagtcctttgctagg	X51683
61756	ccttggcatgtcagcctttaagtaa	AA028547
61757	tggcatgtcagcctttaagtaacgg	AA028547
61758	agctatgccacacagagaccatagt	AA028547
61759	gccacacagagaccatagtcacttg	AA028547
61760	cagagaccatagtcacttgtcattt	AA028547
61761	tagtcacttgtcatttttcaagcctc	AA028547
61762	tcacttgtcattttcaagcctctat	AA028547
61763	ttcaagcctctatttttcccagctcc	AA028547
61764	cctctatttttcccagctccatggtg	AA028547
61765	ctatttttcccagctccatggtgagg	AA028547
61766	cagctccatggtgaggacaccagct	AA028547
61767	ctccatggtgaggacaccagctttc	AA028547
61768	gttctcaaaacctagaagtcatggc	AA028547
61769	ctcaaaacctagaagtcatggcatg	AA028547
61770	cagccctaaggatgtctcagaggca	AA028547
61771	gcattcagaggggcttctgcaaacc	AA028547
61772	ggggcttctgcaaacctagagtcca	AA028547
61773	gcttctgcaaacctagagtccagga	AA028547
61774	aacctagagtccaggaggcaatggg	AA028547
61775	ggtagctatgccacacagagaccat	AA028547
61776	caggccctgtaggatgctgtgggtc	X63535
61777	gtgggtcctcagcatctaagtcaca	X63535
61778	taaaggtccacagtctagagtatta	X63535
61779	tccacagtctagagtattaggtacg	X63535
61780	tttccctccttaagcacctatgctc	X63535
104317	ttgtcactgtcctgtatatcacgga	K00988
104318	tgtcactgtcctgtatatcacggaa	K00988
104319	gtcactgtcctgtatatcacggaaa	K00988
104320	tcactgtcctgtatatcacggaaat	K00988
104321	cactgtcctgtatatcacggaaata	K00988
104322	actgtcctgtatatcacggaaataa	K00988
104323	ctgtcctgtatatcacggaaataaa	K00988
104324	tgtcctgtatatcacggaaataaat	K00988
104325	gtgacgttctttgtcactgtcctgt	K00988
104326	tgacgttctttgtcactgtcctgta	K00988
104327	gacgttctttgtcactgtcctgtat	K00988
104328	acgttctttgtcactgtcctgtata	K00988
104329	cgttctttgtcactgtcctgtatat	K00988
104330	gttctttgtcactgtcctgtatatc	K00988
104331	ttctttgtcactgtcctgtatatca	K00988
104332	tctttgtcactgtcctgtatatcac	K00988
104333	gagcctgcttctcctgttttccaga	L26528
104334	gcttctcctgttttccagactccag	L26528
104335	gacattctgggctctgcctcctgcc	L26528
104336	ctcctgctcctgcctgtagatttat	L26528
104337	ctccgtgtctggtcaggaacctgtc	L26528
104338	tcaggaacctgtctgcaagtgaagc	L26528
104339	caatatcttcgtgttttgtatatac	L26528
104340	tatatacaactgctcttgtagcctt	L26528
104341	tctcgaactcttattctccctgtag	L26528
104342	actcttattctccctgtagcccttg	L26528
104343	attctccctgtagcccttgcactgt	L26528
104344	gcactgttgcccgttactaaaatgt	L26528
104345	gagatcgaaaccgcctttcctctct	L26528
104346	ataagccacttctgtacagaaacct	L26528
104347	tggccagttgaccagctggccctgt	L26528
104348	gttgaccagctggccctgtatcctc	L26528
104349	catcccaaactctctctgagctgat	L26528
104350	aaactctctctgagctgatacccga	L26528
104351	tctctgagctgatacccgaagagcc	L26528
104352	agctgatacccgaagagccaggcat	L26528
104353	aagagccaggcatcagaggctgagc	L26528
104354	ggatgtttcttctttgattatcaaa	L42177
104355	ctttcctgtgtcctcagctaacaaa	L42177
104356	tttccaacatccatcgctgcagcag	L42177
104357	atcgctgcagcagacggtgtccctc	L42177
104358	gtccctcagtgacttgagagacaag	L42177
104359	gccgtgctctgctagctttgaccgt	L42177
104360	ctctgctagctttgaccgtgggcat	L42177
104361	tgctagctttgaccgtgggcatgga	L42177
104362	tgaccgtgggcatggagatttaccc	L42177
104363	tggagatttacccgcactgtgaact	L42177
104364	agatttacccgcactgtgaactctc	L42177
104365	tttacccgcactgtgaactctctaa	L42177
104366	gtcctcagctaacaaaggcaggact	L42177
104367	aggcaggactccagctggacttctg	L42177
104368	gactccagctggacttctgcagctt	L42177
104369	tccagctggacttctgcagcttcct	L42177
104370	acttctgcagcttccttccgagtct	L42177
104371	cgcactactggactgtggaaggaag	L42177
104372	gaacggtttccaacatccatcgctg	L42177
104373	cggtttccaacatccatcgctgcag	L42177
104374	tcgggatccttcgcagagctccgga	S80989
104375	ggatccttcgcagagctccggagca	S80989
104376	accaacagaaccaggcagtctttct	S80989
104377	agaaccaggcagtctttctcccata	S80989
104378	accaggcagtctttctcccatatat	S80989
104379	aggcagtctttctcccatatataca	S80989
104380	tctttctcccatatatacacctgta	S80989
104381	ttctcccatatatacacctgtatat	S80989
104382	atatacacctgtatatagaaaatgt	S80989
104383	ttgaactaatcacttctctttattc	S80989
104384	taatcacttctctttattcccttca	S80989

TABLE 1

SEQ ID NO	sequence	DBAxnID
19177	ctctcacagctcaacttaaatgagt	U22015
19178	tcacagctcaacttaaatgagtctc	U22015
19179	aacttaaatgagtctcccatcaagt	U22015
19180	tctcccatcaagtcttttgttcctg	U22015
19181	atcaagtcttttgttcctgtttcag	U22015
19182	tcttttgttcctgtttcagaagcta	U22015
19183	gttcctgtttcagaagctacaaatt	U22015
19184	ttttgtctctctccagtcttgaaca	U18366
19185	tctccagtcttgaacacttttgtct	U18366
19186	tccagctcatagagatccacttgcc	U18366
19187	tcatagagatccacttgcctccgac	U18366
19188	tagagatccacttgcctccgactcc	U18366
19189	tctgtctccctgtgatccatatggg	U18366
19190	gtctccctgtgatccatatgggtat	U18366
19191	acccttactttgtctcatggaggtg	U18366
19192	cttactttgtctcatggaggtgaca	U18366
19193	actttgtctcatggaggtgacaatt	U18366
19194	cttgtccctggtggcaaggccatt	U18366
19195	taccgccctaggctggtcaatggag	U18366
19196	ccagtcttgaacacttttgtctccg	U18366
19197	gtcttgaacacttttgtctccgaga	U18366
19198	cttgcttgcttgcttgttgttgaga	U18366
19199	ttgcttgttgttgagacagggtctc	U18366
19200	acagggtctcaccatatagctctgg	U18366
19201	tctcaccatatagctctggatggcc	U18366
19202	caccatatagctctggatggcctgg	U18366
19203	ctggcctccagctcatagagatcca	U18366
19204	tgtttagcggtgccagactgaagct	X86405
19205	ttagcggtgccagactgaagctccg	X86405
19206	ctctctgagagaccctcaaagtttt	X86405
19207	tctgagagaccctcaaagtttttga	X86405
19208	aggtgtagctcagtcagtagagtgc	X86405
19209	gtgctgcatctgcaagagcaaatct	X86405
19210	tacctaaaaccaggaatggcagtgc	X86405
19211	tgtaatcccagcactcctgaggtac	X86405
19212	aatcccagcactcctgaggtacaag	X86405
19213	actcctgaggtacaagcaggaagat	X86405
19214	aagttcgaagccagcctgagctagt	X86405
19215	ttcgaagccagcctgagctagttga	X86405
19216	gtgccagactgaagctccggccttc	X86405
19217	ccagactgaagctccggccttccgg	X86405
19218	ggccttccggtgtaccaagcaagtg	X86405
19219	gttgtactcctgagtcaggttttct	X86405
19220	ctcctgagtcaggttttcttcagtt	X86405
19221	gttttcttcagttagatgctaacta	X86405
19222	atgctaactaagctctctgagagac	X86405
19223	ctaactaagctctctgagagaccct	X86405
19224	gtactgatctgctgaaggaagagtg	W62615
19225	agtgcgctgctattttcgcatacga	W62615
19226	aagtgcgtgacggattcgcatacct	W62615
19227	acggattcgcataccttgatacttg	W62615
19228	gattcgcataccttgatacttgtct	W62615
19229	agcaagatcagcaacatcagttctg	W62615
19230	agcaacatcagttctgaggcattcg	W62615
19231	aacatcagttctgaggcattcgcat	W62615
19232	atcagttctgaggcattcgcatctc	W62615
19233	agttctgaggcattcgcatctctcg	W62615
19234	tctgaggcattcgcatctctcgtgt	W62615
19235	ttcgcatctctcgtgtagttgcaga	W62615
19236	gcgctgctattttcgcatacgacac	W62615
19237	ctgctattttcgcatacgacacaag	W62615
19238	ctatttttcgcatacgacacaagctg	W62615
19239	ttttcgcatacgacacaagctggct	W62615
19240	tcgcatacgacacaagctggctagg	W62615
19241	catacgacacaagctggctaggaat	W62615
19242	acgacacaagctggctaggaattgc	W62615
19243	aaagtaggtgccttcaagtgcgtga	W62615
19244	gacatagtgcgctggtgagatgcat	W62622
61781	cctgtgcgatgcactgggaatgcct	X63535
61782	cgatgcactgggaatgcctgctttc	X63535
61783	ctcatttggggccatgttgcccctt	X63535
61784	agtcccctatgcctgttctgaagtg	X63535
61785	ctatgcctgttctgaagtgtggact	X63535
61786	gcctccagagaggctcagatcacat	X63535
61787	gctcagatcacataaaacttttgtc	X63535
61788	cctcagcatctaagtcacaagaggc	X63535
61789	tcacataaaacttttgtcagtcact	X63535
61790	taaccacttctaatgctggacacct	X63535
61791	cttctaatgctggacacctctaggt	X63535
61792	atgctggacacctctaggttctatg	X63535
61793	tctaggttctatgctgctttttgcc	X63535
61794	aatgcccaagaatacatatgtctaa	X63535
61795	ttaaatctctaagcactatggagcc	X63535
61796	ctctaagcactatggagccaatgtt	X63535
61797	ccttcacctttgccaggagcagcc	X76505
61798	agcagccctattcccagctgtcgga	X76505
61799	ttcagcaaggagccgagtgatgatg	X76505
61800	gatgatgcatcagcacctggcagtg	X76505
61801	gcacctggcagtgttcctgtggccc	X76505
61802	gttcctgtggcccagatccttccca	X76505
61803	gtggcccagatccttcccacaagac	X76505
61804	cactccagctggacattcaatggac	X76505
61805	acattcaatggacccgagagacaga	X76505
61806	agaattagtcactctgccctctctg	X76505
61807	tccctgctccctactattgactcat	X76505
61808	ctccctactattgactcatatatac	X76505
61809	cccagctgtcggatgagcaggttat	X76505
61810	acactggagagttcttccgagacca	X76505
61811	gagagttcttccgagaccaagggag	X76505
61812	ggcagatctatctccctcaaccagc	X76505
61813	gccccgactctgtgtataagctgat	X76505
61814	gagaaaccaagcaccggccatcctt	X76505
61815	catccttccaggaaatacacctcct	X76505
61816	acctcctgcttcttcagcaaggagc	X76505
61817	aggaacactcccgtagctccttcat	U51002
61818	actcccgtagctccttcatccattg	U51002
61819	gtgcagatttccccacatttatttg	U51002
61820	cagatttccccacatttatttgtat	U51002
61821	aaagctgcgacgtagcagtgacctc	U51002
61822	acgtagcagtgacctcagcagtccc	U51002
61823	tagcagtgacctcagcagtccctat	U51002
61824	cagtgacctcagcagtccctatgtt	U51002
61825	tgacctcagcagtccctatgttttc	U51002
61826	ctaaagtctttgttcttgaaatgca	U51002
61827	aagtctttgttcttgaaatgcaagg	U51002
61828	tgaaagcaacatactcttaatgttg	U51002
61829	gtagctccttcatccattgccagtg	U51002
61830	gctccttcatccattgccagtggag	U51002
61831	aggtgcctttgcggatgacctcatt	U51002
61832	tgcctttgcggatgacctcattttg	U51002
61833	ctttgcggatgacctcattttgatg	U51002
61834	tgcggatgacctcattttgatgtta	U51002
61835	ggatgacctcattttgatgttaaaa	U51002
61836	gctcgaacttcgatgcagagtttgt	U51002
61837	acagacgccatctttgatgagtggc	X63349
61838	tggcctcaggaactggcacccattg	X63349
61839	cgcaaaggctatgcgcccttaatgg	X63349
61840	ggctatgcgcccttaatggagacag	X63349
61841	catgctcctacctggcctgacctgg	X63349
61842	aggtggaactcttcagcgtgtgctc	X63349
61843	aactcttcagcgtgtgctctttagt	X63349
61844	tcagcgtgtgctctttagtagtgat	X63349
61845	tgatgccttagcaatgacaattatc	X63349
61846	aatgacaattatctctagttgctgc	X63349
61847	ttgctgctttgcttattgtacacag	X63349
61848	tacacagacaaaatgcttgggtcat	X63349
104385	ctctttattcccttcatcttgagga	S80989
104386	tccttcgcagagctccggagcagac	S80989
104387	gcagagctccggagcagacgcgcgc	S80989
104388	agcagacgcgcgcgtgtccagaaat	S80989
104389	tatttatctgcattcctcacgccag	S80989
104390	ttatctgcattcctcacgccagagc	S80989
104391	ccagagcacctgctttctacacaaa	S80989
104392	tctacacaaaaccaaacaactcgcg	S80989
104393	accaccaacagaaccaggcagtctt	S80989
104394	ctagagtctctgaacactgagttta	Z25524
104395	aaattgattccgagtgagactcgcc	Z25524
104396	ataacaagactgccacttctgggtc	Z25524
104397	ccacttctgggtcatagtgatagag	Z25524
104398	ggcccctctgtgtgctatgatattg	Z25524
104399	tgacatacagtgcacccccagttttg	Z25524
104400	acagtgcacccccagttttgaataca	Z25524
104401	ccctgtcccgttctgctactttgat	Z25524
104402	tttctcctctttaaacatggtcctg	Z25524
104403	aggagccagacttattcgcaaagca	Z25524
104404	cagacttattcgcaaagcactgtgc	Z25524
104405	tattcgcaaagcactgtgctcaaac	Z25524
104406	attccgagtgagactcgccaagcac	Z25524
104407	aaagcactgtgctcaaactcttcag	Z25524
104408	actcgccaagcactaacctgagggt	Z25524
104409	tccagcaagccttagtaaactcagg	Z25524
104410	tagtaaactcaggttgccagcagct	Z25524
104411	actcaggttgccagcagctttgcca	Z25524
104412	agcagctttgccacttccgctgcta	Z25524
104413	tttgccacttccgctgctagctgaa	Z25524
104414	acttccgctgctagctgaataacaa	Z25524
104415	acagcccactgggatcacagcattt	Z37988
104416	tgggatcacagcatttcggggaaca	Z37988
104417	agccccgcttcaagctctctgttca	Z37988
104418	ttcagctccgcgttctcatgcttct	Z37988
104419	gcgttctcatgcttctcatggggtg	Z37988
104420	ttcctccgactttgcttttgcaggt	Z37988
104421	ctccgactttgcttttgcaggtctt	Z37988
104422	ttttgcaggtctttcactgcagatg	Z37988
104423	tgcaggtctttcactgcagatgggg	Z37988
104424	aggtctttcactgcagatggggctg	Z37988
104425	tctttcactgcagatggggctgctg	Z37988
104426	ttcactgcagatggggctgctgtgg	Z37988
104427	gatcacagcatttcggggaacattg	Z37988
104428	cacagcatttcggggaacattgcca	Z37988
104429	attgccacaccagtcagagagccca	Z37988
104430	gccacaccagtcagagagcccagaa	Z37988
104431	acaccagtcagagagcccagaacac	Z37988
104432	agagagcccagaacacctgggcaag	Z37988
104433	gagcccagaacacctgggcaagtag	Z37988
104434	cccagaacacctgggcaagtaggcg	Z37988
104435	gacccagtgggctcttaccagagag	X80686
104436	ggctcttaccagagagactctttca	X80686
104437	ttcatttctgcagccgagagggatg	X80686
104438	tctgcagccgagagggatgtgtata	X80686
104439	tatactggagatgctctcaggatct	X80686
104440	gatgctctcaggatctgcatcgtga	X80686
104441	gctctcaggatctgcatcgtgacca	X80686
104442	ctcaggatctgcatcgtgaccaaag	X80686
104443	atctgcatcgtgaccaaagagggca	X80686
104444	tgcatcgtgaccaaagagggcatca	X80686
104445	gactgacgtgcgggtcatatattgg	X80686
104446	atattggagctgtggcacagtttgt	X80686
104447	tcttaccagagagactctttcaagg	X80686
104448	tcagcaagtgccatgctgcagcctc	X80686
104449	gccatgctgcagcctctgctcgaca	X80686
104450	atgctgcagcctctgctcgacaacc	X80686
104451	ctgcagcctctgctcgacaaccagg	X80686
104452	gtccccctgacgctggacagagcca	X80686

TABLE 1

SEQ ID NO	sequence	DBAxnID
19245	gacctgcataacaacacaagtagag	W62622
19246	gaggcaaccgaacctctcgtgcagt	W62622
19247	gaacctctcgtgcagttgtaaagac	W62622
19248	taaagactttacctgtctaagcatc	W62622
19249	agactttacctgtctaagcatcatc	W62622
19250	tacctgtctaagcatcatctacagg	W62622
19251	ctgtctaagcatcatctacaggaac	W62622
19252	tctaagcatcatctacaggaactgc	W62622
19253	aagcatcatctacaggaactgcctg	W62622
19254	catctacaggaactgcctgtcaaaa	W62622
19255	caggaactgcctgtcaaaatgcaca	W62622
19256	ctgcataacaacacaagtagagaga	W62622
19257	atcatagaacgggcctgcaagtgac	W62622
19258	atagaacgggcctgcaagtgactga	W62622
19259	cataccttgaccgttgtcagcagca	W62622
19260	ttgaccgttgtcagcagcaagatca	W62622
19261	accgttgtcagcagcaagatcagtg	W62622
19262	atcagtgacatcagtccagaggcaa	W62622
19263	agtgacatcagtccagaggcaaccg	W62622
19264	tgaaagtccagctcaagggcagagg	W62422
19265	gaaagtccagctcaagggcagaggc	W62422
19266	agcgctatggtccaatggataagcc	W62422
19267	ggataagcctcaggtgatagagaag	W62422
19268	agctgctgtgctatctctagctagc	W62422
19269	gctgctgtgctatctctagctagca	W62422
19270	tgctgtgctatctctagctagcact	W62422
19271	gctgtgctatctctagctagcacta	W62422
19272	tgtgctatctctagctagcactaca	W62422
19273	gctatctctagctagcactacaaga	W62422
19274	tctagctagcactacaagagtgtgt	W62422
19275	ctagctagcactacaagagtgtgtc	W62422
19276	aagtccagctcaagggcagaggcat	W62422
19277	agctagcactacaagagtgtgtccc	W62422
19278	ggaactttaccaagtatctcatgaa	W62422
19279	gaactttaccaagtatctcatgaat	W62422
19280	actttaccaagtatctcatgaatat	W62422
19281	ttaccaagtatctcatgaatatgag	W62422
19282	taccaagtatctcatgaatatgagc	W62422
19283	tgaagcgctatggtccaatggataa	W62422
19284	gaagcgctatggtccaatggataag	W62422
19285	gccagcagagcccaggcaggctcca	X53753
19286	agagcccaggcaggctccactgtgg	X53753
19287	gtttgtgccactgatttagccacat	X53753
19288	gccactgatttagccacatgaacat	X53753
19289	gatttagccacatgaacatcatctc	X53753
19290	gccacatgaacatcatctcatcgcc	X53753
19291	cctctcctgaagctgcggtctctaa	X53753
19292	ctgaagctgcggtctctaaagtgcc	X53753
19293	tctctaaagtgccatctcattgtgc	X53753
19294	aagtgccatctcattgtgctttgta	X53753
19295	catctcattgtgctttgtatcagtc	X53753
19296	atcagtcagtgctggagaaatcttg	X53753
19297	ggctccactgtgggagacctcagtg	X53753
19298	ggagacctcagtgctctgcaccaac	X53753
19299	ctcagtgctctgcaccaactcttag	X53753
19300	caccaactcttagccaaacaacagg	X53753
19301	tcagctttggtgtctttgaacaatt	X53753
19302	ttttactttttccatcagatgtgac	X53753
19303	agggcctcatgcatgttagttaggc	X53753
19304	ccctttcctaactgctcaaagatgg	X53753
19305	aatgcctatatgttaactttgattt	L35556
19306	aatgtgaatcagtgctcgtgaatga	L35556
19307	gtatccaccagtgtatcagcattaa	L35556
19308	gcaacaatgcagtctcgccctacca	L35556
19309	tctcgccctaccagcaagtgattga	L35556
19310	gatcagaggctcccaactgggcaac	L35556
19311	gggcaacccaagactctggcttcta	L35556
19312	caacccaagactctggcttctatta	L35556

SEQ ID NO:	sequence	DBAxnID
61849	ccaccggtgactaatgaggagctct	X63349
61850	cttggctacaattacgccgttgatc	X63349
61851	tacaattacgccgttgatctgtcag	X63349
61852	gaagctccagtttggtccacaactc	X63349
61853	tggtccacaactctctcagtggtca	X63349
61854	ttgctcttggggttgctggcttttc	X63349
61855	ttgctggcttttcttcaatacagaa	X63349
61856	cttcaatacagaaggcttcgcaaag	X63349
61857	tggagctcctgatgatggccctcct	X15769
61858	tcctgatgatggccctcctggagag	X15769
61859	accttggcttgcctctgagggagat	X15769
61860	aattttctgttgatagtgggcatgt	X15769
61861	cttactgcacttgctgtctttccaa	X15769
61862	actgcacttgctgtctttccaaaag	X15769
61863	gcacttgctgtctttccaaaaggcc	X15769
61864	aaaggccacttcctactgctcaact	X15769
61865	ctgctcaactccctttggtatactg	X15769
61866	tccctttggtatactgcacgtgtta	X15769
61867	ctttggtatactgcacgtgttataa	X15769
61868	tggtatactgcacgtgttataaccc	X15769
61869	ccctgaaggccctgatggtccagag	X15769
61870	aggccctgatggtccagaggagaag	X15769
61871	gcgacgtagtcaccgaagtgagagg	X15769
61872	agaccgtgatcgggatcgagagcac	X15769
61873	gtacatggccccagagaatggatat	X15769
61874	gtggacatgctcctaatcttgctgt	X15769
61875	ctgtctgccttcctagccttttcca	X15769
61876	ttttccaccttggcttgcctctgag	X15769
61877	gtcctcgcctactcgagcggttcat	AA052388
61878	tcctcgcctactcgagcggttcata	AA052388
61879	ctcgagcggttcatatgcaggccat	AA052388
61880	cggttcatatgcaggccatcaagtg	AA052388
61881	ggttcatatgcaggccatcaagtgt	AA052388
61882	ttcatatgcaggccatcaagtgtgt	AA052388
61883	gaaaccagttgaatccggtcctatg	AA052388
61884	ttgaatccggtcctatgggacacat	AA052388
61885	atccggtcctatgggacacatctgt	AA052388
61886	tccggtcctatgggacacatctgta	AA052388
61887	ccggtcctatgggacacatctgtac	AA052388
61888	cggtcctatgggacacatctgtaca	AA052388
61889	cctcgcctactcgagcggttcatat	AA052388
61890	ctcgcctactcgagcggttcatatg	AA052388
61891	tcgcctactcgagcggttcatatgc	AA052388
61892	gcctactcgagcggttcatatgcag	AA052388
61893	cctactcgagcggttcatatgcagg	AA052388
61894	ctactcgagcggttcatatgcaggc	AA052388
61895	tactcgagcggttcatatgcaggcc	AA052388
61896	actcgagcggttcatatgcaggcca	AA052388
61897	agccgaatgacagccggcagcaact	X64587
61898	ccgaatgacagccggcagcaactgg	X64587
61899	tgcaggaccacagctcccgtccttt	X64587
61900	caggaccacagctcccgtccttgg	X64587
61901	tggcttctggtccttcctgttctcc	X64587
61902	cttctccttagtcttcctgactcaa	X64587
61903	tctccttagtcttcctgactcaacc	X64587
61904	cttagtcttcctgactcaacccgtg	X64587
61905	tagtcttcctgactcaacccgtggt	X64587
61906	gtcttcctgactcaacccgtggtct	X64587
61907	tctctggcagtttcatatttgctaa	X64587
61908	tttcatatttgctaatacgaatttg	X64587
61909	gaatgacagccggcagcaactggaa	X64587
61910	gacagccggcagcaactggaatggc	X64587
61911	cagccggcagcaactggaatggcag	X64587
61912	ggcaagtgcacacaggcccacacag	X64587
61913	caagtgcacacaggcccacacagac	X64587
61914	aattttgttgtctggccctcagtgc	X64587
61915	ttttgttgtctggccctcagtgccc	X64587
61916	ttgttgtctggccctcagtgccctg	X64587

SEQ ID NO	sequence	DBAxnID
104453	cccctgacgctggacagagccatga	X80686
104454	acgctggacagagccatgaggctgg	X80686
104455	atgtttatcgagggacaggaatgag	
104456	aggtccaaaaacatctaatagatag	
104457	ggcattgcccttgagttattaaagg	
104458	gcattgcccttgagttattaaaggc	
104459	cattgcccttgagttattaaaggca	
104460	ggtccaaaaacatctaatagatagt	
104461	tccaaaaacatctaatagatagtat	
104462	gtattaaggcattgcccttgagtta	
104463	tattaaggcattgcccttgagttat	
104464	attaaggcattgcccttgagttatt	
104465	ttaaggcattgcccttgagttatta	
104466	taaggcattgcccttgagttattaa	
104467	aggcattgcccttgagttattaaag	
104468	atgtttatcgagggacaggaatgag	
104469	aggtccaaaaacatctaatagatag	
104470	ggcattgcccttgagttattaaagg	
104471	gcattgcccttgagttattaaaggc	
104472	cattgcccttgagttattaaaggca	
104473	ggtccaaaaacatctaatagatagt	
104474	tccaaaaacatctaatagatagtat	
104475	gtattaaggcattgcccttgagtta	
104476	tattaaggcattgcccttgagttat	
104477	attaaggcattgcccttgagttatt	
104478	ttaaggcattgcccttgagttatta	
104479	taaggcattgcccttgagttattaa	
104480	aggcattgcccttgagttattaaag	
104481	atgtttatcgagggacaggaatgag	
104482	aggtccaaaaacatctaatagatag	
104483	ggcattgcccttgagttattaaagg	
104484	gcattgcccttgagttattaaaggc	
104485	cattgcccttgagttattaaaggca	
104486	ggtccaaaaacatctaatagatagt	
104487	tccaaaaacatctaatagatagtat	
104488	gtattaaggcattgcccttgagtta	
104489	tattaaggcattgcccttgagttat	
104490	attaaggcattgcccttgagttatt	
104491	ttaaggcattgcccttgagttatta	
104492	taaggcattgcccttgagttattaa	
104493	aggcattgcccttgagttattaaag	
104494	gcccagttccatcacctcttgaatt	X59474
104495	ttccatcacctcttgaattgaactt	X59474
104496	actcaactcatcagaggtcgaagga	X59474
104497	ctcatcagaggtcgaaggaaggcct	X59474
104498	aaggccttttggctttgatctggag	X59474
104499	ttttggctttgatctggagtcagcc	X59474
104500	ctttgatctggagtcagcccatcct	X59474
104501	gtcagcccatcctttcgggcttctc	X59474
104502	ccttccaactcagttcagtgccttt	X59474
104503	aactcagttcagtgcctttgagctt	X59474
104504	gttcagtgcctttgagcttagagag	X59474
104505	tgcctttgagcttagagagttcttc	X59474
104506	ttgaccagttctctcgaagactttc	X59474
104507	gactttcccaaacttcacagccttg	X59474
104508	cttcacagccttggtgatccctctc	X59474
104509	agccttggtgatccctctcaaggcc	X59474
104510	ccctctcaaggccgaggcaccagtt	X59474
104511	ttagagcttgtcccaggaaactggg	X59474
104512	ggatcctacaggtcttgggacctgg	X59474
104513	gggaacactcaactcatcagaggtc	X59474
104514	ccacagcgaacagatgcgcgagagc	X64263
104515	tgagctcaagagcaaccctaccttg	X64263
104516	tgtgatcgacaaggccagcgagact	X64263
104517	tctgactgcccagtgaggtgcccgc	X64263
104518	gcattggctttcttacaataaacct	X64263
104519	gtgccgcactggggattcctttgta	X64263
104520	ggattcctttgtacgcgacatctca	X64263

TABLE 1

SEQ ID NO	sequence	DBAxnID
19313	cccaagactctggcttctattaaag	L35556
19314	actctggcttctattaaaggattat	L35556
19315	agacacagtagccattgtgtataaa	L35556
19316	catgtttgctacaaattttggagaa	L35556
19317	atgacttcttcctggtagcgtgtct	L35556
19318	acttcttcctggtagcgtgtctgga	L35556
19319	tcttcctggtagcgtgtctggagga	L35556
19320	acttcattgagaatgcccgtctctt	L35556
19321	agaatgcccgtctcttcatatttga	L35556
19322	gtctcttcatatttgagacgttttg	L35556
19323	tcttcatatttgagacgttttgtcg	L35556
19324	cgttttgtcgtatccaccagtgtat	L35556
19325	acatgcttcagctgaaggtccgagc	W62672
19326	catgcttcagctgaaggtccgagca	W62672
19327	cagcacagtagacaccgctgttaac	W62672
19328	agtagacaccgctgttaacattgtc	W62672
19329	gcagtacatcaacgactacatgaag	W62672
19330	agctgcagacacgttaagcacgacc	W62672
19331	agacacgttaagcacgaccttgcta	W62672
19332	acacgttaagcacgaccttgctaat	W62672
19333	gttaagcacgaccttgctaatgtca	W62672
19334	ataactaccagttatgtattcgtgt	W62672
19335	aactaccagttatgtattcgtgtca	W62672
19336	actaccagttatgtattcgtgtcaa	W62672
19337	atgcttcagctgaaggtccgagcag	W62672
19338	tgcttcagctgaaggtccgagcagg	W62672
19339	gcttcagctgaaggtccgagcaggc	W62672
19340	cttcagctgaaggtccgagcaggcg	W62672
19341	ttcagctgaaggtccgagcaggcga	W62672
19342	tcagctgaaggtccgagcaggcgaa	W62672
19343	aaggtccgagcaggcgaaggtacag	W62672
19344	gcagcacagtagacaccgctgttaa	W62672
19345	ttcagtctgggctcagtctggggac	U19939
19346	atggaaagtcacactctccacagtg	U19939
19347	agttggccacaattcaagcaacgag	U19939
19348	ttcaagcaacgagatgttggagaga	U19939
19349	ggacatatccatgcccctcttctta	U19939
19350	taggcccaagcaggccttcctgtgg	U19939
19351	tcctgtcaccccaaagggtggcatc	U19939
19352	caccccaaagggtggcatctgcacc	U19939
19353	cacctgtgccagggactaatattct	U19939
19354	aggcccttcaggctccgaaagcaag	U19939
19355	ctctgtccctggagcagaagagggg	U19939
19356	gggcaagccaacagacttgaaaagg	U19939
19357	actctccacagtgccagacagaagg	U19939
19358	gaggatcccccaaatcagagtatgc	U19939
19359	cccccaaatcagagtatgcctggga	U19939
19360	agtatgcctgggagtgattgaaaca	U19939
19361	cccaggatctcagtgacatcagcca	U19939
19362	atctcagtgacatcagccaggcatc	U19939
19363	gtgacatcagccaggcatctgtgga	U19939
19364	tcagccaggcatctgtggagttggc	U19939
19365	aaagcattattgctatccaagagaa	W62646
19366	gcattattgctatccaagagaacga	W62646
19367	acaaggcattgctccatcagggcca	W62646
19368	aggcattgctccatcagggccagcg	W62646
19369	cattgctccatcagggccagcggga	W62646
19370	gaagtttgagccacacacataaagt	W62646
19371	gtttgagccacacacataaagtcct	W62646
19372	tgagccacacacataaagtcctgat	W62646
19373	acacacataaagtcctgatgtctgc	W62646
19374	cacataaagtcctgatgtctgccag	W62646
19375	tcctgatgtctgccagaacttggaa	W62646
19376	tgatgtctgccagaacttggaagaa	W62646
19377	ttgctatccaagagaacgagcttaa	W62646
19378	tgcagcggcacacgaccacctcgag	W62646
19379	agcggcacacgaccacctcgaggcg	W62646
19380	cgaccacctcgaggcgcagaagcag	W62646
61917	tgagcccaagctaggactctgcagc	X60831
61918	gctaggactctgcagccttggagcc	X60831
61919	tggtgagacctccacacctgcagcc	X60831
61920	acctgcagcctgcagcaaggtggat	X60831
61921	agcctgcagcaaggtggatgttcgg	X60831
61922	ctttccttcccagatgggcttgcta	X60831
61923	ttcccagatgggcttgctacctgac	X60831
61924	acctgaccccacattgaactggagg	X60831
61925	tgcccctgcaggaaggagctacctg	X60831
61926	ttttaagctctgagctgtcaacgag	X60831
61927	taagctctgagctgtcaacgagacg	X60831
61928	gctctgagctgtcaacgagacgttt	X60831
61929	ctgcagccttggagcctcagctcca	X60831
61930	ccttggagcctcagctccagggttc	X60831
61931	tagcaaccatcagactgagccagcg	X60831
61932	caaccatcagactgagccagcgctg	X60831
61933	gactgagccagcgctggacgggccc	X60831
61934	cttctgcatttgcagttccggcatg	X60831
61935	ctgcatttgcagttccggcatggac	X60831
61936	ttgcagttccggcatggacaatgga	X60831
61937	taattattcggtctgcattcccagt	X51703
61938	aattattcggtctgcattcccagtg	X51703
61939	tggcattactctgcactctagccac	X51703
61940	ggcattactctgcactctagccact	X51703
61941	gcattactctgcactctagccactt	X51703
61942	attactctgcactctagccacttgc	X51703
61943	ttactctgcactctagccacttgcc	X51703
61944	tgcactctagccacttgccccaatt	X51703
61945	gcactctagccacttgccccaattt	X51703
61946	ctctagccacttgccccaatttaag	X51703
61947	tctagccacttgccccaatttaagt	X51703
61948	caataatagctgaacctctgttaaa	X51703
61949	ttattcggtctgcattcccagtggg	X51703
61950	tattcggtctgcattcccagtgggc	X51703
61951	attcggtctgcattcccagtgggca	X51703
61952	ttcggtctgcattcccagtgggcag	X51703
61953	cggtctgcattcccagtgggcagtg	X51703
61954	ggtctgcattcccagtgggcagtga	X51703
61955	tgatggcattactctgcactctagc	X51703
61956	atggcattactctgcactctagcca	X51703
61957	tcaccatgaccagcctatgaaaccc	X06358
61958	tgaccagcctatgaaaccctggac	X06358
61959	gagctcactgacaatgaactacatg	X06358
61960	gaacaaactttcagcctcattctta	X06358
61961	actttcagcctcattcttatttatg	X06358
61962	agcctcattcttatttatgaaccac	X06358
61963	ccttctaaacacttgacttgattct	X06358
61964	ttgacttgattcttttctaataaag	X06358
61965	atttttaccatataagaagacatat	X06358
61966	tactgatacattctcaaaaatctcc	X06358
61967	tacattctcaaaaatctccatttct	X06358
61968	ctcaaaaatctccatttctgtaatt	X06358
61969	cagggctgtcttctggattgagttt	X06358
61970	gcgccacaaaagagccaagcacctg	X06358
61971	agccaagcacctgagaccacttgga	X06358
61972	gcacctgagaccacttggacataac	X06358
61973	tggattcctactctcttgtgtggca	X06358
61974	ctcttgtgtggcaaccactatagtc	X06358
61975	tgtggcaaccactatagtccttagt	X06358
61976	tgtaaagtgcctcttgttcatttac	X06358
61977	cacttcatgtcactgaaggctcagg	X87242
61978	atgtcactgaaggctcaggacgcta	X87242
61979	tgcaccagtctggattcagcttgtc	X87242
61980	agtctggattcagcttgtctggtgc	X87242
61981	gattcagcttgtctggtgctcagat	X87242
61982	gcttgtctggtgctcagattgacga	X87242
61983	gcctgctaaagcccctagcctgcag	X87242
61984	taaagcccctagcctgcaggccact	X87242
104521	catctcagctcttaacgctcactca	X64263
104522	agctcttaacgctcactcaagctgg	X64263
104523	taacgctcactcaagctgggcacct	X64263
104524	ggcacctggctggttcagggtatga	X64263
104525	tggctggttcagggtatgagacaga	X64263
104526	caagagcaaccctaccttgaacgag	X64263
104527	gacagaatccttctaagaaggctcc	X64263
104528	taccttgaacgagtaccacaccagg	X64263
104529	aacccacctgaagacacttggcgag	X64263
104530	cctgaagacacttggcgagaaagcc	X64263
104531	cctgcgccatagtctgatgcccatg	X64263
104532	tctgatgcccatgctggagacgctt	X64263
104533	gacgcttaagaccaaagcccagagt	X64263
104534	caaagcccagagtgtgatcgacaag	X64263
104535	agataaatcctgatcactccattat	X16857
104536	atcctgatcactccattattgaaac	X16857
104537	ctggcttcagtctggaagatcccca	X16857
104538	cccagacccatgctaacaggatcta	X16857
104539	agacccatgctaacaggatctacag	X16857
104540	cccatgctaacaggatctacaggat	X16857
104541	tgatcaagcttggtctaggtattga	X16857
104542	atgatcctactgtggatgacaccag	X16857
104543	atcctactgtggatgacaccagtgc	X16857
104544	tggatgacaccagtgctgctgtaac	X16857
104545	atgacgacacatcacgcatggaaga	X16857
104546	acgacacatcacgcatggaagaagt	X16857
104547	ctgatcactccattattgaaaccttt	X16857
104548	atcactccattattgaaaccttaag	X16857
104549	atctggtcatcttgctgtatgaaac	X16857
104550	tggtcatcttgctgtatgaaactgc	X16857
104551	tcatcttgctgtatgaaactgcact	X16857
104552	tgtatgaaactgcactcctatcttc	X16857
104553	atgaaactgcactcctatcttctgg	X16857
104554	cttctggcttcagtctggaagatcc	X16857
104555	acgagcgcctctcgtgtctctcttt	X74856
104556	tcagacacatgatccgaaagaacaa	X74856
104557	gccagtgccatccttcgaagccaga	X74856
104558	cagtgccatccttcgaagccagaag	X74856
104559	gtgccatccttcgaagccagaagcc	X74856
104560	gccatccttcgaagccagaagcctg	X74856
104561	catccttcgaagccagaagcctgtg	X74856
104562	agccagaagcctgtggtggtgaaga	X74856
104563	ccacacgcccgaagcaataaagagt	X74856
104564	agagtccactgacttccattaggcc	X74856
104565	agtccactgacttccattaggccaa	X74856
104566	tccactgacttccattaggccaaaa	X74856
104567	caagtaccgccctgatctgcgtatg	X74856
104568	agtaccgccctgatctgcgtatggc	X74856
104569	taccgccctgatctgcgtatggcgg	X74856
104570	gccctgatctgcgtatggcggccat	X74856
104571	cctgatctgcgtatggcggccatcc	X74856
104572	atctgcgtatggcggccatccgcag	X74856
104573	catccgcagggccagtgccatcctt	X74856
104574	gggccagtgccatccttcgaagcca	X74856
104575	gtgacgaccgcacacgctttgtttg	D90151
104576	accgcacacgctttgtttggacgcg	D90151
104577	caggttaccctgttctagatcagga	D90151
104578	agggtctatttcctgttgccgctct	D90151
104579	atttgtgtcatacatttccagtaat	D90151
104580	gtcatacatttccagtaatggaagt	D90151
104581	tattttacacgtgtcctgattttgc	D90151
104582	acacgtgtcctgattttgccacgac	D90151
104583	gtcctgattttgccacgacctggat	D90151
104584	attttgccacgacctggatattgaa	D90151
104585	ccacgacctggatattgaagctatc	D90151
104586	tattgaagctatccaagcttttgaa	D90151
104587	ttgtttggacgcggagtgaacacaa	D90151
104588	aaacttttatggcctgtcccatgtg	D90151

TABLE 1

SEQ ID NO	sequence	DBAxnID
19381	gtatcatcaggccgtccagcacctg	W62646
19382	tcaggccgtccagcacctggaacag	W62646
19383	ggccgtccagcacctggaacagaag	W62646
19384	acttcaacaaggcattgctccatca	W62646
19385	ctcatcaactgccggggaccaatga	X62701
19386	ccaatgaatcagtgcctggtggcta	X62701
19387	ggccctgctcaactcagcctcattg	X62701
19388	agcctcattgcctctctgctcctga	X62701
19389	ctcctgaccctcggactatggggcg	X62701
19390	gtcctcctctggacctgactcctga	X62701
19391	ctctggacctggactcctgagccggc	X62701
19392	tcgtgttgtcttctttggacctcag	X62701
19393	tggacctcagtttttccatgaacca	X62701
19394	tcagtttttccatgaaccagaagag	X62701
19395	gtttttccatgaaccagaagagaat	X62701
19396	tttccatgaaccagaagagaattgg	X62701
19397	atgaatcagtgcctggtggctacag	X62701
19398	aatcagtgcctggtggctacaggct	X62701
19399	tgcctggtggctacaggcttagatg	X62701
19400	agttataccgtaagaggctgcgcca	X62701
19401	tgccaaggctcccacgtggcagact	X62701
19402	tgccacggcagcggctgtaacagcc	X62701
19403	cacggcagcggctgtaacagcccca	X62701
19404	agcggctgtaacagccccacagggg	X62701
19405	accactgtcaacactggccgaggga	W62742
19406	actgtcaacactggccgagggatgg	W62742
19407	gttgtcatctatttccagggcttcc	W62742
19408	gtcatctatttccagggcttccgag	W62742
19409	atctatttccagggcttccgagtgg	W62742
19410	ggcttccgagtggaccttccaatca	W62742
19411	gtggaccttccaatcaagtcggcgc	W62742
19412	gaccttccaatcaagtcggcgcgtt	W62742
19413	ccaatcaagtcggcgcgttaccgag	W62742
19414	gcgcgttaccgaggccagtacaaca	W62742
19415	ggccagtacaacacctatcccatca	W62742
19416	cagtacaacacctatcccatcaagc	W62742
19417	gaattcgaaggcgccatcatagcgc	W62742
19418	gaaggcgccatcatagcgctattcc	W62742
19419	atagcgctattccacctgctggcca	W62742
19420	acagacaaggtccgagcccttcgag	W62742
19421	aaggtccgagcccttcgagaggcat	W62742
19422	cgagcccttcgagaggcattctacc	W62742
19423	attgccaccatcttcgtctttgccg	W62742
19424	accatcttcgtctttgccgttgtca	W62742
19425	cacctctcgtgttcagttctattac	U33840
19426	gccaatctctcatttgaccgtattt	U33840
19427	tagcgtcccgtgttctaatgctctt	U33840
19428	cccgtgttctaatgctcttctaaga	U33840
19429	ttctaatgctcttctaagaaactga	U33840
19430	ttattgctcagcaataatcatgtca	U33840
19431	catgtcaccaggagttagcagcacg	U33840
19432	agttagcagcacgcctcatctcctg	U33840
19433	gcctcatctcctgatagcattatga	U33840
19434	tctcctgatagcattatgatgtttc	U33840
19435	ttgtttaccgtgtgttacatgtaag	U33840
19436	aattttgtaatgctcaagtgtctat	U33840
19437	tttaatctgcctgttttgacacatg	U33840
19438	ctgcctgttttgacacatgccgtct	U33840
19439	gttttgacacatgccgtctgtagta	U33840
19440	acacatgccgtctgtagtaaccgct	U33840
19441	aaccgctcgctgtgaggccccatct	U33840
19442	tcgctgtgaggccccatcttgacag	U33840
19443	tgaggccccatcttgacagtccaag	U33840
19444	ttgacagtccaagtgatcgtgacca	U33840
19445	catactctcctagaaggcggccaag	W62585
19446	ctcctagaaggcggccaagcccaag	W62585
19447	gtaggttatcaccttcagcaagtcc	W62585
19448	aggttatcaccttcagcaagtcctc	W62585

SEQ ID NO:	sequence	DBAxnID
61985	ccctagcctgcaggccacttgggga	X87242
61986	acacctgaggacattctgagacttc	X87242
61987	attctgagacttcctttcttccatt	X87242
61988	tgcactcggtctcccctggagtttc	X87242
61989	gctcaggacgctacattccccggaa	X87242
61990	tccctgactttgtgtacaaacgcat	X87242
61991	tgtacaaacgcatcaaagcaaggag	X87242
61992	tgacgcccaagacggtgactccagc	X87242
61993	ctccagcctcatcagctaagacatc	X87242
61994	agcaggcaccacctgttcggaacct	X87242
61995	ctgttcggaacctgcaccagtctgg	X87242
61996	ggaacctgcaccagtctggattcag	X87242
61997	gcctgctccattcctcagtctgaac	Z14044
61998	tgctccattcctcagtctgaacagt	Z14044
61999	atcaccacagtaaagcatctatact	Z14044
62000	accacagtaaagcatctatactcaa	Z14044
62001	gtaaagcatctatactcaatgctgt	Z14044
62002	aagcatctatactcaatgctgtcca	Z14044
62003	catctatactcaatgctgtccaagt	Z14044
62004	tcaatgctgtccaagtcctctctta	Z14044
62005	atgctgtccaagtcctctcttaccc	Z14044
62006	ctgtccaagtcctctcttaccctag	Z14044
62007	ggcctcagtttgctgggtgtttata	Z14044
62008	catgcttttgagttacgttggaaga	Z14044
62009	cctcagtctgaacagttcagcccag	Z14044
62010	gaacagttcagcccagtcagactct	Z14044
62011	ttcagcccagtcagactctggacag	Z14044
62012	ccagtcagactctggacaggggttt	Z14044
62013	gaattaccagcaaggaattgggtct	Z14044
62014	tgcaggtaacctgtgtggtgtgaac	Z14044
62015	taacctgtgtggtgtgaaccaagca	Z14044
62016	accatcaccacagtaaagcatctat	Z14044
62017	ctccgatcatcgcgatctactgcct	AA052503
62018	tcatcgcgatctactgcctattggt	AA052503
62019	ttgtcatctgtcctatatgcttagt	AA052503
62020	tctgtcctatatgcttagtcttcga	AA052503
62021	ctatatgcttagtcttcgaggcact	AA052503
62022	gcttagtcttcgaggcactgtcatg	AA052503
62023	tcttcgaggcactgtcatgcagact	AA052503
62024	aggcactgtcatgcagactcgactg	AA052503
62025	tgtcatgcagactcgactgttcatg	AA052503
62026	catctctgctgaggtgctacgcatc	AA052503
62027	ggtgctacgcatctactgtctcatc	AA052503
62028	acgcatctactgtctcatcgtggcc	AA052503
62029	cgatctactgcctattggttgcagt	AA052503
62030	actgcctattggttgcagtacttat	AA052503
62031	tcgctagctctctcgactgatgtca	AA052503
62032	gctctctcgactgatgtcatcaccc	AA052503
62033	aatgacctgactactagctttgcat	AA052503
62034	ctgactactagctttgcattgtcat	AA052503
62035	actagctttgcattgtcatctgtcc	AA052503
62036	tttgcattgtcatctgtcctatatg	AA052503
62037	agttaaactgcaggagtctggggct	X88902
62038	cttctggatacacattcactagcta	X88902
62039	tctattactgtgcaagggactatag	X88902
62040	ctattactgtgcaagggactatagg	X88902
62041	tattactgtgcaagggactataggt	X88902
62042	cacggtcaccgtctcctcagcgtgg	X88902
62043	caccgtctcctcagcgtggaggcat	X88902
62044	accgtctcctcagcgtggaggcatc	X88902
62045	gtctcctcagcgtggaggcatccac	X88902
62046	tctcctcagcgtggaggcatccaca	X88902
62047	ctcctcagcgtggaggcatccacag	X88902
62048	cctcagcgtggaggcatccacagtt	X88902
62049	ttctggatacacattcactagctat	X88902
62050	gaggcatccacagttcggaggctaa	X88902
62051	ctggatacacattcactagctatgt	X88902
62052	tggatacacattcactagctatgtt	X88902

SEQ ID NO	sequence	DBAxnID
104589	ttatggcctgtcccatgtgcatctt	D90151
104590	cctgtcccatgtgcatcttatttaa	D90151
104591	gaaatcactctcctgtttactattc	D90151
104592	actctcctgtttactattccagagc	D90151
104593	ctgtttactattccagagctctagt	D90151
104594	gtctcagaggccagagcggcactag	D90151
104595	ggccttttggcttccaggccatatt	W77688
104596	ccttttggcttccaggccatattgg	W77688
104597	gcggtgtccaacacagatctgatgg	W77688
104598	tgtccaacacagatctgatggattt	W77688
104599	tccaacacagatctgatggatttca	W77688
104600	tttcaagaacctgctagaccacctg	W77688
104601	gaacctgctagaccacctggaggag	W77688
104602	acctgctagaccacctggaggagaa	W77688
104603	ctgctagaccacctggaggagaaga	W77688
104604	tagaccacctggaggagaagatgcc	W77688
104605	cccgcaggcccttgagtgagcagac	W77688
104606	caggcccttgagtgagcagactgag	W77688
104607	ttggcttccaggccatattggagca	W77688
104608	ggcttccaggccatattggagcaaa	W77688
104609	cttccaggccatattggagcaaatc	W77688
104610	gagcaaatcctgtgtacagtgcggt	W77688
104611	gcaaatcctgtgtacagtgcggtgt	W77688
104612	aaatcctgtgtacagtgcggtgtcc	W77688
104613	atcctgtgtacagtgcggtgtccaa	W77688
104614	tgtacagtgcggtgtccaacacaga	W77688
104615	attgcttttctcattggtatgtacc	D00925
104616	catattactttactcttaattactg	D00925
104617	tctgtgactaaccacagtgatcatt	D00925
104618	ccacaggtatacttctgatgaattg	D00925
104619	tgaattgtccccaataggaagacat	D00925
104620	gtccccaataggaagacatgctatg	D00925
104621	tgactgtacttgcacttggaaacct	D00925
104622	tacttgcacttggaaacctactgac	D00925
104623	attaagcctgagaactgtgtaaatc	D00925
104624	cattaagctatgctctttgtgtatg	D00925
104625	gctatgctctttgtgtatggaggtt	D00925
104626	ctctttgtgtatggaggttgcaaaa	D00925
104627	actttactcttaattactgtgctca	D00925
104628	ctcttaattactgtgctcacaaagc	D00925
104629	attactgtgctcacaaagcctcgga	D00925
104630	gtgctcacaaagcctcggatccttg	D00925
104631	cctcggatccttggatctcttgcat	D00925
104632	atccttggatctcttgcatctgtga	D00925
104633	ggatctcttgcatctgtgactaacc	D00925
104634	cttgcatctgtgactaaccacagtg	D00925
104635	ccatggccttgtctgagttggtgac	X67140
104636	agttggtgaccatcgagatgtgcaa	X67140
104637	cccagtggctcatggtcctcaagat	X67140
104638	ttgctcggaactatctggagggata	X67140
104639	ctttgaaccgtgtcacagatccaga	X67140
104640	tgaaccgtgtcacagatccagaaga	X67140
104641	tcacagatccagaagacgaaagaag	X67140
104642	catcttcagccaaagctgaggcact	X67140
104643	cttcagccaaagctgaggcactgac	X67140
104644	cagccaaagctgaggcactgaccct	X67140
104645	tcccgaactcacggggcttgcaggc	X67140
104646	actgactagctgattgcttatttat	X67140
104647	ccctactgcggatgccaccctgggt	X67140
104648	tgcggatgccaccctgggtgaacat	X67140
104649	tgccaccctgggtgaacatctggct	X67140
104650	caccctgggtgaacatctggctgct	X67140
104651	acatctggctgctgggttccatctg	X67140
104652	tctggctgctgggttccatctgcct	X67140
104653	tgctgggttccatctgcctgtccat	X67140
104654	tcttcaagctccgggccctggactt	X67140
104655	ttccgcctagctaaggagaatgcac	L76223
104656	cctgccatcatcttcatagatgaaa	L76223

TABLE 1

SEQ ID NO	sequence	DBAxnID
19449	gttatcaccttcagcaagtcctcca	W62585
19450	tatcaccttcagcaagtcctccacg	W62585
19451	accttcagcaagtcctccacggcga	W62585
19452	cttcagcaagtcctccacggcgaag	W62585
19453	tcagcaagtcctccacggcgaagac	W62585
19454	agcaagtcctccacggcgaagacac	W62585
19455	cgaagacaccggccgtcatctccag	W62585
19456	aagacaccggccgtcatctccagca	W62585
19457	tagaaggcggccaagcccaagacga	W62585
19458	gcggccaagcccaagacgacgacca	W62585
19459	gaagaagaactccaccaagacggat	W62585
19460	agaagaactccaccaagacggatgc	W62585
19461	gaactccaccaagacggatgcctcc	W62585
19462	ctccaccaaggcaccggaggagtag	W62585
19463	gcatccctgtctggaagtagctcgt	W62585
19464	gtcctcttcatctcgttcccggtca	W62585
19465	gggaaccctgcttgcagtctattgc	U18812
19466	cctgcttgcagtctattgcatttac	U18812
19467	tttcataataccgtatagacactgc	U18812
19468	aataccgtatagacactgcttgaag	U18812
19469	ttttttacagcatgaacctgtctact	U18812
19470	cagcatgaacctgtctactcatgcc	U18812
19471	gaacctgtctactcatgccagcact	U18812
19472	gtctactcatgccagcactcaaaaa	U18812
19473	gcttatacctaaaaccataatggca	U18812
19474	agccctgaagtgtgccctccagcc	U18812
19475	tccagccaggtcataccctgtggag	U18812
19476	ataccctgtggaggtgagcgggatc	U18812
19477	catttacataccgcatttcagggca	U18812
19478	cataccgcatttcagggcacattag	U18812
19479	gcatttcagggcacattagcatcca	U18812
19480	gcatccactcctatggtagcacact	U18812
19481	actcctatggtagcacactgttgac	U18812
19482	ccttatccaaaatgcttgggactag	U18812
19483	attttagagtcttttcaggcatagg	U18812
19484	gagtcttttcaggcataggtatatt	U18812
19485	ccccctgagaatccatcttcatggcc	X58196
19486	ctgagaatccatcttcatggccaac	X58196
19487	ttggcaatgctgccccagtacccac	X58196
19488	gtcgtccatctccgtctgagggcaa	X58196
19489	ctccgtctgagggcaactgggtgtg	X58196
19490	cctcgcctagtctggaagcagttcc	X58196
19491	cagttccatcataaagtgttcaaca	X58196
19492	aaagtgttcaacatgccctacttca	X58196
19493	gtgttcaacatgccctacttcatcc	X58196
19494	ttcaacatgccctacttcatccttt	X58196
19495	tcaccagggccacaccagaggtcct	X58196
19496	tcctgggtccatcaataaatacagt	X58196
19497	catcttcatggccaactctgcctga	X58196
19498	ggccaactctgcctgacccgggaga	X58196
19499	atcatcctggagccaagcctctacc	X58196
19500	ctctaccccgggatgacttcatcat	X58196
19501	tttgttccttccttgcttgagagac	X58196
19502	gcactaagtcgattgcactggtttg	X58196
19503	ctaagtcgattgcactggtttggag	X58196
19504	ttgagtctctccgtatgaatgtata	X58196
19505	cagtgcagttgcagcgccgacagat	W62842
19506	tgcagcgccgacagatgctactaga	W62842
19507	gcgccattctcaggcacatcgacac	W62842
19508	ttctcaggcacatcgacacaggtgc	W62842
19509	ctgcgacaccttcgctgcctgggta	W62842
19510	cgacaccttcgctgcctgggtatcc	W62842
19511	tgcctgggtatccgccagggactcg	W62842
19512	ggtatccgccagggactcggagtgt	W62842
19513	tttttccgactgtcattattcgcta	W62842
19514	tcattattcgctatgcagcgaccgc	W62842
19515	ttattcgctatgcagcgaccgcttc	W62842
19516	ttcgctatgcagcgaccgcttctct	W62842
62053	ggatacacattcactagctatgtta	X88902
62054	tacacattcactagctatgttatgc	X88902
62055	ctgcggtctattactgtgcaaggga	X88902
62056	cggtctattactgtgcaagggacta	X88902
62057	ggtctattactgtgcaagggactat	X88902
62058	acaatgcgacctgcactcggggcta	AA052547
62059	cgacctgcactcggggctattagaa	AA052547
62060	ctctttattacaaacacttttcatg	AA052547
62061	ttattacaaacacttttcatggagc	AA052547
62062	attacaaacacttttcatggagctt	AA052547
62063	tacaaacacttttcatggagcttca	AA052547
62064	caaacacttttcatggagcttcatg	AA052547
62065	cacttttcatggagcttcatgtcag	AA052547
62066	cttttcatggagcttcatgtcagac	AA052547
62067	tcatggagcttcatgtcagacttgg	AA052547
62068	ggagcttcatgtcagacttggttta	AA052547
62069	gtcagacttggtttaccaggaatgt	AA052547
62070	ctgcactcggggctattagaagggg	AA052547
62071	gctcgattcagtgagcggtcaaatg	AA052547
62072	tcaaatgctacaaacagcttcactt	AA052547
62073	aaatgctacaaacagcttcacttct	AA052547
62074	atgctacaaacagcttcacttctttt	AA052547
62075	gctacaaacagcttcacttctttgg	AA052547
62076	tatttttcatgactgttgaggtctc	AA052547
62077	atgactgttgaggtctctttattac	AA052547
62078	agaagatcactatcacctgcagtgt	X88903
62079	aagatcactatcacctgcagtgtca	X88903
62080	tctcccctaaactcttgatttatag	X88903
62081	ctaaactcttgatttataggacatc	X88903
62082	tataggacatccaatctggcttctg	X88903
62083	taggacatccaatctggcttctgga	X88903
62084	tggcaccatggaggctgaagatgtt	X88903
62085	actactgccagcagggtagtagtat	X88903
62086	tactgccagcagggtagtagtatac	X88903
62087	gtagtataccattcacgttcggagg	X88903
62088	agtataccattcacgttcggaggag	X88903
62089	ccaagctcgagatcaaacgggaaca	X88903
62090	gatcactatcacctgcagtgtcagc	X88903
62091	agttccaaattcttgcattggtatc	X88903
62092	ttccaaattcttgcattggtatcag	X88903
62093	ccaaattcttgcattggtatcagca	X88903
62094	aaattcttgcattggtatcagcaga	X88903
62095	tcttgcattggtatcagcagaagcc	X88903
62096	gccaggattctcccctaaactcttg	X88903
62097	caggattctcccctaaactcttgat	X88903
62098	gggagtacatccatcagctgtgtga	Z49085
62099	agtacatccatcagctgtgtgagga	Z49085
62100	agcactacctcatgcgggccaatgt	Z49085
62101	acctcatgcgggccaatgtcacagc	Z49085
62102	ccaatgtcacagccattcgtagagt	Z49085
62103	atgtcacagccattcgtagagtccg	Z49085
62104	ataatcgcattgctagagcctgtgg	Z49085
62105	atcgcattgctagagcctgtggggc	Z49085
62106	ttgctagagcctgtggggcacggat	Z49085
62107	tagtcagccgacctgaggaactgag	Z49085
62108	ccagtaccattcgtctgcttacctc	Z49085
62109	ccattcgtctgcttacctccttcgg	Z49085
62110	aggacatcatccagctgaagcctga	Z49085
62111	cattcgtctgcttacctccttcggg	Z49085
62112	acatcatccagctgaagcctgacgt	Z49085
62113	tccagctgaagcctgacgtggtcat	Z49085
62114	tgaagcctgacgtggtcatcacaga	Z49085
62115	ctgacgtggtcatcacagagaaggg	Z49085
62116	tctcagatttagctcagcactacct	Z49085
62117	cagatttagctcagcactacctcat	Z49085
62118	ctcagcactacctcatgcgggccaa	Z49085
62119	ttccctgtaacagagtgcatcccta	X64361
62120	gtaacagagtgcatccctatgtcca	X64361
104657	accagcaaaatgaacctctctgagg	L76223
104658	aacctctctgaggaggtcgacctgg	L76223
104659	tatgtggcccgtccagataagattt	L76223
104660	ggaatgttggctgtccgtgagaccg	L76223
104661	ttggctgtccgtgagaccgcttaca	L76223
104662	gagaccgcttacattgtcctggcca	L76223
104663	gcttacattgtcctggccaaggact	L76223
104664	attgtcctggccaaggacttcgaga	L76223
104665	ctggccaaggacttcgagaaagcat	L76223
104666	tacaagaccgtgatcaagaaagatg	L76223
104667	attgatgccattgccaccaagagat	L76223
104668	gccattgccaccaagagattcgatg	L76223
104669	aggatcctgctggagctactgaatc	L76223
104670	atggccacaaacagagcagacacct	L76223
104671	gacaccttggatccagctctactgc	L76223
104672	ctactgcggccaggacgcctggacc	L76223
104673	ctccctgaccgtcgccagaagaggt	L76223
104674	accatcaccagcaaaatgaacctct	L76223
104675	cgccacttgtggcctggatattttc	X78990
104676	tttgaaacccaaagaatatgtatag	X78990
104677	atgttttcccttgtatcgattcata	X78990
104678	tcccttgtatcgattcatacataac	X78990
104679	tgactaagaacactctagttgagca	X78990
104680	ataatggacatgcctttgatcccag	X78990
104681	gacatgcctttgatcccagaacatt	X78990
104682	cctttgatcccagaacattgagatt	X78990
104683	atcccagaacattgagattaaggta	X78990
104684	tttcaaattctccagggaagcagtt	X78990
104685	attctccagggaagcagttttcagt	X78990
104686	agcagttttcagttatcttgttagt	X78990
104687	acttgtgctaatatcacctctctgc	X78990
104688	gctaatatcacctctctgccatgcc	X78990
104689	ccatgccttgactcaattttgcatg	X78990
104690	cttgactcaattttgcatgatttat	X78990
104691	atggatcctctcttgtgctacctct	X78990
104692	ttgtgctacctctgaggcttgctgt	X78990
104693	tacctctgaggcttgctgtagacgc	X78990
104694	tgaggcttgctgtagacgcgaaagg	X78990
104695	tgtgcaccattgcagcacgctgtcc	M75721
104696	cagctgggtgctgctgatggattat	M75721
104697	agatcccacacataaatgaccaccc	M75721
104698	cacacataaatgaccaccctaagat	M75721
104699	taaatgaccaccctaagatgtcatc	M75721
104700	atgaccaccctaagatgtcatcctt	M75721
104701	ctaagatgtcatccttccttctgaa	M75721
104702	agatgtcatccttccttctgaattg	M75721
104703	tggcctggctcgtgcctgatgctac	M75721
104704	cctggctcgtgcctgatgctacagc	M75721
104705	ggctcgtgcctgatgctacagcaaa	M75721
104706	tcgtgcctgatgctacagcaaaaaa	M75721
104707	tgcaggcaatgccactgctgtcttc	M75721
104708	caatgccactgctgtcttccttctg	M75721
104709	gttagcccagatccacttccccaga	M75721
104710	gaagctcagccaggctgtgcataag	M75721
104711	agaagctgcagcagttacagtctta	M75721
104712	agtcttacaaatggttcctatgtct	M75721
104713	ggttcctatgtctatgccccctatc	M75721
104714	agtggtagatcccacacataaatga	M75721
104715	gtggtgacctccagggatgagcaga	U08372
104716	gtgacctccagggatgagcagaact	U08372
104717	tcatttatatccttaattccttgag	U08372
104718	atatccttaattccttgagctgctg	U08372
104719	tccttaattccttgagctgctgagg	U08372
104720	ttaattccttgagctgctgaggttt	U08372
104721	ccttgagctgctgaggtttagaact	U08372
104722	cccatctccaggaactctcatgtag	U08372
104723	tccaggaactctcatgtaggatttt	U08372
104724	tattgaaacccagcgcgcagttctc	U08372

TABLE 1

SEQ ID NO	sequence	DBAxnID
19517	agcgccgacagatgctactagatga	W62842
19518	ggtggcctctgatttcacttatctg	W62842
19519	tgatttcacttatctgtacgcgcag	W62842
19520	tttcacttatctgtacgcgcagtgt	W62842
19521	cacttatctgtacgcgcagtgtgta	W62842
19522	tctgtacgcgcagtgtgtacaccag	W62842
19523	tgtacaccagcgccattctcaggca	W62842
19524	acaccagcgccattctcaggcacat	W62842
19525	tcctgtattgtatcaccacagaggt	W62843
19526	cctgtattgtatcaccacagaggtc	W62843
19527	acttagcgagactgtcatgcagtgt	W62843
19528	cttagcgagactgtcatgcagtgtt	W62843
19529	ttagcgagactgtcatgcagtgttg	W62843
19530	agcgagactgtcatgcagtgttggt	W62843
19531	agactgtcatgcagtgttggtgacg	W62843
19532	gactgtcatgcagtgttggtgacga	W62843
19533	actgtcatgcagtgttggtgacgat	W62843
19534	ctgtcatgcagtgttggtgacgatg	W62843
19535	gtcatgcagtgttggtgacgatgac	W62843
19536	tcatgcagtgttggtgacgatgact	W62843
19537	tgtattgtatcaccacagaggtcat	W62843
19538	gtattgtatcaccacagaggtcatc	W62843
19539	tattgtatcaccacagaggtcatca	W62843
19540	caagtcggtcgtggatcggttcgag	W62843
19541	tcgtggatcggttcgaggctgtaga	W62843
19542	cgtggatcggttcgaggctgtagaa	W62843
19543	attgatacttagcgagactgtcatg	W62843
19544	atacttagcgagactgtcatgcagt	W62843
19545	gagtcctcacaggtggaagaaatct	D26474
19546	tcacaaacagacaacgaagagtcat	D26474
19547	gcaccacttggacccaagactgata	D26474
19548	cttggacccaagactgatatcaggc	D26474
19549	actgatatcaggcttggcaagggag	D26474
19550	atcaggcttggcaagggagttcatt	D26474
19551	cctaacacagtatccttcagattcc	D26474
19552	tccttcagattccccaaaatattca	D26474
19553	ggtgactccatctaattcccaacca	D26474
19554	gttattttccatacagtttaagctg	D26474
19555	ttccatacagtttaagctggcttcc	D26474
19556	taagctggcttcccatgttgttttc	D26474
19557	cagcagtccaggtccacaaagccag	D26474
19558	tccaggtccacaaagccagagccac	D26474
19559	tccacaaagccagagccacagaacc	D26474
19560	gagccacagaacctgagcccagcta	D26474
19561	cagaacctgagcccagctaaggcag	D26474
19562	ctgagcccagctaaggcagcaccac	D26474
19563	ccagctaaggcagcaccacttggac	D26474
19564	aaggcagcaccacttggacccaaga	D26474
19565	tacctggtgcagatccgtgttctac	W62639
19566	gtgcagatccgtgttctacaacccc	W62639
19567	ctaaagtctggggtctcatgagcct	W62639
19568	tctggggtctcatgagccttgagat	W62639
19569	ggggtctcatgagccttgagatggc	W62639
19570	gtctcatgagccttgagatggcgtt	W62639
19571	tcatgagccttgagatggcgttgac	W62639
19572	ctcctcgccttccagtaaggaccag	W62639
19573	ctcgccttccagtaaggaccagact	W62639
19574	tggactgccttacccatgccagttc	W62639
19575	actgccttacccatgccagttctgt	W62639
19576	ttacccatgccagttctgtgacaag	W62639
19577	ccccttctgtttctcttgagtgact	W62639
19578	cttctgtttctcttgagtgacttcc	W62639
19579	tttctcttgagtgacttcccatgga	W62639
19580	ctcttgagtgacttcccatggattg	W62639
19581	ttgagtgacttcccatggattgcat	W62639
19582	agtgacttcccatggattgcatggt	W62639
19583	gacttcccatggattgcatggttga	W62639
19584	acagttctaaagtctggggtctcat	W62639

SEQ ID NO:	sequence	DBAxnID
62121	cctatctggtgcggcagagggtgaa	X64361
62122	agttcgccatcagcattaagtataa	X64361
62123	tcatgacgtcagaggggttgtaccg	X64361
62124	attgcttcaagtcgttggacaccac	X64361
62125	gcaagccaccagctggaagcaccaa	X64361
62126	caccagctggaagcaccaagtattt	X64361
62127	agtattttggcactgccaaagcccg	X64361
62128	ttggcactgccaaagcccgctacga	X64361
62129	ctgccaaagcccgctacgacttctg	X64361
62130	agatctacggccggatcggctggtt	X64361
62131	gagtgcatccctatgtccacggccc	X64361
62132	ctcctcaggacctgtctgtgcatct	X64361
62133	aggacctgtctgtgcatctctggta	X64361
62134	tgtctgtgcatctctggtatgcggg	X64361
62135	tctggtatgcgggccctatggaacg	X64361
62136	atgcgggccctatggaacgagcagg	X64361
62137	tcctcaccaaccgttctgatgggac	X64361
62138	ccaaccgttctgatgggacctatct	X64361
62139	tatgcctatctcctgggccaaggct	X59556
62140	gacccgtctgatgggttcagcacaa	X59556
62141	tgctggttgctagctactgtacctg	X59556
62142	atcttacggaatgtcctgtttgctg	X59556
62143	cggaatgtcctgtttgctggactga	X59556
62144	tttgctggactgaaatccaggagca	X59556
62145	aaatccaggagcaatcccacagcag	X59556
62146	ctgaacagtcatcctaatgactgac	X59556
62147	agtcatcctaatgactgacatcatg	X59556
62148	cctaatgactgacatcatggctggc	X59556
62149	cctgctgtacttcgctcatctgtat	X59556
62150	cgctcatctgtatataacttatttg	X59556
62151	gggttcagcacaagctctggctgct	X59556
62152	agcacaagctctggctgctcttaca	X59556
62153	agctctggctgctcttacagcagct	X59556
62154	agcagctctgtgccttaacactgcc	X59556
62155	tctgtgccttaacactgccagagcc	X59556
62156	cagcccctggacagcagtgcagcct	X59556
62157	agcagtgcagcctgccagtgctggt	X59556
62158	tgccagtgctggttgctagctactg	X59556
62159	gcagaaccacttcctgcagtaacat	Z29987
62160	cctgcagtaacatcacctgctggct	Z29987
62161	tgataatgaaacccacggagaaagc	Z29987
62162	tgaaacccacggagaaagcagaagt	Z29987
62163	gaatcctttgctgttggctatgac	Z29987
62164	ttttgctgttggctatgactgcagg	Z29987
62165	tgttggctatgactgcaggtttgtg	Z29987
62166	tcggcttcttcaaaagacaatataa	Z29987
62167	atgagaccacagaactcaacagcta	Z29987
62168	ccacagaactcaacagctaaaccat	Z29987
62169	acagctaaaccatcggcggacagca	Z29987
62170	gcatccctgccagggctcgctggtg	Z29987
62171	tgaaagaccttcacatgaaagcaga	Z29987
62172	accttcacatgaaagcagagtactt	Z29987
62173	tcatcaatgtgacaaccagagtttg	Z29987
62174	atgtgacaaccagagtttggaacag	Z29987
62175	cttcgactttccagactgtgcagct	Z29987
62176	tcgatacacataaccctcagctctt	Z29987
62177	ctgtcacgattcccctcatgataat	Z29987
62178	cgattcccctcatgataatgaaacc	Z29987
62179	gcaggaaccaggggtgcagtgaccc	
62180	caggaaccaggggtgcagtgaccct	
62181	gtctggagccatggcctggacgtct	
62182	tctggagccatggcctggacgtctg	
62183	ctggagccatggcctggacgtctgt	
62184	tggagccatggcctggacgtctgtc	
62185	ggagccatggcctggacgtctgtcc	
62186	gagccatggcctggacgtctgtcct	
62187	agccatggcctggacgtctgtcctg	
62188	gccatggcctggacgtctgtcctgc	

SEQ ID NO	sequence	DBAxnID
104725	aacccagcgcgcagttctcttctgt	U08372
104726	cgcagttctcttctgtcagcttgtt	U08372
104727	cagcgccacatgggccccttaaaca	U08372
104728	ttaaacacttggattggcctaactg	U08372
104729	gcccacttcacgacggatggccgct	U08372
104730	ttcacgacggatggccgctggaatg	U08372
104731	acggatggccgctggaatgacgacg	U08372
104732	gacgtctgcaggaggccctaccgct	U08372
104733	aggccctaccgctgggtctgtgaga	U08372
104734	ccctaccgctgggtctgtgagacaa	U08372
104735	acaagccaggctcacacactatgca	K03235
104736	ctatgcagctcttctgaaatcagga	K03235
104737	gaaccctgcctggttcttgcaatct	K03235
104738	tgcctggttcttgcaatctgacaat	K03235
104739	tgctcgcattcattctttatatggc	K03235
104740	cattcattctttatatggcatgatc	K03235
104741	catgatcagctgcctagacaatgac	K03235
104742	cagctgcctagacaatgactttaag	K03235
104743	tgatatttatctcaacgtcctgaag	K03235
104744	ttatctcaacgtcctgaagtgttac	K03235
104745	caacgtcctgaagtgttacatgtta	K03235
104746	tgtgctctgcttctgaaatatcatg	K03235
104747	atcaggagccatgatttcggatgcc	K03235
104748	aagccctctggacgatctagtgagt	K03235
104749	aaatgtccctgatataatcatctcc	K03235
104750	ccctgatataatcatctccaaagcc	K03235
104751	tataatcatctccaaagccacagac	K03235
104752	catctccaaagccacagacataaag	K03235
104753	taatgccctcatgagcaccatgctt	K03235
104754	cctcatgagcaccatgcttcagaat	K03235
104755	ggacacccgagacaccatgaagagc	D00613
104756	agctaaagcccaaaagagagtccag	D00613
104757	tctcctgcagtagcattactgaagt	D00613
104758	aagtatacagacacgcatgtgttgc	D00613
104759	tatacagacacgcatgtgttgcttg	D00613
104760	acgcatgtgttgcttgctccttaca	D00613
104761	catgtgttgcttgctccttacatga	D00613
104762	ttgcttgctccttacatgatctcct	D00613
104763	cttgctccttacatgatctcctagc	D00613
104764	ccttacatgatctcctagctggctg	D00613
104765	tacatgatctcctagctggctggcc	D00613
104766	atgatctcctagctggctggcccac	D00613
104767	agtccaggaacgcaacaagcctgcc	D00613
104768	ccaggaacgcaacaagcctgcctac	D00613
104769	ggaacgcaacaagcctgcctacgag	D00613
104770	acgcaacaagcctgcctacgagatc	D00613
104771	ctacaaccgctacttcaggcagcgc	D00613
104772	tttcgttttatatctcctgcagtag	D00613
104773	cgttttatatctcctgcagtagcat	D00613
104774	tttatatctcctgcagtagcattac	D00613
104775	ctgcacatcagcccggaccggtgcg	U19825
104776	cgctctcctagaccacgtgcttagc	U19825
104777	gtgttctgtttatccaccggtagcg	U19825
104778	tgtttatccaccggtagcgatgccc	U19825
104779	ataagagaccacggttgcctcagct	U19825
104780	ttccttggcttgcggaggattgggt	U19825
104781	accttgaatggaagcccaggctctg	U19825
104782	agcccaggctctgaacgtgggattg	U19825
104783	tccagtttggtcctctctaaactag	U19825
104784	ttggtcctctctaaactagtccagt	U19825
104785	ctctctaaactagtccagtggttca	U19825
104786	aaactagtccagtggttcagatgtc	U19825
104787	cctagaccacgtgcttagctgagcc	U19825
104788	aactagtccagtggttcagatgtcc	U19825
104789	gcttagctgagccaggctttcactt	U19825
104790	ttcacttttctcagggtctacatca	U19825
104791	ttcgcttgagtcctggccccactta	U19825
104792	tgagtcctggccccacttacctgca	U19825

TABLE 1

SEQ ID NO	sequence	DBAxnID
19585	gaatggtgcgaacggcctgggctct	W62846
19586	tggtgcgaacggcctgggctctcta	W62846
19587	acagcctgacttggctgtgattcat	W62846
19588	agcctgacttggctgtgattcatca	W62846
19589	ctgacttggctgtgattcatcacat	W62846
19590	tgacttggctgtgattcatcacatg	W62846
19591	ctgtgattcatcacatgagcccttc	W62846
19592	tgattcatcacatgagcccttcctg	W62846
19593	gattcatcacatgagcccttcctgg	W62846
19594	ttcatcacatgagcccttcctggat	W62846
19595	tcatcacatgagcccttcctggatt	W62846
19596	ggatttcctctgggcttctccgccg	W62846
19597	agaccaggtctgggcgcagacttgg	W62846
19598	ccaggtctgggcgcagacttggccc	W62846
19599	caggtctgggcgcagacttggccca	W62846
19600	gcccttagtctttggctacgtactg	W62846
19601	ccttagtctttggctacgtactgag	W62846
19602	tagtctttggctacgtactgaggat	W62846
19603	agtctttggctacgtactgaggatg	W62846
19604	tctttggctacgtactgaggatggg	W62846
19605	ccagcgacctgctgttgacagctcc	W62849
19606	acctgctgttgacagctcctacctg	W62849
19607	cttctccgactctacagctgctgct	W62849
19608	tgccagggactcctgttttagctac	W62849
19609	tgcccttcctggacagctgcgaagc	W62849
19610	ccttcctggacagctgcgaagccca	W62849
19611	tggacagctgcgaagcccactcatg	W62849
19612	acagctgcgaagcccactcatgccg	W62849
19613	gctgcgaagcccactcatgccgtga	W62849
19614	gcgaagcccactcatgccgtgaatg	W62849
19615	aagcccactcatgccgtgaatgatc	W62849
19616	cccactcatgccgtgaatgatcaga	W62849
19617	tgctgttgacagctcctacctgtca	W62849
19618	actcatgccgtgaatgatcagatct	W62849
19619	gcgtatgatccctagtcactaggtt	W62849
19620	tatgatccctagtcactaggttttg	W62849
19621	gatccctagtcactaggttttgaat	W62849
19622	tagtcactaggttttgaatgcactg	W62849
19623	gaatgcactggagccaatggtgact	W62849
19624	tgcactggagccaatggtgactgga	W62849
19625	cctcgcagactttatacggaccatc	W62849
19626	aatctacaataccatttcaaatcta	U13878
19627	caataccatttcaaatctaagcatc	U13878
19628	aacgccgtcagcaacgagaagatgg	U13878
19629	cctggtagcagtgtctcagtggtcc	U13878
19630	agcagtgtctcagtggtccaggtaa	U13878
19631	agtgtctcagtggtccaggtaagta	U13878
19632	gtctcagtggtccaggtaagtacca	U13878
19633	gtaagtaccaggactcggaagtcag	U13878
19634	agtaccaggactcggaagtcagcgg	U13878
19635	catccctccgaagagcctgtgaacg	U13878
19636	ccctccgaagagcctgtgaacgagg	U13878
19637	tccgaagagcctgtgaacgagggac	U13878
19638	taccatttcaaatctaagcatccca	U13878
19639	catttcaaatctaagcatcccacct	U13878
19640	cccacctgtcccagcaaaagaatgg	U13878
19641	acctgtcccagcaaaagaatggatg	U13878
19642	gaggctgacctgcttaataacgccg	U13878
19643	gctgacctgcttaataacgccgtca	U13878
19644	gacctgcttaataacgccgtcagca	U13878
19645	cttaataacgccgtcagcaacgaga	U13878
19646	atctaattattctccaggccccttg	L39017
19647	tccaggccccttggagaaagggctg	L39017
19648	gtgctttgtgtagctggtctgagaa	L39017
19649	ctttgtgtagctggtctgagaagtg	L39017
19650	atctccctgaataggcagacttact	L39017
19651	ttgtctgtaaccaaaatcaaacata	L39017
19652	tctgtaaccaaaatcaaacatagtt	L39017

SEQ ID NO:	sequence	DBAxnID
62189	ccatggcctggacgtctgtcctgct	
62190	catggcctggacgtctgtcctgctc	
62191	ggaaccaggggtgcagtgaccctct	
62192	gaaccaggggtgcagtgaccctctc	
62193	tcagggcccaggagcagtggctgta	
62194	tgcaggtctggagccatggcctgga	
62195	gcaggtctggagccatggcctggac	
62196	caggtctggagccatggcctggacg	
62197	aggtctggagccatggcctggacgt	
62198	ggtctggagccatggcctggacgtc	
62199	catgacaatgactactgcctgggct	X93037
62200	gacaatgactactgcctgggctctg	X93037
62201	cttggctcctccttagacctagaat	X93037
62202	ggctcctccttagacctagaattgc	X93037
62203	tcctccttagacctagaattgcatc	X93037
62204	tccttagacctagaattgcatcctt	X93037
62205	gacctagaattgcatccttggaaga	X93037
62206	ctagaattgcatccttggaagagga	X93037
62207	gaattgcatccttggaagaggaaga	X93037
62208	ttgcatccttggaagaggaagatct	X93037
62209	atctatactgtggtgacagcttcct	X93037
62210	actgtggtgacagcttcctaacgtg	X93037
62211	gactactgcctgggctctgtctaac	X93037
62212	cccacgcagttttggaacttgtgat	X93037
62213	tcctgtcttttaaccatgtggaaga	X93037
62214	tgtctttaaccatgtggaagatgg	X93037
62215	tgatggctagccccagaagattttt	X93037
62216	tttgaacctacagaccccatgcttg	X93037
62217	gaacctacagaccccatgcttggct	X93037
62218	atgcttggctcctccttagacctag	X93037
62219	gatgtccatgccccaaatgcctcag	X56842
62220	catgccccaaatgcctcagagatgt	X56842
62221	caatggtcaccagatccgttggcca	X56842
62222	tctctagtgtctgtctggcctggaa	X56842
62223	gtctggcctggaagtgaggtgctac	X56842
62224	gtgctacatacagcccatctgccac	X56842
62225	ctgccacaagagcttcctgattggt	X56842
62226	cttcctgattggtaccactgtgaac	X56842
62227	ccatacaggagtgtgcccggagagc	X56842
62228	ggctgcacacgcgtggtgactgact	X56842
62229	acacgcgtggtgactgactgtcttc	X56842
62230	tgtcttctgcctggaactttgcgtt	X56842
62231	ccaaatgcctcagagatgttgcctc	X56842
62232	ttgcctcactttgagttgtatgaac	X56842
62233	tatgaacttcggagacatggggaca	X56842
62234	acagtcaagccgcagagccagggtt	X56842
62235	aagccgcagagccagggttgtttca	X56842
62236	tgtttcaggacccatctgattcccc	X56842
62237	aggacccatctgattccccagagcc	X56842
62238	catctgattccccagagcctgctgt	X56842
62239	cttcatgtatctgaccttcttcctt	X69657
62240	gtatctgaccttcttccttgaagat	X69657
62241	cttccagtgcttctgctttgacact	X69657
62242	gtgcttctgctttgacacttgactg	X69657
62243	ggccatgcctcaggccgttgaccat	X69657
62244	gcctcaggccgttgaccatagctag	X69657
62245	aatgagcctccactcagagtcttgg	X69657
62246	cctccactcagagtcttggaaaagc	X69657
62247	ttgaagtgtctgtcctctctgaagg	X69657
62248	tgtctgtcctctctgaaggcacaag	X69657
62249	gcacaagggccactctgagtgttct	X69657
62250	gggccactctgagtgttctgtcctt	X69657
62251	tgacgacaggctggagcagatcaga	X69657
62252	aaaggattacaccagcggagccatg	X69657
62253	gctcaccggggagctcaagaagacg	X69657
62254	agacgtccttcagcccctgatcgca	X69657
62255	gatcgcagagcaccaggcccgacgc	X69657
62256	ccgacgcaaggcggtcactgaggag	X69657

SEQ ID NO	sequence	DBAxnID
104793	ccacttacctgcaccgctgttcttt	U19825
104794	gttctttgagcctcgctccacgtag	U19825
104795	tcgctccacgtagtgttctgtttat	U19825
104796	tcctttctgcagatgaatactgaat	M26897
104797	cctttctgcagatgaatactgaata	M26897
104798	gttccttgaaagcacatcatgttta	M26897
104799	ttccttgaaagcacatcatgtttaa	M26897
104800	tccttgaaagcacatcatgtttaat	M26897
104801	ccttgaaagcacatcatgtttaata	M26897
104802	cttgaaagcacatcatgtttaataa	M26897
104803	taataaagatcatccttcctggtaa	M26897
104804	ctttctgcagatgaatactgaatac	M26897
104805	tgaatactggactgttccttgaaag	M26897
104806	gaatactggactgttccttgaaagc	M26897
104807	aatactggactgttccttgaaagca	M26897
104808	atactggactgttccttgaaagcac	M26897
104809	tactggactgttccttgaaagcaca	M26897
104810	ctgttccttgaaagcacatcatgtt	M26897
104811	tgttccttgaaagcacatcatgttt	M26897
104812	tatccatacagactcccatgccaag	M16359
104813	tacagactcccatgccaaggttctg	M16359
104814	aatttctctttgccaacacatggaa	M16359
104815	tttctctttgccaacacatggaaat	M16359
104816	tctttgccaacacatggaaattctc	M16359
104817	tttgccaacacatggaaattctcca	M16359
104818	cacatggaaattctccattgatttc	M16359
104819	tggaaattctccattgatttctttc	M16359
104820	gaaattctccattgatttctttcct	M16359
104821	ttctttcctgtcctgttcaataaat	M16359
104822	ctttcctgtcctgttcaataaatga	M16359
104823	ttcctgtcctgttcaataaatgatt	M16359
104824	cagactcccatgccaaggttctgtg	M16359
104825	gactcccatgccaaggttctgtgat	M16359
104826	catgccaaggttctgtgatctgctc	M16359
104827	aaggttctgtgatctgctctccacc	M16359
104828	ggttctgtgatctgctctccacctg	M16359
104829	gtgatctgctctccacctgtctcac	M16359
104830	ctccacctgtctcacagagaagtgc	M16359
104831	taaatttctctttgccaacacatgg	M16359
104832	actacctcatgcaagagcttccaca	U21489
104833	tcatgcaagagcttccacaggaaag	U21489
104834	gctgtctgcagttgcatgaaaccaa	U21489
104835	tgcatgaaaccaaacgtctggactc	U21489
104836	ccggttctgcttccatggcgaaata	U21489
104837	aatgtgtgcaactccacggaggctg	U21489
104838	aagcttacgtggatgctcgggtgca	U21489
104839	catctgcctacatcctggaatccta	U21489
104840	cctacatcctggaatcctattacat	U21489
104841	aatcctattacatgcagctaatgcg	U21489
104842	attacatgcagctaatgcggattct	U21489
104843	ggattctaatctacttgagataaag	U21489
104844	ttccacaggaaaggctcttaattgc	U21489
104845	taattgctgagttggcgatttctgc	U21489
104846	tggcgatttctgcctgtgagttcat	U21489
104847	ttgcacacatacagacggtgcagca	U21489
104848	acatacagacggtgcagcataaact	U21489
104849	acatatgtgtcaccagagcttttgt	U21489
104850	gtgtcaccagagcttttgtggacag	U21489
104851	tggacagctgtctgcagttgcatga	U21489
104852	caacgagtccttcagccagcacagc	AA097267
104853	gccagctgctcagctacccacagat	AA097267
104854	gctctcagaggctttgacagatttc	AA097267
104855	ggctttgacagatttctctgtgaag	AA097267
104856	tttgacagatttctctgtgaagctc	AA097267
104857	ctctgtgaagctctaccacgccttc	AA097267
104858	tgtgaagctctaccacgccttctca	AA097267
104859	ccacgccttctcagctaccaagatg	AA097267
104860	cttctcagctaccaagatggctaag	AA097267

TABLE 1

SEQ ID NO	sequence	DBAxnID
19653	accaaaatcaaacatagttaatgtg	L39017
19654	gtccaggtgtatccaacttgggaag	L39017
19655	cacagaaatatcaccgttgtgaggt	L39017
19656	aatatcaccgttgtgaggttgaaca	L39017
19657	atcaccgttgtgaggttgaacaata	L39017
19658	ctcatatgacgccaaacagactccc	L39017
19659	cccagtgggccatcacatctcagga	L39017
19660	tcacatctcaggaggttaaaagcaa	L39017
19661	ttaaaagcaacaactccaggtctgt	L39017
19662	acaactccaggtctgtctgcctaag	L39017
19663	actccaggtctgtctgcctaagaag	L39017
19664	ggtctgtctgcctaagaagtgtgtg	L39017
19665	tttgtgctttgtgtagctggtctga	L39017
19666	ggtctacaacgtcacctacactgtc	W97775
19667	ctacaacgtcacctacactgtcaag	W97775
19668	caaggtcaatgtgccctgaatctca	W97775
19669	ggtcaatgtgccctgaatctcagaa	W97775
19670	tgtgccctgaatctcagaagtattg	W97775
19671	gccctgaatctcagaagtattgccc	W97775
19672	cctctgcacactcacagaatcagac	W97775
19673	ctgcacactcacagaatcagacact	W97775
19674	atcagacactaaaacacctgcctta	W97775
19675	cactaaaacacctgccttaggtgtg	W97775
19676	aacacctgccttaggtgtgatgtga	W97775
19677	acacctgccttaggtgtgatgtgag	W97775
19678	caacgtcacctacactgtcaaggag	W97775
19679	cgtcacctacactgtcaaggagaag	W97775
19680	cacctacactgtcaaggagaaggga	W97775
19681	ctacactgtcaaggagaagggagac	W97775
19682	gggagactacatcctcattgtcaag	W97775
19683	agactacatcctcattgtcaagtgg	W97775
19684	ctacatcctcattgtcaagtggggt	W97775
19685	gagccccttcaaggtcaatgtgccc	W97775
19686	ctctttctgtatctccttgcctata	L20276
19687	ctgtatctccttgcctatatctctg	L20276
19688	agggttcatactctgctatcaagac	L20276
19689	catactctgctatcaagacgaggat	L20276
19690	cagcaggccatcagagccgccagaa	L20276
19691	gccatcagagccgccagaaccagtt	L20276
19692	agagccgccagaaccagtttgcatt	L20276
19693	gccagaaccagtttgcattggcccc	L20276
19694	accagtttgcattggcccctgctct	L20276
19695	atggtcagttgcacccagcaagagg	L20276
19696	agttgcacccagcaagagggagtgc	L20276
19697	tcagttgtctctcaattaaagaaac	L20276
19698	gcctatatctctgtctgtctctatt	L20276
19699	gtatctgtctctctctgacaacaca	L20276
19700	gtctctctctgacaacacacacaca	L20276
19701	acacacggatcatctgccccaggct	L20276
19702	ggatcatctgccccaggctgctttc	L20276
19703	tgctttctgcttcacaggtctctag	L20276
19704	ctgcttcacaggtctctagccagtc	L20276
19705	ggggcaactatcttcctgattgccc	L20276
19706	cttcctgtctgtattcctggtcatc	W62976
19707	tgtattcctggtcatcgtgatgttg	W62976
19708	ctagtagacatgcccgatcagcatg	W62976
19709	caagagctcggatgccatgagcact	W62976
19710	ggatgccatgagcacttacgcatgc	W62976
19711	tgccatgagcacttacgcatgcgtt	W62976
19712	catgagcacttacgcatgcgttttt	W62976
19713	cacttacgcatgcgtttttacagag	W62976
19714	ttacgcatgcgtttttacagagcag	W62976
19715	cgtttttacagagcagctcgttact	W62976
19716	ttttacagagcagctcgttactctc	W62976
19717	tacagagcagctcgttactctcctt	W62976
19718	tgactcgggcagactgtctctgcag	W62976
19719	tctccttatgggagagtagatgcta	W62976
19720	cagactgtctctgcaggtcacggtg	W62976

SEQ ID NO:	sequence	DBAxnID
62257	gctgtccttccacttccagtgcttc	X69657
62258	cttccacttccagtgcttctgcttt	X69657
62259	ctgtggcactttgggtggaatgata	X53824
62260	tggcactttgggtggaatgataaag	X53824
62261	tgccagtgtcctttcagtttaaggg	X53824
62262	tgtagagctcaacttttcagttact	X53824
62263	gctcaacttttcagttactgtgcaa	X53824
62264	cttttcagttactgtgcaagattgt	X53824
62265	ttcagttactgtgcaagattgtttt	X53824
62266	ctgttttccttgcacactcaaaatc	X53824
62267	tccttgcacactcaaaatctgtgag	X53824
62268	cacactcaaaatctgtgagcttggt	X53824
62269	actcaaaatctgtgagcttggtatc	X53824
62270	cattcctattggaagccatacttat	X53824
62271	tgtgaacacaagccaacagataagg	X53824
62272	gaacacaagccaacagataagggta	X53824
62273	cacaagccaacagataagggtagga	X53824
62274	aaccacactgaagatttgcaaaggg	X53824
62275	ttcctggtttctctatggggatgca	X53824
62276	gtttctctatggggatgcagagcta	X53824
62277	ctcagatgccagtgtcctttcagtt	X53824
62278	agatgccagtgtcctttcagtttaa	X53824
62279	gctgccacaggacggcgtctattac	U06950
62280	cggcgtctattacctctactgccac	U06950
62281	ccccgacatggtggactacaggaga	U06950
62282	gtgacagccatctgtattcattcct	U06950
62283	gccatctgtattcattcctggagga	U06950
62284	tgtattcattcctggaggatcgact	U06950
62285	aggatcgactgacggtgcgaatgtg	U06950
62286	gtgaatcgtgatgtccgggaccccg	U06950
62287	aactatgccggcccttgccagtgtc	U06950
62288	cagtgtcttcacggaaatgcagacg	U06950
62289	tttgattctgggacacgtgcaggtg	U06950
62290	gtggctgacccagctttgaactgtg	U06950
62291	ctattacctctactgccacgtcggg	U06950
62292	tggctgacccagctttgaactgtgg	U06950
62293	cctctactgccacgtcgggtacagg	U06950
62294	ggagacagtcacacctgttgtggac	U06950
62295	gacagtcacacctgttgtggacccc	U06950
62296	cacacctgttgtggaccccatcggg	U06950
62297	cgttaacatcagtcaccccgacatg	U06950
62298	taacatcagtcaccccgacatggtg	U06950
62299	catcagtcaccccgacatggtggac	U06950
62300	ataactacatttcagaagtttgata	X07967
62301	cagagccagaccctggaagcaatta	X07967
62302	gtttcccatcttcagactaaggaag	X07967
62303	ttcccatcttcagactaaggaagca	X07967
62304	gcatgcatatttttgcacttgctggt	X07967
62305	atgcatatttttgcacttgctggtac	X07967
62306	atattttgcacttgctggtacattt	X07967
62307	attttgcacttgctggtacatttgt	X07967
62308	tgcacttgctggtacatttgtaacc	X07967
62309	cacttgctggtacatttgtaaccaa	X07967
62310	gtctcctatgaaacagagtttgaaa	X07967
62311	atccttgttattctgatgattctaa	X07967
62312	gccagaccctggaagcaattaaaga	X07967
62313	actacatggagggtctgatgaactt	X07967
62314	agcatactctgaagtactcttctag	X07967
62315	catactctgaagtactcttctagtt	X07967
62316	ctgaagtactcttctagtttcccat	X07967
62317	tactcttctagtttcccatcttcag	X07967
62318	cttctagtttcccatcttcagacta	X07967
62319	tctagtttcccatcttcagactaag	X07967
62320	tgagaatatgccgcctcacgtagaa	X72697
62321	gagaatatgccgcctcacgtagaag	X72697
62322	atggcagcgttttgcacgttctgta	X72697
62323	gcagcgttttgcacgttctgtagag	X72697
62324	cagcgttttgcacgttctgtagaga	X72697

SEQ ID NO	sequence	DBAxnID
104861	ctcagctaccaagatggctaagacc	AA097267
104862	caacatggccttttccccattcagc	AA097267
104863	catggccttttccccattcagcatt	AA097267
104864	tcagctacccacagattctccagga	AA097267
104865	cttttccccattcagcattgccagc	AA097267
104866	gctacccacagattctccaggacag	AA097267
104867	ggctactactgaacccttctgcccg	AA097267
104868	tactactgaacccttctgcccggag	AA097267
104869	gtgctctgattcagacagagactcc	AA097267
104870	ttcagacagagactcctcagaggca	AA097267
104871	cagagactcctcagaggcaaagctc	AA097267
104872	aaagctctcagaggctttgacagat	AA097267
104873	ccaggcagccaagctaaccagtcag	AA087919
104874	aggcagccaagctaaccagtcagtt	AA087919
104875	cacgccacgctgtgttgatccaggc	AA087919
104876	cgccacgctgtgttgatccaggcat	AA087919
104877	ccacgctgtgttgatccaggcatcc	AA087919
104878	tgttgatccaggcatcctgccgggc	AA087919
104879	ttgatccaggcatcctgccgggccc	AA087919
104880	cccaccgggtagagatggaggcgct	AA087919
104881	gctgacctcggctgccatggctgcc	AA087919
104882	ccatggctgccctgacggtgtatga	AA087919
104883	atggctgccctgacggtgtatgaca	AA087919
104884	cagtcagcagggacattgtggtgac	AA087919
104885	gccaccatgtgccctgagccacgtg	AA087919
104886	caccatgtgccctgagccacgtgca	AA087919
104887	ccatgtgccctgagccacgtgcagg	AA087919
104888	atgtgccctgagccacgtgcaggta	AA087919
104889	tgagccacgtgcaggtacacctgga	AA087919
104890	agccacgtgcaggtacacctggagt	AA087919
104891	acgtgcaggtacacctggagttaga	AA087919
104892	gcaggtacacctggagttagacagc	AA087919
104893	gcgctcccgttgctagtaggagctg	X69063
104894	ctcccgttgctagtaggagctgttt	X69063
104895	tatgtcttggctctctcacatgctc	X69063
104896	gtcttggctctctcacatgctctgt	X69063
104897	tcacatgctctgttactgagagaga	X69063
104898	catgctctgttactgagagagacca	X69063
104899	ccaccctactctgatgtatagacca	X69063
104900	ccctactctgatgtatagaccattc	X69063
104901	gtatagaccattctccctacaccag	X69063
104902	ctccctacaccagctaaacaaatgt	X69063
104903	cctacaccagctaaacaaatgtcaa	X69063
104904	acaccagctaaacaaatgtcaaatt	X69063
104905	ggtctccacttgatgcctagagaat	X69063
104906	ctccacttgatgcctagagaatgct	X69063
104907	cacttgatgcctagagaatgctgca	X69063
104908	gaatgctgcagtctgcaccttagac	X69063
104909	tgcagtctgcaccttagacgctttt	X69063
104910	agtctgcaccttagacgcttttag	X69063
104911	ctgcaccttagacgcttttagaag	X69063
104912	aactatgtcttggctctctcacatg	X69063
104913	gtcctccaaactggcagcattcgat	J04170
104914	caaactggcagcattcgatgaacct	J04170
104915	tacatccttaacctaaggcctgcca	J04170
104916	taagactgctattcctccagcactc	J04170
104917	atgacctgctgcttgcttgaaagct	J04170
104918	tgctgcttgcttgaaagctgctcca	J04170
104919	ttgcttgaaagctgctccagaaact	J04170
104920	gaaagctgctccagaaactggacta	J04170
104921	tgctccagaaactggactactcttg	J04170
104922	gaagcctccagaaaagacttgacct	J04170
104923	ccggagccagccaggcagttttatt	J04170
104924	ccagccaggcagttttattgaaata	J04170
104925	tgaaccttctaagtattactatgaa	J04170
104926	ctatgaagtttctctgcccagcggc	J04170
104927	agtttctctgcccagcggcttagag	J04170
104928	ctctcaaagccgatattgtgacaag	J04170

TABLE 1

SEQ ID NO	sequence	DBAxnID
19721	actgtctctgcaggtcacggtgcat	W62976
19722	gcaggtcacggtgcatggctgcctc	W62976
19723	ggtgcatggctgcctcttaagttac	W62976
19724	gcatggctgcctcttaagttactgg	W62976
19725	ctggacctctgccaagtaggttgct	W62976
19726	taaagacctgtactagtagacatgc	W62976
19727	ctacttctgtcttaaaggacacacg	W62983
19728	ctgtcttaaaggacacacgaggacg	W62983
19729	agagccttctggtactctgtgtccc	W62983
19730	catttgggaaccagtccttactatg	W62983
19731	ggaaccagtccttactatgtgagca	W62983
19732	agtccttactatgtgagcagtgtgg	W62983
19733	aagcctacttccagacacacctgaa	W62983
19734	acttccagacacacctgaagatgca	W62983
19735	agacacacctgaagatgcacgctgg	W62983
19736	acctgaagatgcacgctggggtgaa	W62983
19737	agccacacgcacgtgcacagtgctg	W62983
19738	acgcacgtgcacagtgctgtagggc	W62983
19739	aggacacacgaggacgcacaagtgt	W62983
19740	gtgcacagtgctgtagggccttcag	W62983
19741	acacacgaggacgcacaagtgtaaa	W62983
19742	gagagcctttggtcgtcactcatct	W62983
19743	tcgtcactcatcttcccgagatgac	W62983
19744	atcttcccgagatgaccacacatgt	W62983
19745	ttcccgagatgaccacacatgtgtc	W62983
19746	ccgagatgaccacacatgtgtcgtg	W62983
19747	cacatgtgtcgtgagtggagcagag	W62983
19748	aacagacccagcaaatggcaagttt	U11073
19749	tttctgggcacagttccagaatgta	U11073
19750	ttctctgcctgtcccatattatacc	U11073
19751	gcctgtcccatattataccaggtca	U11073
19752	cccatattataccaggtcacctaag	U11073
19753	caggtcacctaagaccttcctggat	U11073
19754	acctaagaccttcctggattgatgc	U11073
19755	gaccttcctggattgatgctgacct	U11073
19756	ttgatgctgacctatgaggtagatt	U11073
19757	gaacttaacatttctgtcagattcc	U11073
19758	aacatttctgtcagattccaggcgt	U11073
19759	tccttggaaaaccctgatttcatgt	U11073
19760	gcccaggtccacagaactcattctt	U11073
19761	gtccacagaactcattcttaacacg	U11073
19762	agaactcattcttaacacgagtaca	U11073
19763	cattcttaacacgagtacatctctt	U11073
19764	gagtacatctcttacattagaggaa	U11073
19765	atctcttacattagaggaatataat	U11073
19766	tacctgaagctgtgttacctaaagt	U11073
19767	atgtcattctctgcctgtcccatat	U11073
19768	gccgtgagctccgaaggatgagcga	L37296
19769	gcgcaggcactgcaacacagatgcg	L37296
19770	agaggatcgctgtgtccctttaaca	L37296
19771	ggatcgctgtgtcccttaacaggg	L37296
19772	tcgctgtgtcccttaacagggaga	L37296
19773	tgtccctttaacagggagaagagct	L37296
19774	aagagctgacgtacagcttgagtcc	L37296
19775	agctgacgtacagcttgagtccctt	L37296
19776	tgacgtacagcttgagtcccttccg	L37296
19777	cgtacagcttgagtcccttccggtg	L37296
19778	ctctcctgttctggactgccctcgg	L37296
19779	ctgtcctgtcataactggggacccg	L37296
19780	caggcactgcaacacagatgcgaca	L37296
19781	gcactgcaacacagatgcgacaaag	L37296
19782	ctgcaacacagatgcgacaaagcgc	L37296
19783	agatgcgacaaagcgccggctggac	L37296
19784	cgcgcattatccagtcctggtggga	L37296
19785	gcattatccagtcctggtgggatcg	L37296
19786	ttatccagtcctggtgggatcgaaa	L37296
19787	tccagtcctggtgggatcgaaactt	L37296
19788	tgcgcgctcctgcagcacatctcgg	W62960
62325	gcgttttgcacgttctgtagagaca	X72697
62326	cgttttgcacgttctgtagagacac	X72697
62327	ttttgcacgttctgtagagacacca	X72697
62328	tttgcacgttctgtagagacaccaa	X72697
62329	cagagtccgaccatggaagcaattg	X72697
62330	gagtccgaccatggaagcaattgaa	X72697
62331	agtccgaccatggaagcaattgaag	X72697
62332	gaatatgccgcctcacgtagaagca	X72697
62333	aatatgccgcctcacgtagaagcag	X72697
62334	tatgccgcctcacgtagaagcagat	X72697
62335	atgccgcctcacgtagaagcagatg	X72697
62336	ccgcctcacgtagaagcagatgaag	X72697
62337	gcctcacgtagaagcagatgaagat	X72697
62338	tttctcagaggaatggcagcgtttt	X72697
62339	gaatggcagcgttttgcacgttctg	X72697
62340	gtttgattacaccatctgtgaagaa	X74351
62341	ttacaccatctgtgaagaatgcggg	X74351
62342	cgatatgaagctctacctaaagcta	X74351
62343	tatgaagctctacctaaagctacag	X74351
62344	aagagagacaaccactcaccaacat	X74351
62345	agagacaaccactcaccaacatgaa	X74351
62346	aaccactcaccaacatgaatatgga	X74351
62347	gtaccgcaagacttgtaccttgtgt	X74351
62348	gacttgtaccttgtgtggccacgaa	X74351
62349	taccttgtgtggccacgaactgaca	X74351
62350	gtgtggccacgaactgacatatgaa	X74351
62351	tggccacgaactgacatatgaaaaa	X74351
62352	catggactcgtaccttatgaaccac	X74351
62353	ccttatgaaccactttgatctgcca	X74351
62354	tatgaaccactttgatctgccaacg	X74351
62355	ccactttgatctgccaacgtgtgac	X74351
62356	tgatctgccaacgtgtgacagctgc	X74351
62357	aacgtgtgacagctgcagagatgct	X74351
62358	caagcttataaccaagacagaagcg	X74351
62359	gtaccttctgaaggactgtgatcta	X74351
62360	tctgtgggcagactagctgtagtgt	X80508
62361	tttctcttcagtaaagacttatctc	X80508
62362	caaaccctccatgctgactggtggga	X80508
62363	agatttaagcaccctgactctcact	X80508
62364	aagcaccctgactctcactaaattt	X80508
62365	cctgactctcactaaatttgaatca	X80508
62366	tgaatcacggcctgaacgtagtctt	X80508
62367	tgaacgtagtctttcttgttgtgtc	X80508
62368	tagtctttcttgttgtgtccagcag	X80508
62369	ttgtgtccagcagtgtttaatgctt	X80508
62370	gtgtttaatgcttcctggctgtagt	X80508
62371	aatgcttcctggctgtagtaggtag	X80508
62372	agaagttcctaagtttgcagctgct	X80508
62373	tggtgcgccttgttatacctcaatg	X80508
62374	gccttgttatacctcaatgtccagc	X80508
62375	ttatacctcaatgtccagcagcccc	X80508
62376	ctcaatgtccagcagcccctggtgc	X80508
62377	cctgacagtgctctctgaccttatc	X80508
62378	agtgctctctgaccttatcaaaccc	X80508
62379	ccttatcaaaccctccatgctgact	X80508
62380	ttgcctcccatagtagtatttcctc	X05260
62381	cctcccatagtagtatttcctcagg	X05260
62382	gacactcctccggctgaggagagat	X05260
62383	taccaagttctagccaatccttccg	X05260
62384	caagttctagccaatccttccgtgt	X05260
62385	gtctatactatggtgccaaagattc	X05260
62386	ttttcctgtgttggctacataaggg	X05260
62387	gtctttgataatcccagtatctttg	X05260
62388	tttgataatcccagtatctttgcca	X05260
62389	gataatcccagtatctttgccaata	X05260
62390	cccagtatctttgccaataaaatgt	X05260
62391	ccagtatctttgccaataaaatgtg	X05260
62392	gcccaggtgccaatcatgaaggatt	X05260
104929	tcctgatgggatccatctgaactga	J04170
104930	tgggatccatctgaactgaaccgga	J04170
104931	ccatctgaactgaaccggatacttg	J04170
104932	gaactgaaccggatacttgaacaag	J04170
104933	acgactggccatgaagctgctggtc	W09323
104934	cgactggccatgaagctgctggtcg	W09323
104935	gctccgctttgccaggctacagcta	W09323
104936	ctccgctttgccaggctacagctag	W09323
104937	cgctttgccaggctacagctagagg	W09323
104938	gctttgccaggctacagctagaggt	W09323
104939	ctttgccaggctacagctagaggtg	W09323
104940	tttgccaggctacagctagaggtga	W09323
104941	ttgccaggctacagctagaggtgac	W09323
104942	tgccaggctacagctagaggtgaca	W09323
104943	gccaggctacagctagaggtgacaa	W09323
104944	ccaggctacagctagaggtgacaag	W09323
104945	actggccatgaagctgctggtcgcc	W09323
104946	ctgctggtcgccgcaagcagccagg	W09323
104947	caccaagctccgctttgccaggcta	W09323
104948	accaagctccgctttgccaggctac	W09323
104949	ccaagctccgctttgccaggctaca	W09323
104950	caagctccgctttgccaggctacag	W09323
104951	aagctccgctttgccaggctacagc	W09323
104952	agctccgctttgccaggctacagct	W09323
104953	tggaacaccacacagctctgacagt	L13129
104954	accacacagctctgacagtgacgtc	L13129
104955	gctcctgaggcagcaggagcttaac	L13129
104956	acggcccaggcccatgagtaacctg	L13129
104957	caggcccatgagtaacctgattact	L13129
104958	taacctgattacttctgtgtctcta	L13129
104959	gtctctacccaattcccatggataa	L13129
104960	agcaccattctacatttaattgtca	L13129
104961	agattttatgtgcacgagtgtttac	L13129
104962	aacatgtacatgcacccagccactt	L13129
104963	tgcatgcctatttttctcacagaga	L13129
104964	cctatttttctcacagagactggga	L13129
104965	cagctctgacagtgacgtcctgtgc	L13129
104966	tgacagtgacgtcctgtgcaaggct	L13129
104967	cctgtgcaaggctggccttctaagc	L13129
104968	tggccttctaagccactgagacccc	L13129
104969	tctaagccactgagaccccagatgt	L13129
104970	ccactgagaccccagatgttacatt	L13129
104971	agaccccagatgttacattatcatg	L13129
104972	cagaatgctcctgaggcagcaggag	L13129
104973	tgtgcgccttctctcagctggtctg	W13502
104974	tgcgccttctctcagctggtctgcc	W13502
104975	ggcgccatttccactccgacaagat	W13502
104976	ccatttccactccgacaagatgaaa	W13502
104977	catttccactccgacaagatgaaag	W13502
104978	atttccactccgacaagatgaaaga	W13502
104979	tttccactccgacaagatgaaagaa	W13502
104980	ttccactccgacaagatgaaagaaa	W13502
104981	tccactccgacaagatgaaagaaac	W13502
104982	ccactccgacaagatgaaagaaaca	W13502
104983	gccttctctcagctggtctgcccga	W13502
104984	ccttctctcagctggtctgcccgag	W13502
104985	cttctctcagctggtctgcccgaga	W13502
104986	ttctctcagctggtctgcccgagac	W13502
104987	tctctcagctggtctgcccgagacc	W13502
104988	gagacccctgagcgtgaaccttag	W13502
104989	gcggcgccatttccactccgacaag	W13502
104990	cggcgccatttccactccgacaaga	W13502
104991	aaggcttggactggctctgtcctct	J04634
104992	gtggcgtcttctcccttgatgatgt	J04634
104993	aactctgacagaggagcctggtgtc	J04634
104994	gcctggtgtccactcaatgatgctt	J04634
104995	gatgcttcactgaacctctgctcca	J04634
104996	gcttcactgaacctctgctccatga	J04634

TABLE 1

SEQ ID NO	sequence	DBAxnID
19789	gcgctcctgcagcacatctcggaga	W62960
19790	ggccaagaccgctggagatcaccct	W62960
19791	gaccgctggagatcaccctggacaa	W62960
19792	tggagatcaccctggacaagccatc	W62960
19793	agatcaccctggacaagccatcgtc	W62960
19794	tggacaagccatcgtccagacgctg	W62960
19795	acaagccatcgtccagacgctgcgg	W62960
19796	ccagacgctgcggcagaaggctgac	W62960
19797	ggacaacaaccgccaagctgtcaag	W62960
19798	caaccgccaagctgtcaaggacctg	W62960
19799	ccgccaagctgtcaaggacctggtt	W62960
19800	ctcctgcagcacatctcggagaaga	W62960
19801	aagcgccaggcactgcgagaccaac	W62960
19802	caggcactgcgagaccaactctaca	W62960
19803	gcactgcgagaccaactctacaatg	W62960
19804	ctgcgagaccaactctacaatgggc	W62960
19805	cgagaccaactctacaatgggctac	W62960
19806	catgctggccaagaccgctggagat	W62960
19807	gctggccaagaccgctggagatcac	W62960
19808	cggcctgggcagactgcttctgtat	W62966
19809	tgcttctgtatgaatgcaggggtcg	W62966
19810	tccaagttccggtgtctaggagaga	W62966
19811	agttccggtgtctaggagagagtgt	W62966
19812	agcttgaagacactgcgtggatctt	W62966
19813	cttgaagacactgcgtggatcttct	W62966
19814	aagacactgcgtggatcttctctct	W62966
19815	ggatcttctctctgtaggagatcca	W62966
19816	taggagatccagctctagaaggatc	W62966
19817	agctctagaaggatccagggcatcc	W62966
19818	atccagggcatccgtggcttggcgt	W62966
19819	ccagggcatccgtggcttggcgttc	W62966
19820	tgaatgcaggggtcgcatgtgatca	W62966
19821	agggcatccgtggcttggcgttcca	W62966
19822	aatgcaggggtcgcatgtgatcaga	W62966
19823	gtgatcagaggctgcccaggagtca	W62966
19824	agaggctgcccaggagtcaatccaa	W62966
19825	aggctgcccaggagtcaatccaagt	W62966
19826	tgcccaggagtcaatccaagttccg	W62966
19827	ggagtcaatccaagttccggtgtct	W62966
19828	agtcaatccaagttccggtgtctag	W62966
19829	caagtatatacctactggaggaagt	Z38118
19830	gtatatacctactggaggaagtaat	Z38118
19831	taatccaccagattctcatctatta	Z38118
19832	accagattctcatctattagttaaa	Z38118
19833	caaacagactcctttatcgctatca	Z38118
19834	gactcctttatcgctatcaactcct	Z38118
19835	tcctttatcgctatcaactcctgca	Z38118
19836	tttatcgctatcaactcctgcatct	Z38118
19837	gctatcaactcctgcatcttttatg	Z38118
19838	atcaactcctgcatcttttatgaag	Z38118
19839	aactcctgcatcttttatgaagttt	Z38118
19840	tattatttccaagagagccaaactt	Z38118
19841	aacagcctttgaatttgatgttaat	Z38118
19842	ttcagaaactgctgatctcttgagc	Z38118
19843	aactgctgatctcttgagcctggtt	Z38118
19844	tgatctcttgagcctggtttcagag	Z38118
19845	tctcttgagcctggtttcagaggaa	Z38118
19846	cttgagcctggtttcagaggaagat	Z38118
19847	tgataataatccaccagattctcat	Z38118
19848	taataatccaccagattctcatcta	Z38118
19849	cgacactggcttcaaggcttcagca	W62958
19850	cactggcttcaaggcttcagcatta	W62958
19851	gcctagctcacctagatcagagttc	W62958
19852	tagctcacctagatcagagttctaa	W62958
19853	ctcacctagatcagagttctaatct	W62958
19854	ccaatcgtgcctttgtgcatatggt	W62958
19855	atcgtgcctttgtgcatatggtatg	W62958
19856	tgtgcattctctgaagcacgtgagg	W62958

SEQ ID NO:	sequence	DBAxnID
62393	attacctacaagaaggatccagctc	X05260
62394	aaggatccagctctctatgcttatc	X05260
62395	gatccagctctctatgcttatcagc	X05260
62396	ccagctctctatgcttatcagctcc	X05260
62397	gctctctatgcttatcagctcctgg	X05260
62398	cacatgattccagacactcctccgg	X05260
62399	atgattccagacactcctccggctg	X05260
62400	gtagctgcactacaacagattctta	Y00094
62401	gcactacaacagattcttaccgttt	Y00094
62402	agcacaaccagtgtctgtcagtttc	Y00094
62403	accagtgtctgtcagtttccacgca	Y00094
62404	gtctgtcagtttccacgcataaagt	Y00094
62405	cagtttccacgcataaagtttagtg	Y00094
62406	ttgctagttcttcctggtagagtta	Y00094
62407	gttcttcctggtagagttataaatg	Y00094
62408	attacactatctgattaatagtttc	Y00094
62409	tagtttcttcatactctgcatataa	Y00094
62410	tttgttgcacactatgtaacaaaac	Y00094
62411	gttgcacactatgtaacaaaactga	Y00094
62412	accgtttccacaaggtcagagattg	Y00094
62413	gctaacttcattttcagaactgttt	Y00094
62414	gtaatccttgttgctttcctgatac	Y00094
62415	gctttcctgataccagatcgtttcc	Y00094
62416	ctgataccagatcgtttcccgtggt	Y00094
62417	aagttcagccatttgtatcacaca	Y00094
62418	agccattttgtatcacacagcacaa	Y00094
62419	tttgtatcacacagcacaaccagtg	Y00094
62420	ggcttcagccagcgctcgcagctcg	X55126
62421	cgctcgcagctcgtggtgcaccagc	X55126
62422	cagcgagcgcacttgggagacaagc	X55126
62423	ggagacaagccttacaggtgcccgg	X55126
62424	agctggaactccgttctcatcatcc	X55126
62425	aaaggcttcagcaacagctccaact	X55126
62426	ggcttcagcaacagctccaacttca	X55126
62427	atcacacaccagaggacgcacctga	X55126
62428	caccagaggacgcacctgaaagaga	X55126
62429	aagctttactgaagtggcagaaaag	X55126
62430	ctgagctgactctgcagggagaact	X55126
62431	agctgactctgcagggagaactccc	X55126
62432	ccctacaagtgcctcatgtgtggca	X55126
62433	tacaagtgcctcatgtgtggcaaga	X55126
62434	aagagcttcagccggggctccattc	X55126
62435	agcttcagccggggctccattctgg	X55126
62436	agccggggctccattctggtgatgc	X55126
62437	ggctccattctggtgatgcaccagc	X55126
62438	attctggtgatgcaccagcgagcgc	X55126
62439	caccagcgagcgcacttgggagaca	X55126
62440	tagtatgttctcattgtggacagag	X89264
62441	tatgttctcattgtggacagagtgt	X89264
62442	attaatggtggcttccactgaacac	X89264
62443	ggtggcttccactgaacacaagagt	X89264
62444	ttccactgaacacaagagtgcagca	X89264
62445	tgagtctatttcacagtgttatttg	X89264
62446	gtctatttcacagtgttatttgaaa	X89264
62447	tatttcacagtgttatttgaaaaag	X89264
62448	taagatttctatgctcctttatgaa	X89264
62449	ttctatgctcctttatgaacaatga	X89264
62450	ttcacaaagaatttcctatagagca	X89264
62451	aatttcctatagagcacagattttt	X89264
62452	gttctcattgtggacagagtgtgta	X89264
62453	ctcattgtggacagagtgtgtatgt	X89264
62454	atgtgtgtccctgtactctgtgtac	X89264
62455	gtccctgtactctgtgtacatatat	X89264
62456	cctgtactctgtgtacatatatatg	X89264
62457	gtgtttatccccatatatttgtata	X89264
62458	tttatccccatatatttgtatatga	X89264
62459	atccccatatatttgtatatgaata	X89264
62460	ctacttcaagtgcccgcaacagtca	Z31370

SEQ ID NO	sequence	DBAxnID
104997	ctctgctccatgatggaggcttagc	J04634
104998	tgctccatgatggaggcttagcagt	J04634
104999	aatacatccatcatctgtcttttta	J04634
105000	aaatgtaattgtgccctcgtgtctg	J04634
105001	tgacgtctggtcctctcgaaaggta	J04634
105002	taattgttcattgtggaaggcaatg	J04634
105003	ctcctcaggcagcaaatgggtactc	J04634
105004	caaatgggtactctccggtgctgcc	J04634
105005	atgggtactctccggtgctgccatc	J04634
105006	catccccaagacatagatcctggga	J04634
105007	gccacaaaagcagcagtcagtgtga	J04634
105008	aggccttctatctggaactctgaca	J04634
105009	ccttctatctggaactctgacagag	J04634
105010	tctatctggaactctgacagaggag	J04634
105011	atctttcaccttcgctgagcttctg	AA003383
105012	tttcaccttcgctgagcttctgcct	AA003383
105013	gtcatggcctctatctgggttggac	AA003383
105014	atggcctctatctgggttggacctc	AA003383
105015	tctatctgggttggacctcgaggaa	AA003383
105016	gattatccaggctttagcacgtcgg	AA003383
105017	tatccaggctttagcacgtcggtgg	AA003383
105018	ccaggctttagcacgtcggtggatg	AA003383
105019	tttagcacgtcggtggatgccgaag	AA003383
105020	agcacgtcggtggatgccgaagcta	AA003383
105021	gatgccgaagctatccggaaagcga	AA003383
105022	gaagctatccggaaagcgatcagag	AA003383
105023	caccttcgctgagcttctgcctggg	AA003383
105024	cgcggccccaaggattgctgtgatc	AA003383
105025	ggccccaaggattgctgtgatctcg	AA003383
105026	gattgctgtgatctcggcttgagag	AA003383
105027	tgctgtgatctcggcttgagagaaa	AA003383
105028	tgtgatctcggcttgagagaaaggt	AA003383
105029	tggactgtcatggcctctatctggg	AA003383
105030	actgtcatggcctctatctgggttg	AA003383
105031	ttgtctgctcttctagaggactgat	W09362
105032	gactgattctatttctagcaccaac	W09362
105033	ctaatgccctcttgacttcttcagg	W09362
105034	tcttgacttcttcaggcaccaagct	W09362
105035	tgacttcttcaggcaccaagcttgc	W09362
105036	caggcaccaagcttgcatgtggtac	W09362
105037	gcaccaagcttgcatgtggtacaca	W09362
105038	ccaagcttgcatgtggtacacataa	W09362
105039	tttcgttgagggtctgcgtgtcttc	W09362
105040	tgaactccggcatgtcctcgccact	W09362
105041	cctcgccactcttggagagaagatg	W09362
105042	tcgccactcttggagagaagatgaa	W09362
105043	tgattctatttctagcaccaacata	W09362
105044	ttctatttctagcaccaacatagtg	W09362
105045	tatttctagcaccaacatagtggtt	W09362
105046	ttctagcaccaacatagtggttcac	W09362
105047	tctataattctagttcctgggaatc	W09362
105048	ctagttcctgggaatctaatgccct	W09362
105049	gggaatctaatgccctcttgacttc	W09362
105050	aatctaatgccctcttgacttcttc	W09362
105051	attagctgaacagaccgtcttcctt	L12589
105052	cctttagttcttctctgtccatgtg	L12589
105053	gatctttcggacaacttgacacaag	L12589
105054	ctttcggacaacttgacacaagata	L12589
105055	gaggatttctttccatcaggaagct	L12589
105056	ttctttccatcaggaagctacgggc	L12589
105057	caagtttgctgggcctttgattgct	L12589
105058	tgctgggcctttgattgcttgatga	L12589
105059	agtcttactgcaacttgatatgtca	L12589
105060	cttactgcaacttgatatgtcatgt	L12589
105061	gcctgccctttttctgaagagaagtg	L12589
105062	tgccctttttctgaagagaagtggtg	L12589
105063	cttctctgtccatgtgggatacatg	L12589
105064	ctctgtccatgtgggatacatggta	L12589

TABLE 1

SEQ ID NO	sequence	DBAxnID
19857	gcattctctgaagcacgtgaggaca	W62958
19858	gaggacattgctgctccaaagtagg	W62958
19859	gacattgctgctccaaagtaggagt	W62958
19860	attgctgctccaaagtaggagtatg	W62958
19861	gagcttaccacggtgtagagatgct	W62958
19862	cttaccacggtgtagagatgctgtg	W62958
19863	tgactgtgcaacaccacagccattg	W62958
19864	acagccattgctgacgcctagctca	W62958
19865	gccattgctgacgcctagctcacct	W62958
19866	attgctgacgcctagctcacctaga	W62958
19867	gctgacgcctagctcacctagatca	W62958
19868	gacgcctagctcacctagatcagag	W62958
19869	cgtttcaacgatatcttgggcagac	U51866
19870	ggcagacactcccgtaagcgatggg	U51866
19871	ttctacactgttgtgaaggaccagg	U51866
19872	acacctgtcagcagcgccaatatga	U51866
19873	gtcagcagcgccaatatgatgtcag	U51866
19874	agcgccaatatgatgtcagggattt	U51866
19875	gggatttcttcagtgccaactcctt	U51866
19876	tcaccagtgattgccgctgccaact	U51866
19877	gccaactcacttgggatacctgttc	U51866
19878	ctcctcgatgcagcttgcgcctgtt	U51866
19879	cgtgtctgaaccgttgcttgtggat	U51866
19880	tgaaccgttgcttgtggatttagta	U51866
19881	tttgtccacagtgaaaaccagcatc	U51866
19882	cagcatcttgtcagccctgaggcct	U51866
19883	ctgcttcgatatgaccaccagtcac	U51866
19884	cgatatgaccaccagtcacggctca	U51866
19885	gaccaccagtcacggctcactgcaa	U51866
19886	cagtcacggctcactgcaagagagg	U51866
19887	gccatggagcacccttacttctaca	U51866
19888	gagcacccttacttctacactgttg	U51866
19889	tgttcattggaccgaaagcagagga	W63835
19890	ggctgctgaccatccgataccccat	W63835
19891	agtacgtctactctaaggaccagct	W63835
19892	acgtctactctaaggaccagctgca	W63835
19893	actctaaggaccagctgcagacctt	W63835
19894	ctaaggaccagctgcagaccttctc	W63835
19895	aggaccagctgcagaccttctctga	W63835
19896	agctgcagaccttctctgaggagca	W63835
19897	tgcagaccttctctgaggagcatcc	W63835
19898	agaccttctctgaggagcatcctgt	W63835
19899	aggagcatcctgttcttctaacgga	W63835
19900	accgggacactcttctccaatatcg	W63835
19901	tgctgaccatccgataccccatgga	W63835
19902	acactcttctccaatatcgtgctgt	W63835
19903	tccgataccccatggaacacggtgt	W63835
19904	gataccccatggaacacggtgtggt	W63835
19905	atgacatggaacgcatctggcagta	W63835
19906	tggaacgcatctggcagtacgtcta	W63835
19907	aacgcatctggcagtacgtctactc	W63835
19908	gcatctggcagtacgtctactctaa	W63835
19909	ggcagtacgtctactctaaggacca	W63835
19910	ttaatccacagaacaatttgggctt	L41145
19911	gacatgggcctcagtcaaaacagcc	L41145
19912	tcatagcaccagaagggtatgctgc	L41145
19913	cacttaatgcccatatgaatgccac	L41145
19914	atgccatagtccagaccctggtaca	L41145
19915	tagtccagaccctggtacacctgat	L41145
19916	tggtacacctgatgtttccagacca	L41145
19917	cagaccatgttcccaagccttgctg	L41145
19918	atgttcccaagccttgctgtgctcc	L41145
19919	ccaagccttgctgtgctccaaccaa	L41145
19920	cttgctgtgctccaaccaaactaaa	L41145
19921	tctcggtcctgtattttgatgacag	L41145
19922	agtcaaaacagccattcatggtggc	L41145
19923	agtacgttcgtgtggctgccactag	L41145
19924	ccttcttcaaggcaagcgaggtact	L41145
62461	agcattttgcgtgtaacctttgtgg	Z31370
62462	tctcacagtacagaacttgtataac	Z31370
62463	taaactgtgtggtcaacttgccttt	Z31370
62464	tggtcaacttgcctttattgtgagg	Z31370
62465	tcaacttgcctttattgtgaggtat	Z31370
62466	acttgcctttattgtgaggtatgga	Z31370
62467	tgggccacgcgagatagcttagcta	Z31370
62468	gatagcttagctagtcatggttctt	Z31370
62469	gctagtcatggttctttaggatagc	Z31370
62470	actcacatggagttcccaaaagttg	Z31370
62471	gagttcccaaaagttgtcttctgag	Z31370
62472	ccttcaacagtcagagttcctatta	Z31370
62473	gtcagagttcctattacactcataa	Z31370
62474	gtaatttccttaagcatgaaagaag	Z31370
62475	atttccttaagcatgaaagaagtca	Z31370
62476	gtcacaccatggaaacattatccat	Z31370
62477	cattatccatatgaacaataggtaa	Z31370
62478	gcatttctgggtcctacatcccatt	Z31370
62479	cctacatcccattagaaacctatat	Z31370
62480	tgtattccattttgccaacagctcc	X14376
62481	cagctccagaaatacgctctacatc	X14376
62482	ttcacagttccagatccatggaccc	X14376
62483	tgatgtcactgtagggcccctgata	X14376
62484	cgaccagactgtggaaggctggact	X14376
62485	ctggactgcttctgctcaaacctct	X14376
62486	tgctcaaacctctgtggctcttggg	X14376
62487	cctggccacagtggcattcctgacc	X14376
62488	ggcattcctgaccctggcagctata	X14376
62489	cctgaccctggcagctatagtcctt	X14376
62490	agctatagtccttgctgtcaccagg	X14376
62491	tgctgtcaccaggaagtgtcactcc	X14376
62492	cagaaatacgctctacatcacctgc	X14376
62493	caaagtcgcgccagctaaccagatc	X14376
62494	agctaaccagatccccgataagctc	X14376
62495	taagctcaacaaagcctgttcgttc	X14376
62496	tgatgctgacatctgtgattgctgc	X14376
62497	tgacatctgtgattgctgcagccat	X14376
62498	ctgtgattgctgcagccatggcaac	X14376
62499	taattcaagctcttcacagttccag	X14376
62500	tgtacagatcctctagatgcagccg	AA058047
62501	tacagatcctctagatgcagccgtg	AA058047
62502	tttgagaacactttcggcagacaat	AA058047
62503	tgagaacactttcggcagacaatgc	AA058047
62504	aacactttcggcagacaatgcccgg	AA058047
62505	cactttcggcagacaatgcccgggc	AA058047
62506	ctttcggcagacaatgcccgggcag	AA058047
62507	cagccattgaacatgtctgtcagga	AA058047
62508	cattgaacatgtctgtcaggatgga	AA058047
62509	ttgaacatgtctgtcaggatggaat	AA058047
62510	gaacatgtctgtcaggatggaattt	AA058047
62511	acatgtctgtcaggatggaattttg	AA058047
62512	cagatcctctagatgcagccgtgct	AA058047
62513	tcctctagatgcagccgtgctcctc	AA058047
62514	agatgcagccgtgctcctctaacca	AA058047
62515	agccgtgctcctctaaccatgaatg	AA058047
62516	ccgtgctcctctaaccatgaatgag	AA058047
62517	gtgctcctctaaccatgaatgaggc	AA058047
62518	tttgtccggaacattggtagagcat	AA058047
62519	tgtccggaacattggtagagcatac	AA058047
62520	agcctttgcactgtagattctaaag	Y00137
62521	cctccatcctgaccgttgtttcaag	Y00137
62522	gcctacctagaagttcctgcacaga	Y00137
62523	gttcctgcacagagcagggtttttg	Y00137
62524	agccgtcagatgacaactaggtccc	Y00137
62525	caaaggtgtctcacctcagacagga	Y00137
62526	acctcagacaggacccatctaagag	Y00137
62527	aaagcacgaagctctaaaagccagc	Y00137
62528	cgaagctctaaaagccagccactgc	Y00137
105065	aggtacaatctttctttcagcaccg	L12589
105066	ctttctttcagcaccgtgctagctg	L12589
105067	agcaccgtgctagctgatctttcgg	L12589
105068	accgtgctagctgatctttcggaca	L12589
105069	gtgctagctgatctttcggacaact	L12589
105070	gctgatctttcggacaacttgacac	L12589
105071	atggcctgttttacagaccgcagag	M29961
105072	gttctgcttttgctaagtactgtat	M29961
105073	tacttgcagggtgtattgccatctt	M29961
105074	ttacatagacctaatatcattttat	M29961
105075	agacctaatatcattttattcacaa	M29961
105076	aatatcattttattcacaaatgtct	M29961
105077	atcattttattcacaaatgtctcac	M29961
105078	aatgtctcactgctttaaatcctac	M29961
105079	tcactgctttaaatcctaccaaagt	M29961
105080	gactgactgttgcctttggtcttac	M29961
105081	tgactgttgcctttggtcttacaaa	M29961
105082	ttgcctttggtcttacaaaatcaga	M29961
105083	ctgcttttgctaagtactgtattta	M29961
105084	tttatgtcacgcaaagcttttaaat	M29961
105085	taatatcattccttgtatcttagat	M29961
105086	cattccttgtatcttagatctgtga	M29961
105087	tccttgtatcttagatctgtgaaaa	M29961
105088	caccacttaatcttctctcttgatt	M29961
105089	cacttaatcttctctcttgattgat	M29961
105090	taccagtacttgcagggtgtattgc	M29961
105091	gcagcaggacctggagtttgccaag	M25149
105092	ggacctggagtttgccaaggagatg	M25149
105093	catatgtgcaggggtcagggatgct	M25149
105094	ccttcttgctaccatgcctctctgt	M25149
105095	ttcttgctaccatgcctctctgtag	M25149
105096	cttgctaccatgcctctctgtagct	M25149
105097	ctaccatgcctctctgtagctggtg	M25149
105098	catgcctctctgtagctggtgacag	M25149
105099	tgcctctctgtagctggtgacagta	M25149
105100	cctctctgtagctggtgacagtacc	M25149
105101	tctctgtagctggtgacagtaccct	M25149
105102	cagggtcctgcctcatggtggtgtc	M25149
105103	acctggagtttgccaaggagatggc	M25149
105104	atgacgacgacagcttcccctgagc	M25149
105105	cacacggctcacagactgcatatgt	M25149
105106	cacggctcacagactgcatatgtgc	M25149
105107	cggctcacagactgcatatgtgcag	M25149
105108	gctcacagactgcatatgtgcaggg	M25149
105109	tcacagactgcatatgtgcaggggt	M25149
105110	acagactgcatatgtgcaggggtca	M25149
105111	atcagacatagccgctgactaagtg	W09409
105112	agacatagccgctgactaagtgcag	W09409
105113	cacacgatctactgtgtgcgatgta	W09409
105114	acgatctactgtgtgcgatgtacct	W09409
105115	atctactgtgtgcgatgtacctaca	W09409
105116	tctcaagggccaagcgaagtggcac	W09409
105117	ctagctgacagggacttccacggaa	W09409
105118	gacttccacggaaagtcgcatgaag	W09409
105119	tcgcatgaagacctatcgtggcaac	W09409
105120	catgaagacctatcgtggcaacgta	W09409
105121	gaagacctatcgtggcaacgtatac	W09409
105122	gacctatcgtggcaacgtatacgag	W09409
105123	catagccgctgactaagtgcagcgc	W09409
105124	ctatcgtggcaacgtatacgagcta	W09409
105125	tgactaagtgcagcgcctcacgaat	W09409
105126	ctaagtgcagcgcctcacgaatcag	W09409
105127	agtgcagcgcctcacgaatcagcca	W09409
105128	gcagcgcctcacgaatcagccagct	W09409
105129	cacgaatcagccagctgatgaacag	W09409
105130	tcacttcacacgatctactgtgtgc	W09409
105131	cttcacacgatctactgtgtgcgat	W09409
105132	tctttacatgatgctctttgtgtgg	D90344

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
19925	aggtacttcttcgatccgtgagagc	L41145	62529	agccagccactgcttggctagacat	Y00137	105133	catgatgctctttgtgtggtgaaga	D90344
19926	ttcttcgatccgtgagagcagccag	L41145	62530	ccactgcttggctagacatccacag	Y00137	105134	gcccaggactccaccgacctggttg	D90344
19927	accgcaataaatccaactctcatca	L41145	62531	cttggctagacatccacagggaccc	Y00137	105135	aagttcgcaacagaggctgcaatca	D90344
19928	aagcctgcaagaagcacgaactcta	L41145	62532	tttcaagggtcacatccccacagtc	Y00137	105136	accatccttcggattgatgatctga	D90344
19929	agcacgaactctatgtgagtttccg	L41145	62533	gctctcacgggagtctgagacactt	Y00137	105137	aatgctgttcactctggagcccttg	D90344
19930	gtttccgagatctgggatggcagga	L41145	62534	gtctgagacacttcaggggactaca	Y00137	105138	gttcactctggagcccttgatgact	D90344
19931	tgttgctgtcattgaggtctgtccc	W63889	62535	gacacttcaggggactacatcttcc	Y00137	105139	tctggagcccttgatgactgattgg	D90344
19932	gttgctgtcattgaggtctgtccct	W63889	62536	cccagggccactccagatgctcagg	Y00137	105140	gcccttgatgactgattggatttcc	D90344
19933	catgtgcttctagagctgccctgac	W63889	62537	gccactccagatgctcaggggacga	Y00137	105141	atttataacagtgtcaggtgcaatg	D90344
19934	gtgcttctagagctgccctgacccc	W63889	62538	gggacgactcaagcctacctagaag	Y00137	105142	tgcaatgccgtagccttgggtgtct	D90344
19935	tgcttctagagctgccctgacccca	W63889	62539	actcaagcctacctagaagttcctg	Y00137	105143	gccgtagccttgggtgtctcacatt	D90344
19936	agattgggtactgtccctctctggg	W63889	62540	ggaacgcttcttccgtcagagctgt	Z16406	105144	gctctttgtgtggtgaagagagttt	D90344
19937	ttgggtactgtccctctctgggcct	W63889	62541	gactcactagcaaacgaggacagcc	Z16406	105145	aaagtacagcaagctgtccacctgg	D90344
19938	tgggtactgtccctctctgggcctc	W63889	62542	cgaacatcgtttacatggcagatgt	Z16406	105146	gtagaagctgccctgtccatatacc	D90344
19939	tgggcctccttcagcagcctgcctg	W63889	62543	tctgtggcagtgtggcttagtataa	Z16406	105147	gctgccctgtccatatacctggaaa	D90344
19940	agcagcctgcctgtctgcctcaggg	W63889	62544	attaaatgcaggcatctcgagtctg	Z16406	105148	aactatgcaacaagcatgggatctc	D90344
19941	tgcctgtctgcctcagggtggttgt	W63889	62545	tgcaggcatctcgagtctgtgtctc	Z16406	105149	cagcttgctattgcagagtttgcaa	D90344
19942	ctgtctgcctcagggtggttgtgac	W63889	62546	gagtctgtgtctcatgatggataga	Z16406	105150	tttgcaagatctctgcttgtgattc	D90344
19943	cgtgccctgggttctgtctcgaata	W63889	62547	tacactaagtgccttttattgaaga	Z16406	105151	agatctctgcttgtgattcctaata	D90344
19944	gcccttgcattgctgcttcctgtga	W63889	62548	ttgaagatgcttccacagtgaaatt	Z16406	105152	gtgattcctaatacactggcagtga	D90344
19945	cttgcattgctgcttcctgtgaact	W63889	62549	tccaaatacacttgttcctatatat	Z16406	105153	tgttttgaccattggacttagtctg	M25775
19946	ttgcattgctgcttcctgtgaactg	W63889	62550	atgtttgctttggcttgcactgaaa	Z16406	105154	ttttgaccattggacttagtctgca	M25775
19947	gcattgctgcttcctgtgaactgag	W63889	62551	atttgctaccaagagcaaacttgat	Z16406	105155	ctggacagatcttctctgatacccc	M25775
19948	cattgctgcttcctgtgaactgagt	W63889	62552	gacagccgcgatagtgaccacagct	Z16406	105156	ggacagatcttctctgataccccaa	M25775
19949	tgctgcttcctgtgaactgagtggt	W63889	62553	cacagctctgagcacgcacacttat	Z16406	105157	acagatcttctctgataccccaaag	M25775
19950	cttcctgtgaactgagtggtccatg	W63889	62554	cacgcacacttatgatacctacaaa	Z16406	105158	agatcttctctgataccccaaagct	M25775
19951	tgagctagccagccagtaagttcaa	L33415	62555	cacttatgatacctacaaagaccag	Z16406	105159	atcttctctgataccccaaagcttg	M25775
19952	gctagccagccagtaagttcaagga	L33415	62556	tgatacctacaaagaccagctccat	Z16406	105160	cttctctgataccccaaagcttgga	M25775
19953	aaactcaggtcttcctggacagcag	L33415	62557	ctacaaagaccagctccattctcag	Z16406	105161	tctctgataccccaaagcttggacg	M25775
19954	cctgtctctaagggccgcccgtatg	L33415	62558	ttctcaggaaagcaccattgtgatg	Z16406	105162	tctgataccccaaagcttggacgaa	M25775
19955	ccgtatgtgtaccgctgagtgttcc	L33415	62559	ggaaagcaccattgtgatggcaaac	Z16406	105163	tgataccccaaagcttggacgaatc	M25775
19956	tatgtgtaccgctgagtgttcctga	L33415	62560	ccgtgctgaatgctgtctcgccatc	X61433	105164	ataccccaaagcttggacgaatctg	M25775
19957	ggaacacagaccatcagtttcactt	L33415	62561	tgctgaatgctgtctcgccatctct	X61433	105165	ttgaccattggacttagtctgcagt	M25775
19958	acacagaccatcagtttcactttaa	L33415	62562	ttctctggaggcatcatgcgctggt	X61433	105166	ccattggacttagtctgcagtgcaa	M25775
19959	cagaccatcagtttcactttaagca	L33415	62563	atgcgctggtgctgcgtccttatga	X61433	105167	attggacttagtctgcagtgcaaag	M25775
19960	tgctttaatcccaaccagaaataat	L33415	62564	aatgttttgaccatttttcatggtgg	X61433	105168	tggacttagtctgcagtgcaaagag	M25775
19961	aatcccaaccagaaataatcatcct	L33415	62565	agcaatgcagtaccccatagactgg	X61433	105169	gacttagtctgcagtgcaaagagag	M25775
19962	aaccagaaataatcatccttgttat	L33415	62566	gtaccccatagactggtgttaagtg	X61433	105170	cttagtctgcagtgcaaagagagag	M25775
19963	cccaacactgtggtcccagatcagc	L33415	62567	ccccatagactggtgttaagtgttg	X61433	105171	tccctgttgagactggacagatctt	M25775
19964	aacactgtggtcccagatcagctgc	L33415	62568	agtgcaaatccatgttctagcatat	X61433	105172	gactggacagatcttctctgatacc	M25775
19965	actgtggtcccagatcagctgctac	L33415	62569	gcaaatccatgttctagcatatgta	X61433	105173	gtccgcgaacgaccgcagacagcgc	AA109109
19966	ccagatcagctgctacgcccagatt	L33415	62570	aatccatgttctagcatatgtaata	X61433	105174	gaacgaccgcagacagcgccggagg	AA109109
19967	gatcagctgctacgcccagatttta	L33415	62571	tacagtgctcttgttgatcttgtgt	X61433	105175	caccaagaagaggccccagaggcta	AA109109
19968	ctacgcccagattttacacagtgct	L33415	62572	tccccgtgtcctccagtgtgttctg	X61433	105176	gaggccccagaggctacgtccaatg	AA109109
19969	gattttacacagtgctggggaccca	L33415	62573	ccgtgtcctccagtgtgttctgcag	X61433	105177	aggccccagaggctacgtccaatgt	AA109109
19970	acacagtgctggggacccaaactca	L33415	62574	tctgcagctgtgtctgagactggga	X61433	105178	gccccagaggctacgtccaatgtct	AA109109
19971	cgcatccgccagacagtcaaccggg	U02098	62575	atctgcctgtcactgtggctagtga	X61433	105179	ccccagaggctacgtccaatgtctt	AA109109
19972	ggctccacgcagggccagaccattg	U02098	62576	ctgtcactgtggctagtgatgggct	X61433	105180	ccagaggctacgtccaatgtcttcg	AA109109
19973	gacaacaagcgcttcttcttcgatg	U02098	62577	tccttctttccttctctggaggca	X61433	105181	aggctacgtccaatgtcttcgccat	AA109109
19974	aagcgcttcttcttcgatgtgggtt	U02098	62578	ttctttccttctctggaggcatca	X61433	105182	ttaaggaggccttcaacatgattga	AA109109
19975	tccaacaagtacggcgtgtttatgc	U02098	62579	tttcctttctctggaggcatcatgc	X61433	105183	aggaggccttcaacatgattgatca	AA109109
19976	aagtacggcgtgtttatgcgagtga	U02098	62580	tgattctaattttcttgagaagaac	X72959	105184	ggaagaaccccacagacgagtatct	AA109109
19977	gccaagttcggacacaccttctgca	U02098	62581	tgaaccacgaacgattgaagatttc	X72959	105185	ggagcttttctgtctctgcgagcag	AA109109
19978	ttctgcaagtactccgaggagatga	U02098	62582	caccattcttgcctataagaagttc	X72959	105186	gcttttctgtctctgcgagcagtgg	AA109109
19979	caacagcagcagcaagaggagacca	U02098	62583	gacaaagcttgtgcccaaatgtggc	X72959	105187	cttttctgtctctgcgagcagtgga	AA109109
19980	cacgcatacacatacgtgtacacac	U02098	62584	atatgcacttattctttcatgaaaa	X72959	105188	tgtctctgcgagcagtggaaacccc	AA109109
19981	tacacatacgtgtacacacacacac	U02098	62585	ggtatatcaacatctgtcccctaca	X72959	105189	cccaacacccaaaggcaagatgtcg	AA109109
19982	gccacacacagagaaaatatactgt	U02098	62586	tcaacatctgtcccctacattatgg	X72959	105190	ccaacacccaaaggcaagatgtcga	AA109109
19983	acgcagggccagaccattgcgctgc	U02098	62587	aaatcatagacatcaaatagctctt	X72959	105191	aacacccaaaggcaagatgtcgagc	AA109109
19984	cccgcacagggtctcatcgagttcc	U02098	62588	tagacatcaaatagctctttctgca	X72959	105192	acacccaaaggcaagatgtcgagca	AA109109
19985	cagggtctcatcgagttccgtgacg	U02098	62589	tcaaatagctctttctgcaaaatta	X72959	105193	ggtagcccagctgtgtgacttcaat	AA138226
19986	ctcatcgagttccgtgacgctctgg	U02098	62590	agctctttctgcaaaattaaccatt	X72959	105194	agcccagctgtgtgacttcaatccc	AA138226
19987	gctctggccaagctcatcgacgact	U02098	62591	ttctgcaaaattaaccatttatgta	X72959	105195	catgtccctgaagcaaacaccactg	AA138226
19988	gccaagctcatcgacgactatggag	U02098	62592	tataagtacatactaccaggtatct	X72959	105196	gaagcaaacaccactgtcccgctag	AA138226
19989	ggcacctccttgactgtggacaaca	U02098	62593	tacatactaccaggtatctcgaaca	X72959	105197	gtcccgctaggtgcccgtcacgaga	AA138226
19990	tccttgactgtggacaacaagcgct	U02098	62594	ggtatctcgaacatctgtgatgaca	X72959	105198	gaacgacatgggccttgctggggca	AA138226
19991	gaacctcgtgttcatccagtataac	W63876	62595	gatgacaaacacatcactttgttcc	X72959	105199	gcagctgcttccgccagagtggaac	AA138226
19992	acctcgtgttcatccagtataacag	W63876	62596	cctacataccaaagacggagtccat	X72959	105200	gctgcttccgccagagtggaacttc	AA138226

TABLE 1

SEQ ID NO	sequence	DBAxnID
19993	gacaccgacctttttcatgccttact	W63876
19994	ttttcatgccttacttcgaagccat	W63876
19995	ttcatgccttacttcgaagccattc	W63876
19996	catgccttacttcgaagccattcag	W63876
19997	acttcgaagccattcagaagggcac	W63876
19998	gccattcagaagggcaccggcgccc	W63876
19999	tcgacatggcctaccgggttctggc	W63876
20000	gacatggcctaccgggttctggctg	W63876
20001	catggcctaccgggttctggctgac	W63876
20002	tggcctaccgggttctggctgacca	W63876
20003	tgttcatccagtataacagggagtc	W63876
20004	ttcatccagtataacagggagtcgg	W63876
20005	tgaaacctcttcccaagaaaagcat	W63876
20006	ctcttcccaagaaaagcatcgacac	W63876
20007	cttcccaagaaaagcatcgacacag	W63876
20008	ctggtgtctgtgctgcagaacaaga	W63876
20009	tgtctgtgctgcagaacaagatgtc	W63876
20010	caagatgtccaactacgacaccgac	W63876
20011	tctttcccaaagagtttgagacagc	AA050268
20012	acagcggagactctgctgaactcgg	AA050268
20013	tcatgaaaaccctcaactacacggc	AA050268
20014	cgcttcagccggttcaaaaacagag	AA050268
20015	cttcagccggttcaaaaacagagag	AA050268
20016	cagagagaccattgccagtgtgcgc	AA050268
20017	gagagaccattgccagtgtgcgcac	AA050268
20018	gaccattgccagtgtgcgcacgttg	AA050268
20019	ccagtgtgcgcacgttgcttctcca	AA050268
20020	tgcgcacgttgcttctccagaaaaa	AA050268
20021	cgcacgttgcttctccagaaaaagt	AA050268
20022	gcttctccagaaaaagttacataag	AA050268
20023	gagactctgctgaactcggaagtcc	AA050268
20024	gactctgctgaactcggaagtccac	AA050268
20025	ctgctgaactcggaagtccacatgc	AA050268
20026	tgaactcggaagtccacatgcttct	AA050268
20027	cacatgcttctggagcatcgaaagc	AA050268
20028	gctgtcggaggtcttcatgaaaacc	AA050268
20029	gtcttcatgaaaaccctcaactaca	AA050268
20030	cttcatgaaaaccctcaactacacg	AA050268
20031	gtatggcctgcaggcgtacacagaa	U07235
20032	cctgcaggcgtacacagaagtgaag	U07235
20033	aagctcagtgcagaccgatcacgcg	U07235
20034	agtgcagaccgatcacgcgtccaga	U07235
20035	gcagaccgatcacgcgtccagatgt	U07235
20036	gaccgatcacgcgtccagatgtgca	U07235
20037	aggatgctgccttcaacctgcagtc	U07235
20038	ctgccttcaacctgcagtccctaag	U07235
20039	ccttcaacctgcagtccctaagcag	U07235
20040	tcaacctgcagtccctaagcagcaa	U07235
20041	tgcagtccctaagcagcaaatgagc	U07235
20042	agtccctaagcagcaaatgagcaat	U07235
20043	tactgtcaaagtgccacagaagaac	U07235
20044	agtgccacagaagaactcgtaaagc	U07235
20045	ctcgtaaagcggcatgcctgcttcc	U07235
20046	aagcggcatgcctgcttcctcagcc	U07235
20047	ctgagaaaaaccgccacacacactg	U07235
20048	ttcaccaaagtgtcttgggtcaaga	U07235
20049	gaaagctcctgataaactgggtagg	U07235
20050	atgaagctcagtgcagaccgatcac	U07235
20051	acgagcagcttcaaacctgtcctcc	U43921
20052	agcttcaaacctgtcctccctgtgc	U43921
20053	ctgggcattcagcctcctgtcctta	U43921
20054	attaggagcctctgcctcctgcctg	U43921
20055	tgcctcctgcctgtgtatcctggct	U43921
20056	gcacgctagctagtagctggtaagg	U43921
20057	ttctgtttcctgcttagtggcactg	U43921
20058	cagtcctctgcagtactctagagag	U43921
20059	tctgcagtactctagagagtggctt	U43921
20060	ttggctgtgggcaggccctaactgt	U43921
62597	taccaaagacggagtccatggctta	X72959
62598	agtccatggcttaatgggcaccatt	X72959
62599	aatgggcaccattcttgcctataag	X72959
62600	tgtgtcttatgtctatgtggcatac	X15052
62601	atcacataaagaccagcatggccaa	X15052
62602	tccgtctggatggtggtgatcacac	X15052
62603	gtggtgatcacacctccattaacat	X15052
62604	ttaacatccttacccagcattctgt	X15052
62605	tccttacccagcattctgtacttcg	X15052
62606	agtgaaacatcaacaccacctttgt	X15052
62607	acatcaacaccacctttgtttccat	X15052
62608	cctttgtttccattctcactgctgt	X15052
62609	tttccattctcactgctgtaaatac	X15052
62610	ttctcactgctgtaaatactgagta	X15052
62611	ctttgcattctgtcagaatacttgt	X15052
62612	taaagaccagcatggccaagttccg	X15052
62613	ccagcatggccaagttccgtgggaa	X15052
62614	ggtctcccagtcctgaagggccaag	X15052
62615	ccagtcctgaagggccaaggtgtat	X15052
62616	aggattctatgtcctcattttctat	X15052
62617	ctatgtcctcattttctatgggacc	X15052
62618	cctcattttctatgggacctcccat	X15052
62619	tttctatgggacctcccatgcccag	X15052
62620	cacctgtattgtgggcacagggacc	AA058287
62621	ctgtattgtgggcacagggaccagc	AA058287
62622	aacattgttcccacagagcactgct	AA058287
62623	attgttcccacagagcactgcttcc	AA058287
62624	cccacagagcactgcttcctgggaa	AA058287
62625	cactgcttcctgggaaatggtacag	AA058287
62626	acagagtaccgaggcgtggccagca	AA058287
62627	ctgagctgcctggcctggaattctg	AA058287
62628	tgcctggcctggaattctgacctgc	AA058287
62629	gcctggaattctgacctgctctacc	AA058287
62630	tggaattctgacctgctctaccagg	AA058287
62631	tctgacctgctctaccaggagctgc	AA058287
62632	cacagggaccagcgtctgcacctgc	AA058287
62633	taccaggagctgcacgtggactcag	AA058287
62634	cagcgtctgcacctgcccgttgcgt	AA058287
62635	ctgcccgttgcgtatgctgggcggt	AA058287
62636	cccgttgcgtatgctgggcggttct	AA058287
62637	gcgtatgctgggcggttctgtaaca	AA058287
62638	tatgctgggcggttctgtaacattg	AA058287
62639	ttctgtaacattgttcccacagagc	AA058287
62640	tgtaacattgttcccacagagcact	AA058287
62641	gctacaatcagagctcctacacaca	X12875
62642	gctcctacacacaatggaacctaca	X12875
62643	tcatcctctgcttcatcaaacgcag	X12875
62644	tcatcaaacgcagcaagggtggcaa	X12875
62645	gcgagtacaggtccctggagagtga	X12875
62646	acaggtccctggagagtgacaatga	X12875
62647	aggcctttggcagcagccagccatc	X12875
62648	agccatctctcaacggagacatcaa	X12875
62649	acatcaaaccccctaggcagtgatga	X12875
62650	gtgatgacagcctggctgattatgg	X12875
62651	atggctctttcatcggccagtacag	X12875
62652	ctcctatcaatcctgcagtagccct	X12875
62653	acacacaatggaacctacagcctga	X12875
62654	acctacagcctgacaccaaatatga	X12875
62655	agaaggtcctcctgcaccatctgga	X12875
62656	tgcaccatctggatgtgaagactaa	X12875
62657	ggttcatcgccttttgtcagcgctat	X12875
62658	tcgcctttgtcagcgctatcattct	X12875
62659	gcgctatcattctcttgctcctcat	X12875
62660	tcctgctcatcctctgcttcatcaa	X12875
62661	acaacggagtttgctagcgggcagt	AA059619
62662	tgggctggcattgttctggacgatc	AA059619
62663	tctggacgatccataagggaagaat	AA059619
62664	taacggcattgttgttagagtccat	AA059619
105201	gcttccgccagagtggaacttcctc	AA138226
105202	gcagctgcacacacagcctgttctg	AA138226
105203	gctgcacacacagcctgttctgttc	AA138226
105204	gcacacacagcctgttctgttcctc	AA138226
105205	gtgtgacttcaatcccaagagcagc	AA138226
105206	cacacagcctgttctgttcctctga	AA138226
105207	tgacttcaatcccaagagcagcaag	AA138226
105208	cttcaatcccaagagcagcaagcag	AA138226
105209	caatcccaagagcagcaagcagtgt	AA138226
105210	tcccaagagcagcaagcagtgtaaa	AA138226
105211	ctcggtgctcatgtccctgaagcaa	AA138226
105212	ggtgctcatgtccctgaagcaaaca	AA138226
105213	gctcatgtccctgaagcaaacacca	AA138226
105214	tttccttcctttgaagaagcattct	M62418
105215	tccttcctttgaagaagcattcttg	M62418
105216	ctgctttctgggacactgaccctgt	M62418
105217	gctttctgggacactgaccctgtcc	M62418
105218	gagccaagcaggtggcatgggccaa	M62418
105219	tggcatgggccaagtggctgccttt	M62418
105220	atgggccaagtggctgcctttatct	M62418
105221	gggccaagtggctgcctttatctcc	M62418
105222	caagtggctgcctttatctcctttc	M62418
105223	agtggctgcctttatctcctttctt	M62418
105224	gctgcctttatctcctttcttctga	M62418
105225	tgcctttatctcctttcttctgaaa	M62418
105226	agaagcattcttgagcccagccatc	M62418
105227	aagcattcttgagcccagccatccc	M62418
105228	agccaggcagcttctctgcctggga	M62418
105229	ccaggcagcttctctgcctgggacg	M62418
105230	cagtgtccagccagggccagggaag	M62418
105231	agaggcctgctttctgggacactga	M62418
105232	aggcctgctttctgggacactgacc	M62418
105233	gcctgctttctgggacactgaccct	M62418
105234	ccacgccactggatgctggacaaac	AA028728
105235	acgccactggatgctggacaaactg	AA028728
105236	tgcatgcagcggctcattaaggtcg	AA028728
105237	catgcagcggctcattaaggtcgac	AA028728
105238	tgcagcggctcattaaggtcgacgg	AA028728
105239	ctcattaaggtcgacggcaaggtca	AA028728
105240	cattaaggtcgacggcaaggtcaga	AA028728
105241	tgtggcctacccagctggcttcatg	AA028728
105242	tggcctacccagctggcttcatgga	AA028728
105243	gcgagaacttccgcctcgtctacga	AA028728
105244	ttccgcctcgtctacgacaccaagg	AA028728
105245	gcctcgtctacgacaccaagggccg	AA028728
105246	atgctggacaaactgaccggtgtgt	AA028728
105247	gctggacaaactgaccggtgtgttc	AA028728
105248	tggacaaactgaccggtgtgttcgc	AA028728
105249	tgccgctcgccatcttcctgaggaa	AA028728
105250	gctcgccatcttcctgaggaacagg	AA028728
105251	gccatcttcctgaggaacaggctca	AA028728
105252	catcttcctgaggaacaggctcaag	AA028728
105253	acaggctcaagtacgccctgaccgg	AA028728
105254	gactatctgatactgcactgcaaga	W09442
105255	ctatctgatactgcactgcaagagg	W09442
105256	gttatccacatacagatgtcttacc	W09442
105257	cacatacagatgtcttaccatgaga	W09442
105258	catacagatgtcttaccatgagagt	W09442
105259	tacagatgtcttaccatgagagtct	W09442
105260	cagatgtcttaccatgagagtctct	W09442
105261	gatgtcttaccatgagagtctctca	W09442
105262	tgtcttaccatgagagtctctcagt	W09442
105263	tcttaccatgagagtctctcagtgg	W09442
105264	catgagagtctctcagtggtctcta	W09442
105265	tgagagtctctcagtggtctctaca	W09442
105266	atctgatactgcactgcaagaggat	W09442
105267	gacagactacgaccgctaacgttat	W09442
105268	ctacgaccgctaacgttatccacat	W09442

TABLE 1

SEQ ID NO	sequence	DBAxnID
20061	taactgttttctgcaaagttgaggg	U43921
20062	cctcgcatatttagttcctgtattc	U43921
20063	gtcctccctgtgcttggtggcttgc	U43921
20064	ggcttgctcacaggtgcgctctggc	U43921
20065	ctcacaggtgcgctctggctaccca	U43921
20066	ctctggctacccagacatttcctat	U43921
20067	ctacccagacatttcctatcctcag	U43921
20068	ttcctatcctcagaacttcccatct	U43921
20069	ttcttcctgaacctgggcattcagc	U43921
20070	ctgaacctgggcattcagcctcctg	U43921
20071	ctttaattctcacttcttcatcatc	W63935
20072	ttaattctcacttcttcatcatctg	W63935
20073	ttcttgacttctggttgtagatctc	W63935
20074	tcttgacttctggttgtagatctct	W63935
20075	ttgacttctggttgtagatctctcg	W63935
20076	tgacttctggttgtagatctctcgc	W63935
20077	acttctggttgtagatctctcgcta	W63935
20078	ggttgtagatctctcgctatgaatg	W63935
20079	gttgtagatctctcgctatgaatgg	W63935
20080	tgtagatctctcgctatgaatggat	W63935
20081	gtagatctctcgctatgaatggata	W63935
20082	tctctcgctatgaatggataatgct	W63935
20083	taattctcacttcttcatcatctgg	W63935
20084	attctcacttcttcatcatctggtt	W63935
20085	ttctcacttcttcatcatctggttg	W63935
20086	cacatgtattcttgacttctggttg	W63935
20087	catgtattcttgacttctggttgta	W63935
20088	atgtattcttgacttctggttgtag	W63935
20089	gtattcttgacttctggttgtagat	W63935
20090	tattcttgacttctggttgtagatc	W63935
20091	atcagcagagtggttatgggaaagt	U11274
20092	aaagtatccaggcgaggtggacatc	U11274
20093	catttgaaggtggctcctgtcgact	U11274
20094	tggctcctgtcgactaatagcagtt	U11274
20095	gctcctgtcgactaatagcagttca	U11274
20096	tcctgtcgactaatagcagttcaaa	U11274
20097	ctatcaagttcctgaatggaagtat	U11274
20098	aattctgagttctcattaaaagaat	U11274
20099	ttctgagttctcattaaaagaattt	U11274
20100	tcttaattcgtatgcttcagtatca	U11274
20101	ttaattcgtatgcttcagtatcaat	U11274
20102	ttcgtatgcttcagtatcaatttgt	U11274
20103	agtatccaggcgaggtggacatcaa	U11274
20104	atagctacaaaccatactaaattat	U11274
20105	tattccatttgcaacttatccccaa	U11274
20106	ttccatttgcaacttatccccaaca	U11274
20107	ccatttgcaacttatccccaacagg	U11274
20108	ttgcaacttatccccaacaggtggt	U11274
20109	cttatccccaacaggtggtgaagca	U11274
20110	tccccaacaggtggtgaagcagtat	U11274
20111	attcggatccatggttcgagttcct	AA108822
20112	ggatccatggttcgagttcctcagc	AA108822
20113	ttcatccatgaccagacttcctcca	AA108822
20114	gggaacatacaaggccttactgcg	AA108822
20115	acataccaaggccttactgcgactg	AA108822
20116	ataccaaggccttactgcgactgta	AA108822
20117	caaggccttactgcgactgtactga	AA108822
20118	aggccttactgcgactgtactgaag	AA108822
20119	gccttactgcgactgtactgaagca	AA108822
20120	cttactgcgactgtactgaagcagg	AA108822
20121	tactgcgactgtactgaagcagggc	AA108822
20122	ctgcgactgtactgaagcagggctc	AA108822
20123	atccatggttcgagttcctcagcaa	AA108822
20124	ggttcgagttcctcagcaaccacat	AA108822
20125	cgagttcctcagcaaccacatgcgg	AA108822
20126	accacatgcgggatgccaaggtagg	AA108822
20127	aggctcgacagcaggagaggactat	AA108822
20128	gtagtcgtgtgccctatggagacca	AA108822
62665	tgttagagtccattacttcatgtgt	AA059619
62666	gttagagtccattacttcatgtgtt	AA059619
62667	tagagtccattacttcatgtgtttc	AA059619
62668	agagtccattacttcatgtgtttcc	AA059619
62669	gagtccattacttcatgtgtttccc	AA059619
62670	gtccattacttcatgtgtttcccct	AA059619
62671	tccattacttcatgtgtttcccctt	AA059619
62672	gctggcattgttctggacgatccat	AA059619
62673	gcattgttctggacgatccataagg	AA059619
62674	cattgttctggacgatccataaggg	AA059619
62675	attgttctggacgatccataaggga	AA059619
62676	ttgttctggacgatccataagggaa	AA059619
62677	tgttctggacgatccataagggaag	AA059619
62678	gttctggacgatccataagggaaga	AA059619
62679	ttctggacgatccataagggaagaa	AA059619
62680	tgtcagccaacaggctgccaggcct	AA059664
62681	ccaacaggctgccaggcctgccgga	AA059664
62682	cccctctgagccatctcaagagtct	AA059664
62683	ctctgagccatctcaagagtctgga	AA059664
62684	tgagccatctcaagagtctggacct	AA059664
62685	atctcaagagtctggacctcagcca	AA059664
62686	tcaagagtctggacctcagccacaa	AA059664
62687	agtttgcctggagcgacctgcacaa	AA059664
62688	acaacctcagcgctctgcagctgct	AA059664
62689	acctcagcgctctgcagctgctcaa	AA059664
62690	tgcagctgctcaagatggacagcaa	AA059664
62691	tcatccctcgggacgcctttagcag	AA059664
62692	ccttcagggaagtgcccctattgca	AA059664
62693	aagtgcccctattgcagtcgctgtg	AA059664
62694	tgcagtcgctgtggctggcacacaa	AA059664
62695	tgtggctggcacacaatgagatccg	AA059664
62696	atgagatccgctcggtggctattgg	AA059664
62697	agatccgctcggtggctattggtgc	AA059664
62698	tggctattggtgctctggccccctct	AA059664
62699	ttggtgctctggcccctctgagcca	AA059664
62700	gcttactcacagccagctaactgct	X92397
62701	tcacagccagctaactgctactaaa	X92397
62702	attatacttggtgtggagaacacac	X92397
62703	ccatactcataattgagcattagtc	X92397
62704	caatagcttcagccatatcttagct	X92397
62705	cttcagccatatcttagctatatcc	X92397
62706	ccatatcttagctatatccacctgt	X92397
62707	cacctgtctatgtgaagcttgttgc	X92397
62708	tgaagcttgttgccgtagtggtggc	X92397
62709	ttgttgccgtagtggtggcccgact	X92397
62710	tggtggcccgacttattgtctgaaa	X92397
62711	tgaagtctccccatgttttcaaata	X92397
62712	ccagctaactgctactaaaataact	X92397
62713	taacacatgggttcttttatgtgac	X92397
62714	atgtgacagcgggactcctgaccac	X92397
62715	ataatctgaagccttttgtgaggaa	X92397
62716	agcaggctttcacacatacacactc	X92397
62717	ctttcacacatacacactcaggtgg	X92397
62718	cacactcaggtggatcctgcactga	X92397
62719	gatcctgcactgactctggagaagg	X92397
62720	gtcgccgatcgcgtcggaagcagca	AA059755
62721	tcgccgatcgcgtcggaagcagcaa	AA059755
62722	actgctggccaggagcgatatagtg	AA059755
62723	ctgctggccaggagcgatatagtgc	AA059755
62724	tgctggccaggagcgatatagtgct	AA059755
62725	atatagtgctattacgtctgcgtag	AA059755
62726	tagtgctattacgtctgcgtagtaa	AA059755
62727	agtgctattacgtctgcgtagtaat	AA059755
62728	gtgctattacgtctgcgtagtaata	AA059755
62729	tattacgtctgcgtagtaatatgat	AA059755
62730	ttacgtctgcgtagtaatatgatgc	AA059755
62731	tacgtctgcgtagtaatatgatgca	AA059755
62732	ccgatcgcgtcggaagcagcaagac	AA059755
105269	gaccgctaacgttatccacatacag	W09442
105270	ccgctaacgttatccacatacagat	W09442
105271	gctaacgttatccacatacagatgt	W09442
105272	taacgttatccacatacagatgtct	W09442
105273	acgttatccacatacagatgtctta	W09442
105274	tgttgccattttgctgagcatagtt	M62419
105275	cattttgctgagcatagttggctca	M62419
105276	tgctggtctgtatgccggatagttg	M62419
105277	atagttgctctgcctgggccggctg	M62419
105278	ccagcccttgaccacatcagtgttt	M62419
105279	cttgaccacatcagtgttttctcag	M62419
105280	agtgttttctcagaagggcacatgg	M62419
105281	ttctcagaagggcacatggcctcag	M62419
105282	cacatggcctcagcctttgccctaa	M62419
105283	aggctaccctcactgtacaaggcct	M62419
105284	ccctcactgtacaaggcctcgttgt	M62419
105285	ctgtacaaggcctcgttgtcctgga	M62419
105286	attgtcattgtcatctgtggctgtc	M62419
105287	attgtcatctgtggctgtcctgtca	M62419
105288	ggctgtcctgtcacctttcttcaag	M62419
105289	acctttcttcaagtgtcctgtgcag	M62419
105290	gctgccatgctgcacttaatgaggg	M62419
105291	atgctgcacttaatgagggcagctg	M62419
105292	gtcccctatccatgctggtctgtat	M62419
105293	tatccatgctggtctgtatgccgga	M62419
105294	tcttccttgggtacatatcgttatg	W09299
105295	cgttatggagactcctcttgagaag	W09299
105296	ggagtactctgtgttcctgaccacg	W09299
105297	gtactctgtgttcctgaccacgctg	W09299
105298	ctctgtgttcctgaccacgctgtgc	W09299
105299	tgtgttcctgaccacgctgtgcatg	W09299
105300	gttcctgaccacgctgtgcatggcc	W09299
105301	cctgaccacgctgtgcatggcctac	W09299
105302	gaccacgctgtgcatggcctacaat	W09299
105303	gctgtgcatggcctacaatgacttc	W09299
105304	ggcctacaatgacttcttcctagag	W09299
105305	ctacaatgacttcttcctagaggac	W09299
105306	tatggagactcctcttgagaaggca	W09299
105307	caatgacttcttcctagaggacaac	W09299
105308	ggagactcctcttgagaaggcactg	W09299
105309	gactcctcttgagaaggcactgacc	W09299
105310	tcctcttgagaaggcactgaccacc	W09299
105311	caccatggtcaccactttccataaa	W09299
105312	catggtcaccactttccataaatat	W09299
105313	tagcaagctgaccctgagtaggaaa	W09299
105314	caagctgaccctgagtaggaaagaa	W09299
105315	caagttcctctggccaggctttggc	AA110781
105316	aagttcctctggccaggctttggcg	AA110781
105317	cgcccatcggctacatccctaagga	AA110781
105318	gcccatcggctacatccctaaggaa	AA110781
105319	tgtttgggatctctaaggagttctg	AA110781
105320	ggatctctaaggagttctgggagaa	AA110781
105321	gatctctaaggagttctgggagaag	AA110781
105322	atctctaaggagttctgggagaagg	AA110781
105323	tctctaaggagttctgggagaagga	AA110781
105324	agatcgacaggtatctggaggacca	AA110781
105325	gatcgacaggtatctggaggaccag	AA110781
105326	tcccttacgaaattgagagggagct	AA110781
105327	agttcctctggccaggctttggcga	AA110781
105328	tggccaggctttggcgagaactccc	AA110781
105329	gctttggcgagaactcccgggtgct	AA110781
105330	ctttggcgagaactcccgggtgctg	AA110781
105331	tttggcgagaactcccgggtgctgg	AA110781
105332	ttggcgagaactcccgggtgctgga	AA110781
105333	agaactcccgggtgctggagtggat	AA110781
105334	acgcccatcggctacatccctaagg	AA110781
105335	atgaccacaacctgcagtatcttca	M99054
105336	tgcagtatcttcaggacgagaacgg	M99054

TABLE 1

SEQ ID NO	sequence	DBAxnID
20129	gtgtgccctatggagaccatcaagg	AA108822
20130	gtgccctatggagaccatcaaggtg	AA108822
20131	atcatctcttcaatttcggatgtga	W63974
20132	atctcttcaatttcggatgtgaaat	W63974
20133	aagttgtgctccctctatgaaaacg	W63974
20134	ttgtgctccctctatgaaaacgact	W63974
20135	tcagacagcgtcatcatgacaggct	W63974
20136	agcgtcatcatgacaggctcctaca	W63974
20137	gtcatcatgacaggctcctacaata	W63974
20138	atcatgacaggctcctacaataact	W63974
20139	acaggctcctacaataacttcttca	W63974
20140	ggctcctacaataacttcttcagga	W63974
20141	atgttcgaccgaaacaccaagcgtg	W63974
20142	ttcgaccgaaacaccaagcgtgatg	W63974
20143	tatatcatgaccagagactatctga	W63974
20144	cgaaacaccaagcgtgatgtgaccc	W63974
20145	atcatgaccagagactatctgaccg	W63974
20146	agagactatctgaccgtgaaagtct	W63974
20147	gactatctgaccgtgaaagtctggg	W63974
20148	atggaaaatcgccccattgagacat	W63974
20149	aatcgccccattgagacataccagg	W63974
20150	taccaggttcatgactacctccgca	W63974
20151	agcaagttgtgctccctctatgaaa	W63974
20152	aagacaactacctcaatggaaacag	U14666
20153	actacctcaatggaaacaggtgtat	U14666
20154	tgtcaagttttcatccaggtagagt	U14666
20155	agcgcccttgtagctatagctgcct	U14666
20156	gctatagctgcctagtttgctgttc	U14666
20157	tagtttgctgttctagatctaccaa	U14666
20158	gctgttctagatctaccaaggccta	U14666
20159	ctagatctaccaaggcctaccttct	U14666
20160	tgaatttgacttcctgtcagtcctt	U14666
20161	tgacttcctgtcagtcctttagaaa	U14666
20162	atgccatgttctgaattctgatgcc	U14666
20163	tgttctgaattctgatgccatttct	U14666
20164	ccacattttctcagcagatacacac	U14666
20165	tttctcagcagatacacacttgtct	U14666
20166	agcagatacacacttgtctgttaga	U14666
20167	gattttgatcatctcatcccacaag	U14666
20168	ccacaagcctgaaggcagaaactct	U14666
20169	aggcagaaactctgccttaccttct	U14666
20170	cacgctgttgtctgttgatgctgct	U14666
20171	tgctgctgtcaagttttcatccagg	U14666
20172	gcatcgcacaaatgtttgataagat	W64014
20173	tcctcgtgtatattgtgttgtatca	W64014
20174	ctattctatgcgaggctttggtgaa	W64014
20175	tgaaactctattgctccttgtgtat	W64014
20176	aactctattgctccttgtgtattta	W64014
20177	gctccttgtgtatttacgtgtacac	W64014
20178	cctagttcttcagacaccactacac	W64014
20179	gtatcggccctagcttacttgccaat	W64014
20180	tcggccctagcttacttgccaatcat	W64014
20181	ctagctacttgccaatcatgttgta	W64014
20182	gctacttgccaatcatgttgtacta	W64014
20183	acttgccaatcatgttgtactatgc	W64014
20184	tgttgtatcagctcaatgcttccta	W64014
20185	tgtatcagctcaatgcttcctatcg	W64014
20186	agctcaatgcttcctatcggctctt	W64014
20187	tcaatgcttcctatcggctctttat	W64014
20188	atgcttcctatcggctctttatgac	W64014
20189	atcggctctttatgactattctatg	W64014
20190	ggctctttatgactattctatgcga	W64014
20191	ttatgactattctatgcgaggcttt	W64014
20192	tgaactcttattctacagactgttt	U09421
20193	cttattctacagactgtttggcaag	U09421
20194	gctcttttacttgacagtagaggtt	U09421
20195	tactcgtagaaacacacttgtagcc	U09421
20196	cacacttgtagcccgggaagactgg	U09421

SEQ ID NO:	sequence	DBAxnID
62733	cgatcgcgtcggaagcagcaagaca	AA059755
62734	gatcgcgtcggaagcagcaagacaa	AA059755
62735	gccacacgcagcattcaggtagacg	AA059755
62736	cacacgcagcattcaggtagacggc	AA059755
62737	acacgcagcattcaggtagacggca	AA059755
62738	aacactgctggccaggagcgatata	AA059755
62739	acactgctggccaggagcgatatag	AA059755
62740	tcaccatcagcaagtcggtaaaggt	X05640
62741	gtgaccgtagcccgcaggagtccaa	X05640
62742	ctaccaaatacatcaccaaatctgt	X05640
62743	ccaaatacatcaccaaatctgtaac	X05640
62744	aatacatcaccaaatctgtaaccgt	X05640
62745	acatcaccaaatctgtaaccgtcac	X05640
62746	tcaccaaatctgtaaccgtcactca	X05640
62747	ccgtcactcaaaaggttgaagagca	X05640
62748	aggtcacttcacacgccatagtcaa	X05640
62749	tcacttcacacgccatagtcaagga	X05640
62750	cttcacacgccatagtcaaggaagt	X05640
62751	cacacgccatagtcaaggaagtcac	X05640
62752	gtagcccgcaggagtccaagaagga	X05640
62753	gcccgcaggagtccaagaaggaaga	X05640
62754	tcactaatggcttagatgtgagccc	X05640
62755	tagatgtgagccctgcagaggagaa	X05640
62756	atgtgagccctgcagaggagaagaa	X05640
62757	tgagccctgcagaggagaagaaagg	X05640
62758	atggtgctaccaaatacatcaccaa	X05640
62759	gtgctaccaaatacatcaccaaatc	X05640
62760	gtctccgccacagatggactaagcg	X55316
62761	tccgccacagatggactaagcgaag	X55316
62762	cctccttgtaccataagtagctgta	X55316
62763	aatgtagcttcctgatgcttgacta	X55316
62764	gtagcttcctgatgcttgactaatt	X55316
62765	gcttcctgatgcttgactaattgag	X55316
62766	gagtttgttgctctgtatgacgcct	X55316
62767	gttgctctgtatgacgcctgtatgc	X55316
62768	gctctgtatgacgcctgtatgcatt	X55316
62769	ctgtatgacgcctgtatgcattgta	X55316
62770	gacgcctgtatgcattgtatattgc	X55316
62771	tttattactgtcagagatttgtaga	X55316
62772	gaggcattcactaaccagttaccag	X55316
62773	tacacaacgtcttaccaacagattt	X55316
62774	acaacgtcttaccaacagatttctg	X55316
62775	taccaacagatttctggtgtccagc	X55316
62776	caacagatttctggtgtccagcaaa	X55316
62777	ttttcatgatcggaaggacggacgg	X55316
62778	gtgaagctgcctccttgtaccataa	X55316
62779	aagctgcctccttgtaccataagta	X55316
62780	aagccttcagtcgactctcgtcact	X79828
62781	tcagtcgactctcgtcactcacgca	X79828
62782	tgattcagcacgaaaggacgcatac	X79828
62783	ccaatttgcacgaccatcagagaac	X79828
62784	atttgcacgaccatcagagaactca	X79828
62785	tgcacgaccatcagagaactcacac	X79828
62786	ttcacgcccggaataaactgcagga	X79828
62787	gcacggccgaacgatctgcttccaa	X79828
62788	gatctgcttccaacccagtgtcaga	X79828
62789	ctgcttccaacccagtgtcagagga	X79828
62790	ccaacccagtgtcagaggattctga	X79828
62791	tttggacactgtgtatagagaaaac	X79828
62792	gtcgactctcgtcactcacgcaaca	X79828
62793	gactctcgtcactcacgcaacacga	X79828
62794	cactcacgcaacacgagaggaccca	X79828
62795	aacacgagaggacccacactggcga	X79828
62796	tcagtcaaagctcatccctgattca	X79828
62797	gtcaaagctcatccctgattcagca	X79828
62798	aaagctcatccctgattcagcacga	X79828
62799	ccctgattcagcacgaaaggacgca	X79828
62800	atcagcgatgcgaacatcagcattg	AA059886

SEQ ID NO	sequence	DBAxnID
105337	agataagccccaaagaaatgaccat	M99054
105338	ctggaaaatcactctttaagaccag	M99054
105339	tctttaagaccagcctcccaaggag	M99054
105340	gacccagaccctgaacaccacgaga	M99054
105341	gaccctgaacaccacgagagtcctg	M99054
105342	gacctcactcacggcagcttctctg	M99054
105343	ggcagcttctctgccctggtactct	M99054
105344	ctttcctttcagtcaagtcttactg	M99054
105345	tttcagtcaagtcttactgtcactg	M99054
105346	tcaagtcttactgtcactgctattc	M99054
105347	ccggcaacttcatggatccctctgt	M99054
105348	ttactgtcactgctattcaataaaa	M99054
105349	acttcatggatccctctgtgcgaca	M99054
105350	tggatccctctgtgcgacatcaacg	M99054
105351	cctctgtgcgacatcaacgaaaggt	M99054
105352	acggctacttgcggtttcactatgg	M99054
105353	ggtttcactatggatctgaggactc	M99054
105354	aggactccctgggcggcttcacaca	M99054
105355	gcggcttcacacatgtggagataag	M99054
105356	aagacacccatgggaaacagagtgt	M88127
105357	gcagtcctgtgcaaaccgtgggtct	M88127
105358	cacctagcgggactgttgctgccag	M88127
105359	cgtctcagatccctacgccagtgag	M88127
105360	agatccctacgccagtgagcaccaa	M88127
105361	ctacgccagtgagcaccaacacgaa	M88127
105362	cgccagtgagcaccaacacgaagaa	M88127
105363	cagtgagcaccaacacgaagaagag	M88127
105364	tgagcaccaacacgaagaagagaga	M88127
105365	gcaccaacacgaagaagagagattc	M88127
105366	tcacagaatccagtggagcccaaag	M88127
105367	cagaatccagtggagcccaaagtcc	M88127
105368	tcaactcctttgttcaggtagaggc	M88127
105369	gacagagtaacccagtctctatagc	M88127
105370	gtaacccagtctctatagcagagac	M88127
105371	acccagtctctatagcagagactgc	M88127
105372	ccagcaagcacagctcacctagcgg	M88127
105373	agcacagctcacctagcgggactgt	M88127
105374	acagctcacctagcgggactgttgc	M88127
105375	gctcacctagcgggactgttgctgc	M88127
105376	gtcagatatccagcgggatgaactg	L04538
105377	agatatccagcgggatgaactggct	L04538
105378	ttcagctgagccctactgcccttct	L04538
105379	tttattgctccttaaggtgacctgg	L04538
105380	taaggtgacctgggtcccaggtatg	L04538
105381	gacctgggtcccaggtatgtatgtc	L04538
105382	ctgggtcccaggtatgtatgtcact	L04538
105383	tatgtatgtcactccctggaattca	L04538
105384	gtatgtcactccctggaattcacca	L04538
105385	tccctggaattcaccatcccacgtt	L04538
105386	ctggaattcaccatcccacgtttct	L04538
105387	ttcactaacatcccaataaactcct	L04538
105388	tatccagcgggatgaactggctcct	L04538
105389	ggatgaactggctccttccgggact	L04538
105390	tgaactggctccttccgggactgga	L04538
105391	gtcccgagaggccttgtcaggtctg	L04538
105392	agaggccttgtcaggtctgctgatc	L04538
105393	ggccttgtcaggtctgctgatcatg	L04538
105394	aggtctgctgatcatgggagctgga	L04538
105395	gctgccttcagctgagccctactgc	L04538
105396	ggtggaccagcttgtggagatcatc	AA003230
105397	gagatgaaccctaactatacggagt	AA003230
105398	attgcactctgctctagcctactgg	AA003230
105399	ctctgctctagcctactggagtaca	AA003230
105400	tgctctagcctactggagtacacgc	AA003230
105401	ctactggagtacacgccatcctcaa	AA003230
105402	ctggagtacacgccatcctcaaggc	AA003230
105403	gagtacacgccatcctcaaggctct	AA003230
105404	cacagcttcttcgatgaactgcgga	AA003230

TABLE 1

SEQ ID NO	sequence	DBAxnID
20197	gttctattctatacccacagtgacc	U09421
20198	ttctatacccacagtgaccacctgc	U09421
20199	acccacagtgaccacctgcttcatt	U09421
20200	cacctgcttcatttatagggttagg	U09421
20201	caaggcctgggcttggcatcaaatg	U09421
20202	catttgagcaatctgcaaggactat	U09421
20203	aatgccctttctatgggtcagataa	U09421
20204	tggcaagccctgcttctaactgtgt	U09421
20205	gccctgcttctaactgtgtgggaag	U09421
20206	cttctaactgtgtgggaagtaatca	U09421
20207	tgtggcctctgtaggctgctcacag	U09421
20208	aggctgctcacagcatggaggcacc	U09421
20209	ctcacagcatggaggcaccacatgc	U09421
20210	aggcaccacatgctggtcttgggta	U09421
20211	atgtgtcttggctgctcagtatggg	U09421
20212	ctccccaagggctcactaagccaga	
20213	tccccaagggctcactaagccagag	
20214	cactaagccagaggccaaagtgccc	
20215	acccaagttctcatgccctccgagg	
20216	caagttctcatgccctccgagggct	
20217	aagttctcatgccctccgagggctg	
20218	ccccaagggctcactaagccagagg	
20219	aagggctcactaagccagaggccaa	
20220	agggctcactaagccagaggccaaa	
20221	gggctcactaagccagaggccaaag	
20222	ggctcactaagccagaggccaaagt	
20223	gctcactaagccagaggccaaagtg	
20224	ctcactaagccagaggccaaagtgc	
20225	tcactaagccagaggccaaagtgcc	
20226	ggcctctaggcccttggcctgcctc	
20227	ctgcctccccaagggctcactaagc	
20228	gctcactaagccagaggccaaagtg	
20229	tcactaagccagaggccaaagtgcc	
20230	cactaagccagaggccaaagtgccc	
20231	taccacccaagttctcatgccctcc	
20232	acccaagttctcatgccctccgagg	
20233	aagttctcatgccctccgagggctg	
20234	atgtacatatttatcacccttcca	
20235	tgtacatatttatcacccttccac	
20236	gtacatatttatcacccttccaca	
20237	catatttatcacccttccacaaat	
20238	tgcctccccaagggctcactaagcc	
20239	gcctccccaagggctcactaagcca	
20240	ctccccaagggctcactaagccaga	
20241	tccccaagggctcactaagccagag	
20242	ccccaagggctcactaagccagagg	
20243	aagggctcactaagccagaggccaa	
20244	gggctcactaagccagaggccaaag	
20245	ggctcactaagccagaggccaaagt	
20246	atcctgcagctggtagatgtgtttg	W64026
20247	gtgtttgtgacccgcaaagaatact	W64026
20248	tactactcggagcgagacacgagca	W64026
20249	tactcggagcgagacacgagcaacg	W64026
20250	caggtcctggaggctgtggctactt	W64026
20251	gtcctggaggctgtggctacttgca	W64026
20252	tgcactctctcaagattgtgcacag	W64026
20253	actctctcaagattgtgcacaggaa	W64026
20254	ctctcaagattgtgcacaggaacct	W64026
20255	ttgtgcacaggaacctcaagctaga	W64026
20256	tgcacaggaacctcaagctagaaaa	W64026
20257	tgtactacaacaggctaaagaactc	W64026
20258	tttgtgacccgcaaagaatacttca	W64026
20259	gtgacccgcaaagaatacttcatct	W64026
20260	gaatacttcatctttctggagctgg	W64026
20261	atctttctggagctggccacgggga	W64026
20262	tttgactggatcctggaccagggct	W64026
20263	gactggatcctggaccagggctact	W64026
20264	gaccagggctactactcggagcgag	W64026
62801	tgcgaacatcagcattgctgctggg	AA059886
62802	cactggccccaaggaccaaggccag	AA059886
62803	atattcagtcgagtttgctggaaaa	AA059886
62804	tattcagtcgagtttgctggaaaag	AA059886
62805	ttcagtcgagtttgctggaaaagct	AA059886
62806	tcagtcgagtttgctggaaaagctc	AA059886
62807	agctctatcgaaaccgatccaactt	AA059886
62808	gctctatcgaaaccgatccaacttg	AA059886
62809	tctatcgaaaccgatccaacttgga	AA059886
62810	ctatcgaaaccgatccaacttggag	AA059886
62811	gaaaccgatccaacttggagaccat	AA059886
62812	gcgaacatcagcattgctgctgggc	AA059886
62813	gaacatcagcattgctgctgggccc	AA059886
62814	aacatcagcattgctgctgggcccc	AA059886
62815	catcagcattgctgctgggccccct	AA059886
62816	atcagcattgctgctgggccccta	AA059886
62817	aattcattatgcattagggcaaaaa	AA059886
62818	gtgagttcactggccccaaggacca	AA059886
62819	tcactggccccaaggaccaaggcca	AA059886
62820	gacagtgacctggactgtgggcctc	X02611
62821	gggcctctcatgcaccaccatcaag	X02611
62822	ttcagacctttccagactcttccct	X02611
62823	cagactcttccctgaggtgcaatgc	X02611
62824	cttccctgaggtgcaatgcacagcc	X02611
62825	gcaatgcacagccttcctcacagag	X02611
62826	ctctaccttgttgcctcctcttttg	X02611
62827	ttggtgaccaggctgtcgctacatc	X02611
62828	accaggctgtcgctacatcactgaa	X02611
62829	gactgtaattgccctacagtcaatt	X02611
62830	aattgccctacagtcaattgagaga	X02611
62831	tgccctacagtcaattgagagaaat	X02611
62832	caccaccatcaaggactcaaatggg	X02611
62833	gctttccgaattcactggagcctcg	X02611
62834	cactggagcctcgaatgtccattcc	X02611
62835	gaatgtccattcctgagttctgcaa	X02611
62836	tcaggttgcctctgtctcagaatga	X02611
62837	tgcctctgtctcagaatgaggctgg	X02611
62838	gataagatctcaggccttcctacct	X02611
62839	atctcaggccttcctaccttcagac	X02611
62840	cagaatcgccgcaacaagtggaagc	X75330
62841	gaatcgccgcaacaagtggaagcga	X75330
62842	cgaccttgggctcactgccttgcct	X75330
62843	ttcgaatcgattttcgtgcaattaa	X75330
62844	cgaatcgattttcgtgcaattaatt	X75330
62845	attaattcctatgaatttgaggcgc	X75330
62846	taattcctatgaatttgaggcgctt	X75330
62847	attcctatgaatttgaggcgcttct	X75330
62848	gaatttgaggcgcttctcctcttat	X75330
62849	atttgaggcgcttctcctcttattt	X75330
62850	tggttttgcttaccattgagagaaa	X75330
62851	tttgcttaccattgagagaaaacgg	X75330
62852	agcgcatcgtacgcgtgcccatcct	X75330
62853	atcctctaccacgagaactctgcgg	X75330
62854	tctaccacgagaactctgcggccga	X75330
62855	taccacgagaactctgcggccgagg	X75330
62856	ccctactaaggccggtgtgagatgg	X75330
62857	actaaggccggtgtgagatgggaca	X75330
62858	ctgtggccagcgaccttgggctcac	X75330
62859	agcgaccttgggctcactgccttgc	X75330
62860	cttcaggtaccaatggggatcccag	AA059967
62861	ttcaacccgtgcaaacggtcgcagc	AA059967
62862	cggttcatcgtgggatgagtgctgc	AA059967
62863	ggttcatcgtgggatgagtgctgct	AA059967
62864	tcatcgtgggatgagtgctgcttcc	AA059967
62865	tgagtgctgcttccgaactgccacc	AA059967
62866	tgctgcttccgaactgccaccctgg	AA059967
62867	tgccaccctggccttcctgtagaca	AA059967
62868	caccctggccttcctgtagacatac	AA059967
105405	agcttcttcgatgaactgcggagac	AA003230
105406	gatgaactgcggagactcggagccc	AA003230
105407	gaactgcggagactcggagcccagc	AA003230
105408	gagttcaagttcccccagatcaaag	AA003230
105409	ttcaagttcccccagatcaaagctc	AA003230
105410	ttcaaatcttcaaagacaccacctg	AA003230
105411	aaatcttcaaagacaccacctgagg	AA003230
105412	tcttcaaagacaccacctgaggcca	AA003230
105413	acaccacctgaggccattgcactct	AA003230
105414	ccacctgaggccattgcactctgct	AA003230
105415	gaggccattgcactctgctctagcc	AA003230
105416	ttcggcacgtaggggcttgtgcaca	W20621
105417	cttgtgcacagcgcacgtcatgtga	W20621
105418	gcacacagggcactggtagggcttc	W20621
105419	cttctcgtccgaatgcgacacgtta	W20621
105420	gtccgaatgcgacacgttatgtcgg	W20621
105421	atgcgacacgttatgtcggttcagg	W20621
105422	gaaggccttgccgcacatctcgcag	W20621
105423	ggccttgccgcacatctcgcaggcg	W20621
105424	catctcgcaggcgtgattcttccgg	W20621
105425	cttccggatgcgcttcccagaggca	W20621
105426	gatgcgcttcccagaggcagtcgtg	W20621
105427	cccagaggcagtcgtggtcacaacg	W20621
105428	cacagcgcacgtcatgtgagcgcac	W20621
105429	agcgcacgtcatgtgagcgcacgtg	W20621
105430	gcacgtcatgtgagcgcacgtggta	W20621
105431	agcgcacgtggtaactcatgcggtc	W20621
105432	aactcatgcggtccttgcgcttgaa	W20621
105433	ggtccttgcgcttgaagcgtgctgg	W20621
105434	gcttgaagcgtgctggcacacaggg	W20621
105435	ctggcacacagggcactggtagggc	W20621
105436	cagtgtatctcggagctgggtattt	U35456
105437	cacctgcttcgaaccaaagccgtgg	U35456
105438	atagacctccaaagcttcagggaag	U35456
105439	cagcagccttccagccgaggaccag	U35456
105440	ttccattagaagacttctggaggtc	U35456
105441	acttctggaggtccccagatctttg	U35456
105442	ccccagatctttggagtgtgggaat	U35456
105443	aaaggctcataaaccctgcaagtct	U35456
105444	tcataaaccctgcaagtcttcatgg	U35456
105445	caagtcttcatggtcttctcaccag	U35456
105446	ttcatggtcttctcaccagcctttc	U35456
105447	tcaccagcctttccagcaggttcta	U35456
105448	accaaagccgtggagcatgcagacg	U35456
105449	ctggacttcactcaggaggccttct	U35456
105450	ttcactcaggaggccttctatcccc	U35456
105451	ctgtacttggcactcctcttctgag	U35456
105452	ttggcactcctcttctgaggggttg	U35456
105453	ctcctcttctgaggggttgcccctg	U35456
105454	gtccctatcttaggggagcttgtct	U35456
105455	tcttccatagacctccaaagcttca	U35456
105456	ggacaacgcaagttccaggcgcaga	W29163
105457	cgcaagttccaggcgcagaaaccta	W29163
105458	gtaatgaaggccagctccagcctgc	W29163
105459	agctccagcctgcctaagaggcttg	W29163
105460	tccagcctgcctaagaggcttgcac	W29163
105461	agcctgcctaagaggcttgcactgc	W29163
105462	aggcttgcactgctgaagggagcat	W29163
105463	cttgcactgctgaagggagcatcaa	W29163
105464	aaatcagaagccaccatccctggca	W29163
105465	atccctggcaagacaccatcctgaa	W29163
105466	cctggcaagacaccatcctgaaggc	W29163
105467	ggcaagacaccatcctgaaggcact	W29163
105468	ttccaggcgcagaaacctaaaagca	W29163
105469	cctcggaaaggcggtcgagtcatcg	W29163
105470	ggtcgagtcatcgctcccaagaagg	W29163
105471	cgagtcatcgctcccaagaaggcgc	W29163
105472	atcgctcccaagaaggcgcgcgttg	W29163

TABLE 1

SEQ ID NO	sequence	DBAxnID
20265	cagggctactactcggagcgagaca	W64026
20266	ggttccatttttgcctggagattca	X74145
20267	tccatttttgcctggagattcagat	X74145
20268	ggacgacctgctggagctcatccaa	X74145
20269	cctgctggagctcatccaaggcctg	X74145
20270	gctcatccaaggcctgttcttattt	X74145
20271	agcctcacaggcattgaagaccaag	X74145
20272	gctcccgcgaccaaactgtccggtg	X74145
20273	gaatccaaccgtggcaacaaagcgg	X74145
20274	attgcccaagaagctcatttttag	X74145
20275	gttgcagcgcacaatggacagtttc	X74145
20276	aatggacagtttcactgctgaaata	X74145
20277	tttcactgctgaaataaatgatcca	X74145
20278	atttttgcctggagattcagatctt	X74145
20279	agatcttgatcagctaacaaggata	X74145
20280	tgaaactctgggtacaccaactgaa	X74145
20281	gggtacaccaactgaagagcagtgg	X74145
20282	tacaccaactgaagagcagtggcct	X74145
20283	catgtgtagtcttcccgattatgtg	X74145
20284	tcttcccgattatgtgacatttaag	X74145
20285	gcagcacatcttcatcgcggctggg	X74145
20286	tctcgctgtatcgtcaagtctccaa	W63862
20287	cgctgtatcgtcaagtctccaatat	W63862
20288	gcaatttcgcgagcgagctttaaga	W63862
20289	cgtagcctctttgactacatgagcc	W63862
20290	agcctctttgactacatgagccacg	W63862
20291	ctctttgactacatgagccacggct	W63862
20292	gactacatgagccacggctaactcg	W63862
20293	tacatgagccacggctaactcgcgc	W63862
20294	taactcgcgccttctggaactggtg	W63862
20295	gcgccttctggaactggtgccttta	W63862
20296	tctggaactggtgcctttagtcccg	W63862
20297	ggtgcctttagtcccgcgaagcaat	W63862
20298	tgtatcgtcaagtctccaatattga	W63862
20299	atcgtcaagtctccaatattgaggc	W63862
20300	aagtctccaatattgaggcgcttac	W63862
20301	tctccaatattgaggcgcttacccg	W63862
20302	atattgaggcgcttacccgagttcg	W63862
20303	cgcttacccgagttcgcagctggag	W63862
20304	cccgagttcgcagctggagacgatg	W63862
20305	ttcgcagctggagacgatgcggtgt	W63862
20306	acatggtcaccctggccactgaggc	U22396
20307	ctgaggctctggcagcgacagcggt	U22396
20308	atgttcggatccacacagcccaagc	U22396
20309	ggatccacacagcccaagcactggt	U22396
20310	acacagcccaagcactggtcatgtt	U22396
20311	tcatgttccagacggatgcggactt	U22396
20312	cggatgcggacttctaccagcagta	U22396
20313	cggacttctaccagcagtatgggcc	U22396
20314	agatgctgcaggctggagagctcgt	U22396
20315	ggatggcaccctaggactcagaagg	U22396
20316	ctgccccattccctagagaataaat	U22396
20317	cattccctagagaataaatgattat	U22396
20318	ctctggcagcgacagcggtcactca	U22396
20319	cagcgacagcggtcactcagctcac	U22396
20320	tcactcagctcacagtggtaccagt	U22396
20321	ccgcagtgacagctgacgagacgga	U22396
20322	gtgattcctgtggggacaagttcct	U22396
20323	agttcctggatgccaatagcctagc	U22396
20324	ccaatagcctagcccagcatgttcg	U22396
20325	gcctagcccagcatgttcggatcca	U22396
20326	atctcactccgttgttcttggcact	U37543
20327	ctccgttgttcttggcacttttgat	U37543
20328	accacaggcactagctggactcctt	U37543
20329	ggcactagctggactcctttctcta	U37543
20330	actccttttctctatccctagacaat	U37543
20331	ttctctatccctagacaattattct	U37543
20332	taattccttgggctttataagagca	U37543
62869	accctggccttcctgtagacatact	AA059967
62870	cttcctgtagacatactgtgtcaac	AA059967
62871	ttcctgtagacatactgtgtcaacc	AA059967
62872	tcaacccgtgcaaacggtcgcagcg	AA059967
62873	ccgtgcaaacggtcgcagcggttca	AA059967
62874	tgcaaacggtcgcagcggttcatcg	AA059967
62875	gcaaacggtcgcagcggttcatcgt	AA059967
62876	aacggtcgcagcggttcatcgtggg	AA059967
62877	cggtcgcagcggttcatcgtgggat	AA059967
62878	tcgcagcggttcatcgtgggatgag	AA059967
62879	cgcagcggttcatcgtgggatgagt	AA059967
62880	atctggaccaagtcggaacagcacc	X83570
62881	agccgcacaagatcctaccatgaag	X83570
62882	tattcctgccttgctccctcatttc	X83570
62883	atgtgtcacttgatttggatatatt	X83570
62884	atatattcaaccagtaattgaatcc	X83570
62885	cttcactgatcttgcttatccctgg	X83570
62886	tgatcttgcttatccctggtctcac	X83570
62887	tccctggtctcacgcagcagttgtg	X83570
62888	gtagtgtctccccagctagattgta	X83570
62889	atggacctctcctgtcttgtagtgt	X83570
62890	ctctcctgtcttgtagtgtcctagg	X83570
62891	tgtcttgtagtgtcctaggaccctg	X83570
62892	acaagatcctaccatgaagatcgaa	X83570
62893	acagcccatcaaccagcagaatgga	X83570
62894	catcaaccagcagaatggacattct	X83570
62895	acattctgacatcaccagctgaagc	X83570
62896	tgacatcaccagctgaagccctaca	X83570
62897	ccctacatctcggtgcagaagagaa	X83570
62898	gctgccccttgcctatggcacacat	X83570
62899	ctatggcacacatatttcctgccttg	X83570
62900	tccatcggcaggtcccctgacagca	AA163305
62901	cctgacagcatccttgtcacggcca	AA163305
62902	tatgcacctcctgtggattccttcc	AA163305
62903	cctgtggattccttcctctgagtgc	AA163305
62904	gtggattccttcctctgagtgctcc	AA163305
62905	ttctgaaggacttcctcagcgtttc	AA163305
62906	tgaaggacttcctcagcgtttccta	AA163305
62907	tcgttagcctttggtggagttgcca	AA163305
62908	ttagcctttggtggagttgccagct	AA163305
62909	gaatttgcacacctggaagcttggc	AA163305
62910	tttgcacacctggaagcttggcagt	AA163305
62911	gcacacctggaagcttggcagtctc	AA163305
62912	gacagcatccttgtcacggccagtg	AA163305
62913	atccttgtcacggccagtgtgaagg	AA163305
62914	cttgtcacggccagtgtgaaggaag	AA163305
62915	gtcacggccagtgtgaaggaagcag	AA163305
62916	gcagcagaagccttcctcggcttct	AA163305
62917	gcagaagccttcctcggcttctcct	AA163305
62918	ttctcctatgcacctcctgtggatt	AA163305
62919	tcctatgcacctcctgtggattcct	AA163305
62920	ggttgacaacatctccgggaatgga	AA059802
62921	tgacaacatctccgggaatggaaag	AA059802
62922	agaccaagcagcttgcagaaatgct	AA059802
62923	ccaagcagcttgcagaaatgcttcc	AA059802
62924	ttgcagaaatgcttcccaggatcct	AA059802
62925	aaatgcttcccaggatccttcacca	AA059802
62926	tgcttcccaggatccttcaccagct	AA059802
62927	ttcccaggatccttcaccagcttgg	AA059802
62928	ccaggatccttcaccagcttggtgc	AA059802
62929	ggatccttcaccagcttggtgcaga	AA059802
62930	ttcaccagcttggtgcagaaaacct	AA059802
62931	caacccttggtaactgagagggatg	AA059802
62932	catggttacaaacccagggacagtg	AA059802
62933	cttctaacaattcaaggcacgccga	AA059802
62934	ctaacaattcaaggcacgccgagac	AA059802
62935	acaattcaaggcacgccgagaccaa	AA059802
62936	attcaaggcacgccgagaccaagca	AA059802
105473	gctcccaagaaggcgcgcgttgttc	W29163
105474	aaggcgcgcgttgttcagcagcaga	W29163
105475	cgcgttgttcagcagcagaagttga	W29163
105476	aataggttccctcacagggctcttg	AA023065
105477	taggttccctcacagggctcttgtc	AA023065
105478	tctgtagcggcctcggaatcttcta	AA023065
105479	tgtagcggcctcggaatcttctatc	AA023065
105480	tagcggcctcggaatcttctatccc	AA023065
105481	ggcctcggaatcttctatcccgact	AA023065
105482	cctcggaatcttctatcccgactgc	AA023065
105483	tcggaatcttctatcccgactgcgt	AA023065
105484	ggaatcttctatcccgactgcgtga	AA023065
105485	atcccgactgcgtgacgggcttcgt	AA023065
105486	cgactgcgtgacgggcttcgtctcc	AA023065
105487	actgcgtgacgggcttcgtctcctt	AA023065
105488	gctcttgtctttcctaaatggactt	AA023065
105489	gaggcaatccaatctttcctcggat	AA023065
105490	ggcaatccaatctttcctcggatgg	AA023065
105491	atccaatctttcctcggatggcact	AA023065
105492	ccaatctttcctcggatggcactgt	AA023065
105493	aatctttcctcggatggcactgtta	AA023065
105494	tctttcctcggatggcactgttaaa	AA023065
105495	cttctgtagcggcctcggaatcttc	AA023065
105496	tctgcaggctgagctggaaatccag	M11310
105497	tgccttggaacccgggcagagagtg	M11310
105498	ggctaggacctataccattcttctc	M11310
105499	gacctataccattcttctctctcct	M11310
105500	taccattcttctctctcctccagta	M11310
105501	tcccagcagcactaggaactgcttg	M11310
105502	tcagcctaggcgcctaagtgacctt	M11310
105503	cctaagtgacctttgtgagctaccg	M11310
105504	gctaccggccgcccttttgtgagtg	M11310
105505	gttatcactcattccttggtcagc	M11310
105506	tcccacacaccctggagcatagcag	M11310
105507	atagcagagctgtgctactggagat	M11310
105508	agacaaacagacttcaaagggccag	M11310
105509	caataaaccgttttgatatgcatgc	M11310
105510	ttcaaagggccagaccctgtcctgg	M11310
105511	gaccctgtcctgggtgctgactaag	M11310
105512	agcttgaacacctcctctttctctg	M11310
105513	ccatgtttgcggcctgtgacctgct	M11310
105514	ttgcggcctgtgacctgctgcacca	M11310
105515	acctgctgcaccagctccgggctga	M11310
105516	tgcaccagctccgggctgaagtggt	M11310
105517	tacagccacattggcagccgtgacc	M13071
105518	ggcagccgtgaccagatcatcttta	M13071
105519	caccagggagccaatttcagcatac	M13071
105520	aatttcagcataccatgccaaggca	M13071
105521	agcataccatgccaaggcacaccga	M13071
105522	cagccaataactgttctgcctctgc	M13071
105523	ataactgttctgcctctgccttgat	M13071
105524	gttctgcctctgccttgatactgcc	M13071
105525	cctctgccttgatactgcctcagga	M13071
105526	tactgcctcaggattccctatccca	M13071
105527	ttttatctccaatggctgtgactca	M13071
105528	ctccaatggctgtgactcagtgcaa	M13071
105529	cgtgaccagatcatctttatggtgg	M13071
105530	tggctgtgactcagtgcaaggattc	M13071
105531	cagatcatctttatggtgggccgtg	M13071
105532	ctcagcaaaatcttcagtaattgcc	M13071
105533	ttcagtaattgccccaaagccatga	M13071
105534	attctggccacgatcgagctactgc	M13071
105535	gccacgatcgagctactgcagcggt	M13071
105536	atcgagctactgcagcggtcactcc	M13071
105537	gagttgcctgcttgccttctcagcg	M13071
105538	ctctttttacggcatatgccgtgaa	L13290
105539	atggcaagtcaccatggcagtgggg	L13290
105540	tcttcccgcagccctttggtgtgaa	L13290

TABLE 1

SEQ ID NO	sequence	DBAxnID
20333	cagccccattggacaagaatgcagg	U37543
20334	attgcagccaagaccttaaacaggt	U37543
20335	tcccagccaggctacagtggcctgt	U37543
20336	ccaggctacagtggcctgtcctgag	U37543
20337	tacagtggcctgtcctgagttccag	U37543
20338	tgttcttggcacttttgatcctaag	U37543
20339	tggcacttttgatcctaagccttag	U37543
20340	tcctaagccttaggaagctgctgaa	U37543
20341	gctgccattatcacccaggaagtca	U37543
20342	attatcacccaggaagtcagcgatg	U37543
20343	gtctcaatacaaccttggggcctca	U37543
20344	atacaaccttggggcctcaatcaat	U37543
20345	ggcctcaatcaatcagagtagcagc	U37543
20346	ggcctcctacatcaagcaacagcct	L35949
20347	ctacatcaagcaacagcctctgtcc	L35949
20348	tttcaatgccatggcctcttcttct	L35949
20349	tgccatggcctcttcttctatgcat	L35949
20350	ggcctcttcttctatgcatacaaca	L35949
20351	ttcttctatgcatacaacaggcgga	L35949
20352	aggatcttactatcaccagcaggtc	L35949
20353	cacctaccaagacatcaagccgtgt	L35949
20354	ccaagacatcaagccgtgtgtgatg	L35949
20355	catcaagccgtgtgtgatgtgaggt	L35949
20356	cgccacaaactgctttactctggag	L35949
20357	ccaacacagactgggagcagcgtct	L35949
20358	ggagcagccataccttcaccaaaac	L35949
20359	cagtcacaacgggccggcagaactg	L35949
20360	agaactgcaaggcatccctcggtat	L35949
20361	catccctcggtatcactcacagtcg	L35949
20362	tcggtatcactcacagtcgcccagc	L35949
20363	tcactcacagtcgcccagcatgtgt	L35949
20364	acagtcgcccagcatgtgtgacaga	L35949
20365	gtttgtcttctctttcaatgccatg	L35949
20366	atgcttcactggaaaacattgccca	U15636
20367	gatttccccatttgtttgcagaaca	U15636
20368	ccatagctcttctgaatagtaaagc	U15636
20369	catgagttccaatcagtgttcactc	U15636
20370	cttagcttcaccttgggcacgattt	U15636
20371	tcagtggcaggccagaggattcatg	U15636
20372	attcatgctttcccttctcctgatc	U15636
20373	ccttctcctgatccagaagatcacc	U15636
20374	cctgatccagaagatcaccatggca	U15636
20375	gatcaccatggcaaaggcttatagt	U15636
20376	agtgtcttcaacatcgtgcaaatat	U15636
20377	ttcaacatcgtgcaaatatgacagc	U15636
20378	atatcaaacacatttcttcagttac	U15636
20379	aacacatttcttcagttactggtgg	U15636
20380	ggccagtcgctgcagtcacttacta	U15636
20381	tcgctgcagtcacttactatcgcat	U15636
20382	attatttgcagaatctctttcttga	U15636
20383	atctctttcttgatactgcagccaa	U15636
20384	atactgcagccaatgatgccatagc	U15636
20385	cagccaatgatgccatagctcttct	U15636
20386	tactgcctcctgtttacaatcagca	U14103
20387	ctcctgtttacaatcagcagaacga	U14103
20388	tgatcccggactctgcaaacgtctt	U14103
20389	acgtcttttacgccatgaatagcca	U14103
20390	agttgcgcagtcggaccagcctgac	U14103
20391	ggaccagcctgactttgcccaggac	U14103
20392	gcctgactttgcccaggacagctaa	U14103
20393	ctttgcccaggacagctaagcgggg	U14103
20394	gacagtacactcctactgcccaagg	U14103
20395	ctactgcccaaggcagagtgaggct	U14103
20396	aaagccatggcgacgccaaccacca	U14103
20397	agaattcagctgtgcagagagcact	U14103
20398	tttacaatcagcagaacgaagacac	U14103
20399	agaacgaagacacctgcatcatccg	U14103
20400	aagacacctgcatcatccgcatcag	U14103

SEQ ID NO:	sequence	DBAxnID
62937	caaggcacgccgagaccaagcagct	AA059802
62938	ggcacgccgagaccaagcagcttgc	AA059802
62939	ccgagaccaagcagcttgcagaaat	AA059802
62940	aactaggctttgcgttggcaccctg	AA066043
62941	gctttgcgttggcaccctgacaaga	AA066043
62942	tacgaccgggcaggctgtgacagat	AA066043
62943	ggtgcaatgtcccccatagcagtcc	AA066043
62944	gcaatgtcccccatagcagtccctt	AA066043
62945	atgtcccccatagcagtcccttcgg	AA066043
62946	tcggtgctggctatcccttccgaaa	AA066043
62947	gtgctggctatcccttccgaaatcc	AA066043
62948	ctggctatcccttccgaaatcctga	AA066043
62949	gctatcccttccgaaatcctgagga	AA066043
62950	atcccttccgaaatcctgaggatat	AA066043
62951	tctgggacactccgttcagcggccg	AA066043
62952	ttgcgttggcaccctgacaagaacc	AA066043
62953	tggcaccctgacaagaaccccgaca	AA066043
62954	tccgaagcctacgaagtcttgtcag	AA066043
62955	gcctacgaagtcttgtcagactcta	AA066043
62956	gaagtcttgtcagactctaagaagc	AA066043
62957	gtcttgtcagactctaagaagcgtt	AA066043
62958	cgttctgtgtacgaccgggcaggct	AA066043
62959	tctgtgtacgaccgggcaggctgtg	AA066043
62960	aggtgtccagtcgagcagaaaagtg	X70514
62961	ctgtacctgtcgccagcaccaatgt	X70514
62962	ggatcatctaccccaagcagtacaa	X70514
62963	tctaccccaagcagtacaatgccta	X70514
62964	ccaagcagtacaatgcctatcgctg	X70514
62965	cctacatccagagcctgctgaaacg	X70514
62966	tccagagcctgctgaaacgatacca	X70514
62967	tgaagaccaagccactgagcatgct	X70514
62968	ccaagccactgagcatgctttatgt	X70514
62969	tttatgtggacaatggcagggtcct	X70514
62970	tcctggaacaccacaaggacatgat	X70514
62971	aacaccacaaggacatgattgtgga	X70514
62972	ccagcaccaatgtgctcatgctcta	X70514
62973	accggcctcaggagcagaggcagct	X70514
62974	gcgccactttgctttgggaagctga	X70514
62975	ctttgctttgggaagctgagagctc	X70514
62976	gccgacatcatttgccagacagaag	X70514
62977	atcatttgccagacagaagccaact	X70514
62978	tccaggtggacttcaacctgattgg	X70514
62979	gctcctggatcatctaccccaagca	X70514
62980	atactatctccacagaatgggcatt	AA060013
62981	tctccacagaatgggcattgtccac	AA060013
62982	aggctatgttgctccggaagttctc	AA060013
62983	ctatgttgctccggaagttctcgcc	AA060013
62984	tgctccggaagttctcgcccagaaa	AA060013
62985	tctcgcccagaaaccgtacagcaaa	AA060013
62986	cgcccagaaaccgtacagcaaagct	AA060013
62987	ccagaaaccgtacagcaaagctgtg	AA060013
62988	ggactgctggtccatcggggtgatc	AA060013
62989	gtccatcggggtgatcgcctatatc	AA060013
62990	ggtgatcgcctatatcttgctctgt	AA060013
62991	gatcgcctatatcttgctctgtggt	AA060013
62992	aatgggcattgtccacagggacctc	AA060013
62993	cctcaagccggagaatctcttatac	AA060013
62994	gaatctcttatactacagtcaagac	AA060013
62995	cttatactacagtcaagacgaggag	AA060013
62996	tgactttggcttgtcgaaaatggag	AA060013
62997	tgtgatgtccacggcctgcgggacc	AA060013
62998	ctgcgggaccccaggctatgttgct	AA060013
62999	cccaggctatgttgctccggaagtt	AA060013
63000	agcggctgaacagccacttttcaaa	AA146329
63001	tgaacagccacttttcaaatctcgt	AA146329
63002	gctctcttaacacggaagatgatga	AA146329
63003	ccaattcactcttaaacaagctaat	AA146329
63004	attcactcttaaacaagctaatccg	AA146329

SEQ ID NO	sequence	DBAxnID
105541	cgcagccctttggtgtgaaggaaag	L13290
105542	agttctacatcgacgtgagctactc	L13290
105543	acgatgcccccatgattgcctacga	L13290
105544	tcgcacacagagccttcttccacgg	L13290
105545	acagtgattccacggccgccattgc	L13290
105546	attccacggccgccattgctggctg	L13290
105547	ccaactacgagaagctcgaataccg	L13290
105548	gagctttgtattctctcgggtcaaa	L13290
105549	tgtattctctcgggtcaaaagaaga	L13290
105550	agtcaccatggcagtggggaaaagg	L13290
105551	tgctgcctgaagccaaaaagtacat	L13290
105552	ccaaaaagtacatcactcagtcagg	L13290
105553	agtacatcactcagtcaggctactt	L13290
105554	tcactcagtcaggctactttgtgaa	L13290
105555	agtcaggctactttgtgaaggagaa	L13290
105556	aggagaatcttcaacactggtccta	L13290
105557	atcttcaacactggtcctacttcga	L13290
105558	ggtttctggatgcctgcgaaaaagg	AA002883
105559	ttctggatgcctgcgaaaaaggccc	AA002883
105560	aaatctctttcatccgagctggaga	AA002883
105561	gtgctcttaaacaagccttggcaaa	AA002883
105562	ttaaacaagccttggcaaatggcac	AA002883
105563	ttattgagcctattatgtctgtgga	AA002883
105564	ttgagcctattatgtctgtggaagt	AA002883
105565	agcctattatgtctgtggaagttat	AA002883
105566	ttatagcccccaatgaattccaggg	AA002883
105567	tgttcgcagggattaaccggcggca	AA002883
105568	ggattaaccggcggcatggagtgat	AA002883
105569	ttaaccggcggcatggagtgattac	AA002883
105570	gccctctttctggtcacaagctttc	AA002883
105571	ctggtcacaagctttctgggctacg	AA002883
105572	gtcacaagctttctgggctacggtt	AA002883
105573	tttctgggctacggtttgttctgca	AA002883
105574	atggagcacaccacatggttgattc	AA002883
105575	gagcacaccacatggttgattcgaa	AA002883
105576	cacaccacatggttgattcgaatga	AA002883
105577	atgaaatctctttcatccgagctgg	AA002883
105578	ccagagatcgagcgcttcggggaac	W29543
105579	gagatcgagcgcttcggggaacatg	W29543
105580	cgtcttcaagtatgtgctgattcga	W29543
105581	gctgattcgagtccacttagcagag	W29543
105582	gattcgagtccacttagcagagcct	W29543
105583	agtccacttagcagagccttctggg	W29543
105584	agcagagccttctggggatccggcg	W29543
105585	agagccttctggggatccggcgaag	W29543
105586	tgagtaccacgcggacatctatgac	W29543
105587	gtaccacgcggacatctatgacaaa	W29543
105588	caaagtgtcaggcgagctgcaaagg	W29543
105589	agtgtcaggcgagctgcaaaggaat	W29543
105590	atcgagcgcttcggggaacatggcg	W29543
105591	ggacctcggtcagattcctgatgta	W29543
105592	cctcggtcagattcctgatgtagac	W29543
105593	cggtcagattcctgatgtagacatt	W29543
105594	gattcctgatgtagacattgattcg	W29543
105595	cattgattcggatggcgtcttcaag	W29543
105596	tgattcggatggcgtcttcaagtat	W29543
105597	ttcggatggcgtcttcaagtatgtg	W29543
105598	agttttggtaccactgatggtacag	D01034
105599	gaggacactcagttacaggtggcag	D01034
105600	ttttaaacactgctgttggtgattg	D01034
105601	agtgttcaagccacctgtacaattg	D01034
105602	caagccacctgtacaattggacttt	D01034
105603	ttaatctttcccacacaagccagtt	D01034
105604	ttgtgccagatacattccgccttcc	D01034
105605	gccttcccagtattgcaggactgaa	D01034
105606	tttctttcttcagagtctctgcaca	D01034
105607	tcttcagagtctctgcacaaaaacg	D01034
105608	gagtctctgcacaaaaacgcagctt	D01034

09/396,760

TABLE 1

SEQ ID NO	sequence	DBAxnID
20401	cctgcatcatccgcatcagtgtaga	U14103
20402	tcatccgcatcagtgtagaagacaa	U14103
20403	aagacaacaatggccacatgtacaa	U14103
20404	tgcaggtcatctcggaggacaaaga	U14103
20405	aactagtgatcccggactctgcaaa	U14103
20406	gctcggacagctgggattcagagaa	U17961
20407	acacctgcaccagaaacatacgaag	U17961
20408	ccagctaggccagtgaagggagcat	U17961
20409	tactgatttcttgtatcccaggatt	U17961
20410	gattcctgttgctttacccacaaca	U17961
20411	tcctgttgctttacccacaacagac	U17961
20412	tttacccacaacagacaagtaattg	U17961
20413	cttcctccattcttaactctgcatt	U17961
20414	cctccattcttaactctgcattctg	U17961
20415	ttcttaactctgcattctggcttct	U17961
20416	ttaactctgcattctggcttctgta	U17961
20417	cattctggcttctgtatgtagtatt	U17961
20418	tattacagccagagtcaaggggagt	U17961
20419	tacagccagagtcaaggggagtcag	U17961
20420	ctccaagattcttacgaagcctacg	U17961
20421	gattcttacgaagcctacggacaag	U17961
20422	tcttacgaagcctacggacaagatg	U17961
20423	accaggccatcactgaaggctcctc	U17961
20424	aaggctcctccagctaggccagtga	U17961
20425	cctccagctaggccagtgaagggag	U17961
20426	cactccacagcaggaagtgacctct	W65178
20427	ggaagtgacctctgcccctgcttgg	W65178
20428	ggaaccgcagctttcactgagacac	W65178
20429	gaaccgcagctttcactgagacact	W65178
20430	gcagctttcactgagacacttgaag	W65178
20431	cagctttcactgagacacttgaagt	W65178
20432	gctttcactgagacacttgaagtga	W65178
20433	ctttcactgagacacttgaagtgac	W65178
20434	ttcactgagacacttgaagtgacca	W65178
20435	tcactgagacacttgaagtgaccat	W65178
20436	cttgaagtgaccattcctccttggg	W65178
20437	ttgaagtgaccattcctccttgggg	W65178
20438	agtgacctctgcccctgcttggtag	W65178
20439	ctgcccctgcttggtagcgggaact	W65178
20440	tgcccctgcttggtagcgggaactg	W65178
20441	ctgcttggtagcgggaactggagtc	W65178
20442	tgcttggtagcgggaactggagtcc	W65178
20443	tcaatcacccagactggacagcagg	W65178
20444	aatcacccagactggacagcagggg	W65178
20445	cagggccagtgggccaggtgtcaac	L25885
20446	tcgtgttggctcctgctctgatgtt	L25885
20447	tggctcctgctctgatgttgttgtg	L25885
20448	tgttccttccaggattatccaccac	L25885
20449	accccactgatgaacaccctggctt	L25885
20450	tcctctccaccaatctgattcctaa	L25885
20451	atctgattcctaacaggggcttgtc	L25885
20452	ttcctaacaggggcttgtcctggtg	L25885
20453	gacacccttccttttctgtgagcgac	L25885
20454	gagcgaccagaggcccgatggagcc	L25885
20455	ctttccaagtgccaaagagcccaga	L25885
20456	aagtgccaaagagcccagaaggact	L25885
20457	tctaagaccctcaagtggaaacact	L25885
20458	ggatcatgcatcgaaggtgaagctg	L25885
20459	caatttgcaaccccagggacatgca	L25885
20460	gaagctgccgtggacagcaaaagac	L25885
20461	gacagcaaaagacccaggagctgaa	L25885
20462	tcaagtggccaaacatcgcctactc	L25885
20463	acatcgcctactcttcttcaaacac	L25885
20464	caaacaccggctacagtgcatgacc	L25885
20465	acagtgcatgaccgccgagtgacgt	L25885
20466	ttgggccttcacactgtcaggctgg	L25885
20467	gatgctgaccttgtgttactgagca	D14571
20468	ttgtacagctcacatgtttacactc	D14571

SEQ ID NO:	sequence	DBAxnID
63005	cactcttaaacaagctaatccgtca	AA146329
63006	acaagctaatccgtcagtccttaat	AA146329
63007	agctaatccgtcagtccttaataga	AA146329
63008	taatagaatccagccaccgagtgga	AA146329
63009	aatccagccaccgagtggaagtctt	AA146329
63010	tcttacagaaggatcccagctctcc	AA146329
63011	tacagaaggatcccagctctccact	AA146329
63012	gccacttttcaaatctcgtccatcc	AA146329
63013	acttttcaaatctcgtccatcccag	AA146329
63014	atctcgtccatcccaggaagaacct	AA146329
63015	tcgtccatcccaggaagaaccttcg	AA146329
63016	ggagtaccacagtcccaaacataga	AA146329
63017	ccacagtcccaaacatagacggctc	AA146329
63018	caaacatagacggctctcttaacac	AA146329
63019	acggctctcttaacacggaagatga	AA146329
63020	caatccggactctgtgtactgagta	X74760
63021	atatgactagggctccacgtactga	X74760
63022	tctgctcaaagcctcaactccaggc	X74760
63023	tcccagagcctggctcacctttag	X74760
63024	agcctggctcacctttagggcctg	X74760
63025	atgcattccacttctaattgtaaat	X74760
63026	tcttcctgttgttctcttggctcag	X74760
63027	tgttgttctcttggctcagcctgcc	X74760
63028	ggctcagcctgcctaatagaaatgt	X74760
63029	ttttgtaatatggcacctggtcaca	X74760
63030	aatatggcacctggtcacagtcctt	X74760
63031	gcacctggtcacagtcctttgtagc	X74760
63032	ctagggctccacgtactgagtatgt	X74760
63033	gtcacagtcctttgtagctgaattc	X74760
63034	ctccacgtactgagtatgtggccct	X74760
63035	agtatgtggccctcgtatgtaccaa	X74760
63036	tggccctcgtatgtaccaagtagcc	X74760
63037	agtagccagccttgggcacaccctc	X74760
63038	tcacttcactgcattccagataaga	X74760
63039	cactgcattccagataagacgtgta	X74760
63040	gtcttgtctgctcaaagcctcaact	X74760
63041	agccaccagctgcaggtgccagagc	Z11886
63042	tccccgcattccaacatctctgatt	Z11886
63043	ttcaggatgctggggcgaccaaagg	Z11886
63044	atgctggggcgaccaaaggagcttt	Z11886
63045	ttctatggcactaggggaaaaacat	Z11886
63046	ctagttctcagagccttgattttcc	Z11886
63047	gttctcagagccttgattttcctgg	Z11886
63048	ctcagagccttgattttcctggtca	Z11886
63049	gccttgattttcctggtcagggtga	Z11886
63050	ttgattttcctggtcagggtgaagt	Z11886
63051	ttccctgtgtgtctgtaaaatatga	Z11886
63052	ttattgattgcttctttccaaaatc	Z11886
63053	aacatctctgattggtccgagggca	Z11886
63054	tattgattgcttctttccaaaatcg	Z11886
63055	atctctgattggtccgagggcatct	Z11886
63056	atcacccacattccagaggcattta	Z11886
63057	acccacattccagaggcatttaaat	Z11886
63058	gatgcaggaccccagcttccgttcc	Z11886
63059	ggaagtcctttccagtgcttcagga	Z11886
63060	ttccagtgcttcaggatgctggggc	Z11886
63061	cagtgcttcaggatgctggggcgac	Z11886
63062	tttcttcaactcttgctgggttgat	X77241
63063	caactcttgctgggttgattcttaa	X77241
63064	catgggactgcagtcctgggagagt	X77241
63065	actgcagtcctgggagagtcgtgaa	X77241
63066	tcgtgaacacctggagacaggtagc	X77241
63067	gaacgctcagtcgcacccacttctg	X77241
63068	tcagtcgcacccacttctgtctgag	X77241
63069	gcacccacttctgtctgagtgattc	X77241
63070	cttttgcactgtgtattgtatgtaa	X77241
63071	tatacttctgactttaaaggaggat	X77241
63072	tatgtcttcctctatgatctaataa	X77241

SEQ ID NO:	sequence	DBAxnID
105609	ctgcacaaaaacgcagcttgtaaat	D01034
105610	ttacaggtggcagcatgaagtgaca	D01034
105611	agtgacactgtgtgtcctactgcag	D01034
105612	cctctgcactgaaatcaccctgcag	D01034
105613	cactgaaatcaccctgcagcactac	D01034
105614	aatcaccctgcagcactactgtgag	D01034
105615	cctgcagcactactgtgagttgctt	D01034
105616	tgctctgtgctgctacttgggcggc	D01034
105617	gtgctgctacttgggcggcactgcc	D01034
105618	gcccatgctcggccctacatggctt	W36455
105619	catgctcggccctacatggcttccg	W36455
105620	gtgctcagtgctgcacactgcatgg	W36455
105621	agtgctgcacactgcatggatggag	W36455
105622	gctgcacactgcatggatggagtga	W36455
105623	gcacactgcatggatggagtgacgg	W36455
105624	gatgacgactctgtgcaggtgctcc	W36455
105625	gacgactctgtgcaggtgctcctgg	W36455
105626	gactctgtgcaggtgctcctgggtg	W36455
105627	tctgtgcaggtgctcctgggtgccc	W36455
105628	accctacaagcgatggtatgatgtg	W36455
105629	ccctacaagcgatggtatgatgtgc	W36455
105630	cggccctacatggcttccgtgcaag	W36455
105631	ccctacatggcttccgtgcaagtga	W36455
105632	tacatggcttccgtgcaagtgaacg	W36455
105633	atggcttccgtgcaagtgaacggca	W36455
105634	caagtgaacggcacacacgtgtgcg	W36455
105635	gtgaacggcacacacgtgtgcggtg	W36455
105636	aacggcacacacgtgtgcggtggca	W36455
105637	ggcacacacgtgtgcggtggcaccc	W36455
105638	gtacctagctgtacacgtcctttat	J02623
105639	agctgtacacgtcctttattagaga	J02623
105640	ctgcgtgttgcctgactctgtacaa	J02623
105641	gtctagtctcaaagatcagttggtc	J02623
105642	tcagttggtctgaggagccggatgt	J02623
105643	gttgtgtccctggtctggaacatta	J02623
105644	gtgtccctggtctggaacattagtt	J02623
105645	tttaaggcaactgtggccaatattt	J02623
105646	atttatatcatgacatacaaatgga	J02623
105647	aaacggtatttgctcttgtgatatg	J02623
105648	tatttgctcttgtgatatgtggcac	J02623
105649	ttgctcttgtgatatgtggcacatt	J02623
105650	tgtacacgtcctttattagagatga	J02623
105651	acacgtcctttattagagatgaccg	J02623
105652	aagcagctgctgtttagctgacccc	J02623
105653	tgtaatcaccttgccttcctctcta	J02623
105654	tctagcattctgcaggagtgatgcc	J02623
105655	agcattctgcaggagtgatgcccac	J02623
105656	agccttgggcttctgcgtgttgcct	J02623
105657	cttctgcgtgttgcctgactctgta	J02623
105658	aagcgtctttacgcactacatcact	W09588
105659	agcgtctttacgcactacatcacta	W09588
105660	agccccttgcgcagtcactggatca	W09588
105661	gcccccttgcgcagtcactggatcac	W09588
105662	cccttgcgcagtcactggatcacga	W09588
105663	ccttgcgcagtcactggatcacgag	W09588
105664	cttgcgcagtcactggatcacgagc	W09588
105665	tgcgcagtcactggatcacgagctt	W09588
105666	gcgcagtcactggatcacgagcttc	W09588
105667	cgcagtcactggatcacgagcttcg	W09588
105668	cagtcactggatcacgagcttcgtt	W09588
105669	agtcactggatcacgagcttcgtta	W09588
105670	gcgtctttacgcactacatcactat	W09588
105671	gtctttacgcactacatcactatac	W09588
105672	tctttacgcactacatcactataca	W09588
105673	ctttacgcactacatcactatacag	W09588
105674	ttacgcactacatcactatacagcg	W09588
105675	tacgcactacatcactatacagcgc	W09588
105676	atgtacgacacagtaaatggagggc	W09588

TABLE 1

SEQ ID NO	sequence	DBAxnID
20469	tagcaaatgttccttactggttctg	D14571
20470	atgttccttactggttctgcactgc	D14571
20471	ggttctgcactgcttctgtctgtct	D14571
20472	tctgtcttaatgctggcgttaagat	D14571
20473	aatgacatcattgcatcatttttta	D14571
20474	tcatctccattaaaacttgccttaa	D14571
20475	aaacttgccttaagcttccagattg	D14571
20476	agcttccagattgctttgccgttag	D14571
20477	cagattgctttgccgttagctttac	D14571
20478	gctttgccgttagctttactgtata	D14571
20479	catgtttacactctcagtgccctga	D14571
20480	taacatctcggtggtacattttctc	D14571
20481	ggtacattttctctgttgcttctcg	D14571
20482	ttttctctgttgcttctcgccaaga	D14571
20483	cttctcgccaagagcttccagtccg	D14571
20484	gccaagagcttccagtccggcagtc	D14571
20485	agcttccagtccggcagtcagtaag	D14571
20486	cagtccggcagtcagtaagatcaca	D14571
20487	tgataaacacctcacgcctcactct	U24674
20488	tcactcttcacagtgcgcagacaga	U24674
20489	ttatcttctaagtggaacttctagc	U24674
20490	ttctagcctgcactctgatgtcatg	U24674
20491	cctgcactctgatgtcatgtgttcc	U24674
20492	tgtcatgtgttccctctgtctttca	U24674
20493	cctctgtctttcaaactctcaggtt	U24674
20494	tctttcaaactctcaggtttcctct	U24674
20495	tcaggtttcctctgggccactgctt	U24674
20496	ttcctctgggccactgcttttccct	U24674
20497	tttccctgggaagccttgctggaga	U24674
20498	acttattgctgattttaatgggttg	U24674
20499	gctttaaccatctgatatccatagt	U24674
20500	accatctgatatccatagtagacat	U24674
20501	tactatcctagttaacatagttacg	U24674
20502	agttacgttcagcacttgtctcatt	U24674
20503	cacttgtctcatttaatgtaaagat	U24674
20504	cacaatcccactgtgcgggtgctat	U24674
20505	ttgttgctcttacaaatcccttcag	U24674
20506	ctcttacaaatcccttcagaaatgt	U24674
20507	gcccgccagagacaagtgcgccggc	U74300
20508	cccgccagagacaagtgcgccggct	U74300
20509	cgagacctgcagacgcgaagcgcgc	U74300
20510	gagacctgcagacgcgaagcgcgcg	U74300
20511	agacctgcagacgcgaagcgcgcgc	U74300
20512	gacctgcagacgcgaagcgcgcgcg	U74300
20513	cctgcagacgcgaagcgcgcgcgtt	U74300
20514	cgcgttccgacgggctagcagccgg	U74300
20515	ttccgacgggctagcagccgggagc	U74300
20516	cgggtatgctgcgggtcctgcactg	U74300
20517	ggtatgctgcgggtcctgcactgag	U74300
20518	agagacaagtgcgccggcttcgcgc	U74300
20519	cgcccgtgggagacgacggactgca	U74300
20520	actgcaggacggacagacggacgga	U74300
20521	acggacgcacgcactgctggtagct	U74300
20522	gcacgcactgctggtagctgggccg	U74300
20523	cacgcactgctggtagctgggccga	U74300
20524	gccgagacctgcagacgcgaagcgc	U74300
20525	ccgagacctgcagacgcgaagcgcg	U74300
20526	ttcggagcttgcaccatcgtgtttt	L38847
20527	tcagatcttaccgtctatggattcg	L38847
20528	atttgtgccgtaattatgtaccatg	L38847
20529	ttaatctgctttagttccacatgac	L38847
20530	tgctttagttccacatgacagttaa	L38847
20531	agttccacatgacagttaagcccca	L38847
20532	acatgacagttaagccccagaaatg	L38847
20533	cagttaagccccagaaatgagatcc	L38847
20534	gagatccgagcagccacattccacg	L38847
20535	cgagcagccacattccacgtctgtt	L38847
20536	gccacattccacgtctgtttcaaaa	L38847
63073	ttcctctatgatctaataaacaaac	X77241
63074	ttcttaatcaggatccggaatatgc	X77241
63075	tttccttcttgatggcaggcattaa	X77241
63076	ccacacgactgtgaagggaagacat	X77241
63077	atcttctagcctagactaatgtctc	X77241
63078	agactaatgtctctgaagtgttgga	X77241
63079	tgttggactcttcagtgacatctct	X77241
63080	gaggtcagcatccttatagaaagaa	X77241
63081	atccttcatgggactgcagtcctgg	X77241
63082	ggaaagtgctcgcgctccaggcccg	AA060080
63083	gctcgcgctccaggcccgaaagaaa	AA060080
63084	gattctagggtctgacgatgacgag	AA060080
63085	tctagggtctgacgatgacgagcag	AA060080
63086	gtctgacgatgacgagcaggaagac	AA060080
63087	ttatcatcttgtgaaaattggagat	AA060080
63088	gacacttttccacagtgtggttatc	AA060080
63089	acacttttccacagtgtggttatca	AA060080
63090	acttttccacagtgtggttatcatg	AA060080
63091	cttttccacagtgtggttatcatgg	AA060080
63092	tttccacagtgtggttatcatggga	AA060080
63093	ttccacagtgtggttatcatgggat	AA060080
63094	agcctgaaactcagcaccgaggctc	AA060080
63095	gcctgaaactcagcaccgaggctct	AA060080
63096	tgaaactcagcaccgaggctctgca	AA060080
63097	aaactcagcaccgaggctctgcacc	AA060080
63098	actccgagagcgacatcccagagca	AA060080
63099	ctccgagagcgacatcccagagcag	AA060080
63100	ccgagagcgacatcccagagcagga	AA060080
63101	agattctagggtctgacgatgacga	AA060080
63102	gaagacagctctgctcgtcctcctt	AA060090
63103	ccttgtcttggctgtggcactagcc	AA060090
63104	gtcgccccgtcaatttgcaatttcg	AA060090
63105	gtgtcaaatctcaggcacttcggtt	AA060090
63106	cagtggtcccaggttcacacaatcc	AA060090
63107	acaatccgtcgagatgtccctatgc	AA060090
63108	atccgtcgagatgtccctatgcaac	AA060090
63109	cgtcgagatgtccctatgcaacaag	AA060090
63110	cgagatgtccctatgcaacaagagt	AA060090
63111	gatgtccctatgcaacaagagtctg	AA060090
63112	gtccctatgcaacaagagtctggtc	AA060090
63113	cctatgcaacaagagtctggtcagc	AA060090
63114	tgtcttggctgtggcactagcccag	AA060090
63115	ggcactagcccagcctgggcacttc	AA060090
63116	actagcccagcctgggcacttcgat	AA060090
63117	gtgtgcaccatcagtgccaactgta	AA060090
63118	tgcaccatcagtgccaactgtagaa	AA060090
63119	accatcagtgccaactgtagaatcc	AA060090
63120	gccaactgtagaatcccacaggtcg	AA060090
63121	ccacaggtcgccccgtcaatttgca	AA060090
63122	cttgtgacatatctcacatggtgac	D63819
63123	atgtttgtctagttgctggctttag	D63819
63124	ttctaaggtttgcagcatggcgctc	D63819
63125	ggtttgcagcatggcgctcatgacg	D63819
63126	cagcatggcgctcatgacgtcatag	D63819
63127	ggcgctcatgacgtcataggtaatg	D63819
63128	ttctacatgccctgacttgactgct	D63819
63129	atgccctgacttgactgctttactt	D63819
63130	gactgctttacttagctgcacaggc	D63819
63131	tttacttagctgcacaggccttgcg	D63819
63132	tagctgcacaggccttgcgcttccc	D63819
63133	tttctaggtcacttttttacatgtgc	D63819
63134	tcgtagcttcttagtggaggacttc	D63819
63135	ttttacatgtgctgctctgtcagtg	D63819
63136	ttggtcctggtgcctctggcatccc	D63819
63137	cactactttaatcttgcatttgatc	D63819
63138	tttaatcttgcatttgatccataca	D63819
63139	tttgatccatacagctcttttggat	D63819
63140	atcctatcaaacctggatccacgag	D63819
105677	ctttgggaatgagcccctgcgcag	W09588
105678	gtgccccaaatggccaaatccggat	W09590
105679	tgccccaaatggccaaatccggata	W09590
105680	gcccatgattgttcacgatgagcac	W09590
105681	cccatgattgttcacgatgagcacg	W09590
105682	gattgttcacgatgagcacgggggga	W09590
105683	ttttgtgctcttacaacccttatgc	W09590
105684	ttgtgctcttacaacccttatgcac	W09590
105685	ctcttacaacccttatgcaccaact	W09590
105686	tcttacaacccttatgcaccaactc	W09590
105687	cttacaacccttatgcaccaactcg	W09590
105688	ttacaacccttatgcaccaactcgg	W09590
105689	tacaacccttatgcaccaactcgga	W09590
105690	aatggccaaatccggatagtcccat	W09590
105691	atggccaaatccggatagtcccatt	W09590
105692	tggccaaatccggatagtcccatta	W09590
105693	ggccaaatccggatagtcccattag	W09590
105694	gccaaatccggatagtcccattagt	W09590
105695	tgggcccatgattgttcacgatgag	W09590
105696	gggcccatgattgttcacgatgagc	W09590
105697	ggcccatgattgttcacgatgagca	W09590
105698	aatgactacacttagacactttgta	W63809
105699	actacacttagacactttgtatctg	W63809
105700	tgaacttttcacatatcagagtaac	W63809
105701	cttttcacatatcagagtaacatat	W63809
105702	atgaattgcataacccttggtaagg	W63809
105703	attgcataacccttggtaaggtcag	W63809
105704	tgcataacccttggtaaggtcagag	W63809
105705	gtatatccttttacttctacacat	W63809
105706	atatccttttacttctacacattg	W63809
105707	tttttacttctacacattgtcctgg	W63809
105708	tttacttctacacattgtcctggcc	W63809
105709	cttctacacattgtcctggccatag	W63809
105710	tacacttagacactttgtatctgga	W63809
105711	gacactttgtatctggaccttgaac	W63809
105712	cactttgtatctggaccttgaactt	W63809
105713	ggaacattgacttcatcggatgatt	W63809
105714	aacattgacttcatcggatgattat	W63809
105715	cattgacttcatcggatgattataa	W63809
105716	atataaccgtctgggatagatgaac	W63809
105717	gatgaacttttcacatatcagagta	W63809
105718	agttgtcctcaagttcgtcctcttg	X06917
105719	actgtgtcagcagaccacattacag	X06917
105720	ctgcaaacgtccgcctcagcctatg	X06917
105721	ctgcccttgatttcagagtcctctt	X06917
105722	tcttcatccatcctggctgcacagc	X06917
105723	tccatcctggctgcacagcctgtct	X06917
105724	tcttcacatgagtcagacgtgcagg	X06917
105725	catgagtcagacgtgcagggtagga	X06917
105726	ggaaagataaccaccatctgctcta	X06917
105727	ataaccaccatctgctctaatcatg	X06917
105728	accatctgctctaatcatgtagacg	X06917
105729	gtagacgtactgccgcctggtttct	X06917
105730	aaccaacaggtctgttgccacttca	X06917
105731	caggtctgttgccacttcaacaggg	X06917
105732	tgttgccacttcaacagggacagta	X06917
105733	ttgtcattgctgttctagagcctag	X06917
105734	ttgctgttctagagcctagagtctc	X06917
105735	ttctagagcctagagtctcatcccg	X06917
105736	gagtctcatcccgttctactgcaaa	X06917
105737	catcccgttctactgcaaacgtccg	X06917
105738	cagctccactgctgtttctgagcac	W09614
105739	cactgctgtttctgagcactataac	W09614
105740	ggaccatcttctcctgtttgacaga	W09614
105741	tcttctcctgtttgacagaccaggt	W09614
105742	ctagatcacgcttatgtcacggtgg	W09614
105743	ctggtcaccaataccatcaattcag	W09614
105744	accaataccatcaattcagaggtca	W09614

TABLE 1

SEQ ID NO	sequence	DBAxnID
20537	ttccacgtctgtttcaaaatgaatt	L38847
20538	atggcttttcttacccagattgtgt	L38847
20539	tttcttacccagattgtgtacatag	L38847
20540	atttagctacagcttttaacggcag	L38847
20541	ctacagcttttaacggcagtgtcat	L38847
20542	acggcagtgtcatccccctttgcact	L38847
20543	tccccttgcactgtaatgaggaaa	L38847
20544	gttgccaaattgctgcatatttgtg	L38847
20545	aaattgctgcatatttgtgccgtaa	L38847
20546	gcacgacacagtcagcttcaaacac	
20547	cacgacacagtcagcttcaaacaca	
20548	aaacccggataatgcagtgaatgtg	
20549	aatcaatctaataaagccatttgtt	
20550	atcaatctaataaagccatttgtta	
20551	acgacacagtcagcttcaaacacat	
20552	cgacacagtcagcttcaaacacata	
20553	gacacagtcagcttcaaacacataa	
20554	acacagtcagcttcaaacacataaa	
20555	cacagtcagcttcaaacacataaaa	
20556	acagtcagcttcaaacacataaaag	
20557	cagtcagcttcaaacacataaaaga	
20558	gtcagcttcaaacacataaaagaat	
20559	gcacgacacagtcagcttcaaacac	
20560	cacgacacagtcagcttcaaacaca	
20561	gtcagcttcaaacacataaaagaat	
20562	tcagcttcaaacacataaaagaata	
20563	cagcttcaaacacataaaagaatac	
20564	agcttcaaacacataaaagaataca	
20565	gaaaaacccggataatgcagtgaat	
20566	aaaaacccggataatgcagtgaatg	
20567	aaaacccggataatgcagtgaatgt	
20568	aaacccggataatgcagtgaatgtg	
20569	aatcaatctaataaagccatttgtt	
20570	atcaatctaataaagccatttgtta	
20571	acgacacagtcagcttcaaacacat	
20572	cgacacagtcagcttcaaacacata	
20573	gacacagtcagcttcaaacacataa	
20574	acacagtcagcttcaaacacataaa	
20575	cacagtcagcttcaaacacataaaa	
20576	acagtcagcttcaaacacataaaag	
20577	cagtcagcttcaaacacataaaaga	
20578	agtcagcttcaaacacataaaagaa	
20579	gtcatcgccctgcgttagtattgca	W64264
20580	catcgccctgcgttagtattgcaca	W64264
20581	tgtagacgacaccgcaggaaggtgc	W64264
20582	tagacgacaccgcaggaaggtgcag	W64264
20583	cgacaccgcaggaaggtgcagctgc	W64264
20584	tgcagctgcagctgctacggatgaa	W64264
20585	gctgcagctgctacggatgaagacg	W64264
20586	tgcagctgctacggatgaagacgat	W64264
20587	acgatattcagctcattggatctga	W64264
20588	gatattcagctcattggatctgatg	W64264
20589	tattcagctcattggatctgatgat	W64264
20590	cagctcattggatctgatgatgacg	W64264
20591	cgttagtattgcacatcaggtcgta	W64264
20592	agtattgcacatcaggtcgtatgag	W64264
20593	tattgcacatcaggtcgtatgagaa	W64264
20594	gcacatcaggtcgtatgagaacgag	W64264
20595	taagtattgccctaggagtgtagac	W64264
20596	tattgccctaggagtgtagacgaca	W64264
20597	ttgccctaggagtgtagacgacacc	W64264
20598	agtgtagacgacaccgcaggaaggt	W64264
20599	atttcctcactgcctggtaaaatca	Z48757
20600	tcactgcctggtaaaatcaatcaca	Z48757
20601	tattgcctccggtgctgagaaatag	Z48757
20602	ttctttggcatgcaggcctatttta	Z48757
20603	gcttcaaaacagccaatcagcacct	Z48757
20604	ccaatcagcacctgaggctaggaat	Z48757

SEQ ID NO:	sequence	DBAxnID
63141	tcttcttttcttgcctcctgcaata	D63819
63142	tgcaatagcttctctgtcttgtaca	D63819
63143	tcccctaggctttcagcttcaggca	X78709
63144	cctaggctttcagcttcaggcagct	X78709
63145	ctgaccccaatcttggtcagctctg	X78709
63146	accccaatcttggtcagctctggag	X78709
63147	atcttggtcagctctggagtactgc	X78709
63148	ttggtcagctctggagtactgcctg	X78709
63149	gtcagctctggagtactgcctgccc	X78709
63150	ttcctaaccgagcagtagggataga	X78709
63151	ctaaccgagcagtagggatagaaag	X78709
63152	aaagcgtgagcctgggagtgctttt	X78709
63153	aatttatctctgtgacctgccaggg	X78709
63154	ttatctctgtgacctgccagggaga	X78709
63155	aggctttcagcttcaggcagcttct	X78709
63156	ggcagcttcttcacagcctgttcag	X78709
63157	ttcttcacagcctgttcagcctggg	X78709
63158	ttcacagcctgttcagcctgggctc	X78709
63159	acagcctgttcagcctgggctcctg	X78709
63160	tcagcctgggctcctggaggacagc	X78709
63161	caagatagccaggtggttggttcca	X78709
63162	gttggttccaggaccacagtgtctt	X78709
63163	cgtgcactactgtcatcagaagaac	AA060127
63164	gcactactgtcatcagaagaacatt	AA060127
63165	gctgttccagggcaagaagtatgat	AA060127
63166	gtatgatgggccagaggtggacatc	AA060127
63167	tgtcatcctgtacacgctggtcagc	AA060127
63168	catcctgtacacgctggtcagcggc	AA060127
63169	cctgtacacgctggtcagcggctcc	AA060127
63170	gtacacgctggtcagcggctccctg	AA060127
63171	gcccttcgatgggcacaacctcaag	AA060127
63172	ccttcgatgggcacaacctcaagga	AA060127
63173	cttcgatgggcacaacctcaaggag	AA060127
63174	acaacctcaaggagctgcgggacgt	AA060127
63175	ggctgaaaacctgttgctggatgcc	AA060127
63176	caacctcaaggagctgcgggacgta	AA060127
63177	tgaaaacctgttgctggatgccgag	AA060127
63178	tgccgaggccaacatcaaaatcgcc	AA060127
63179	ggccaacatcaaaatcgccgacttc	AA060127
63180	cagcaatgagttcacgctgggctcc	AA060127
63181	caatgagttcacgctgggctccaag	AA060127
63182	caagctggacaccttctgtgggagc	AA060127
63183	agagctgttccagggcaagaagtat	AA060127
63184	tatcgagaatgtctccttcggttct	AA060167
63185	atcgagaatgtctccttcggttctg	AA060167
63186	ttctggtggcgctttgctacagaag	AA060167
63187	tctggtggcgctttgctacagaagt	AA060167
63188	tggcgctttgctacagaagttaacc	AA060167
63189	ttaacccgagacctcttgaattgct	AA060167
63190	taacccgagacctcttgaattgctc	AA060167
63191	acccgagacctcttgaattgctcct	AA060167
63192	cccgagacctcttgaattgctcctt	AA060167
63193	ccgagacctcttgaattgctccttc	AA060167
63194	tcgagaatgtctccttcggttctgg	AA060167
63195	cgagaatgtctccttcggttctggt	AA060167
63196	gagaatgtctccttcggttctggtg	AA060167
63197	ttcggttctggtggcgctttgctac	AA060167
63198	tcggttctggtggcgctttgctaca	AA060167
63199	cggttctggtggcgctttgctacag	AA060167
63200	ggttctggtggcgctttgctacaga	AA060167
63201	gttctggtggcgctttgctacagaa	AA060167
63202	gaccgacaagtcctcagccattgac	X53257
63203	caagtcctcagccattgacattcgg	X53257
63204	aacctatgtccgagcactgacttca	X53257
63205	tgtccgagcactgacttcagaaaac	X53257
63206	caacaaactcgtaggctggcgctgg	X53257
63207	actcgtaggctggcgctggatacga	X53257
63208	aggctggcgctggatacgaatagac	X53257

SEQ ID NO	sequence	DBAxnID
105745	accatcaattcagaggtcactcagg	W09614
105746	aattcagaggtcactcaggctctta	W09614
105747	actcaggctcttaggcacactcaca	W09614
105748	gctcttaggcacactcacaaaatgg	W09614
105749	aggcacactcacaaaatggagaaat	W09614
105750	tgtttctgagcactataactccatc	W09614
105751	caggtttgacacggttcggccaatg	W09614
105752	tgagcactataactccatcaagtcc	W09614
105753	ctccatcaagtcctacagtgctcat	W09614
105754	caagtcctacagtgctcatcagatt	W09614
105755	ctacagtgctcatcagattgtcgac	W09614
105756	tgctcatcagattgtcgacttcgag	W09614
105757	tgtcgacttcgaggaccatcttctc	W09614
105758	cttcgaggaccatcttctcctgttt	W09614
105759	aaatcaagcagggcctgggcctcaa	M31690
105760	gcctgggcctcaaattcgcagagct	M31690
105761	tcaatatcaactcgctcaggctgaa	M31690
105762	tcaactcgctcaggctgaaggagta	M31690
105763	aggagtaccatcgccttcagagcaa	M31690
105764	accatcgccttcagagcaaggtcac	M31690
105765	aggtcactgccaaatagaccctgac	M31690
105766	ctgccaaatagaccctgacaaagac	M31690
105767	aatagaccctgacaaagacggagcg	M31690
105768	tctgcagctctcccaggcttcagca	M31690
105769	ccaggcttcagcattaattgttgtg	M31690
105770	tggtcccctatagcctacaaaagtg	M31690
105771	gcctcaaattcgcagagctcgtata	M31690
105772	gtttctggcacagccctgaatgtga	M31690
105773	aatttgttcgccactgtatccagaa	M31690
105774	cactctacaatgaagagctggtgag	M31690
105775	acgtgcagggcgactatgagcccat	M31690
105776	actatgagcccatcgacgccactgg	M31690
105777	ccactggcttcatcaatatcaactc	M31690
105778	gcttcatcaatatcaactcgctcag	M31690
105779	accatgtcctggtctccgatcctac	AA106931
105780	ctgcttctgctgttcccactcgagg	AA106931
105781	cacctgtcagagtcagcctgtatta	AA106931
105782	tcagagtcagcctgtattatgagtc	AA106931
105783	gagtcagcctgtattatgagtccct	AA106931
105784	tgtattatgagtccctgtgtggagc	AA106931
105785	attatgagtccctgtgtggagcttg	AA106931
105786	gggatttgttcccaacctggctgat	AA106931
105787	atttgttcccaacctggctgatggt	AA106931
105788	caacctggctgatggtgatggaaat	AA106931
105789	aaatcatgaacatcaccctggtgcc	AA106931
105790	tcatgaacatcaccctggtgcccta	AA106931
105791	ctgctgttcccactcgaggttccca	AA106931
105792	tgaacatcaccctggtgccctacgg	AA106931
105793	ttcccactcgaggttcccagagcag	AA106931
105794	ctcgaggttcccagagcagccactg	AA106931
105795	gaggttcccagagcagccactgcgt	AA106931
105796	ctttcgcaagcatcctccgaagcac	AA106931
105797	gaagcacaaccacctgcaaggtcca	AA106931
105798	gcacaaccacctgcaaggtccacga	AA106931
105799	caaccacctgcaaggtccacgatgt	AA106931
105800	atgaataccacacagatctgtggag	X04836
105801	accacacagatctgtggagctagtt	X04836
105802	tggctgtgccttccatccaggaggt	X04836
105803	tgccttccatccaggaggtcagggg	X04836
105804	ttgatctgtttctcatagatccaca	X04836
105805	tgtttctcatagatccacagcctcc	X04836
105806	ctctgcctctgtcgtttgcctgctt	X04836
105807	ctctgtcgtttgcctgcttcagcac	X04836
105808	tcttcccagctggcctcttctagaa	X04836
105809	cagctggcctcttctagaaacatcc	X04836
105810	ccacttctcttcattattcacttct	X04836
105811	tgcttcctgagctgacagaaaaata	X04836
105812	gctagttccaggccctcggtataca	X04836

TABLE 1

SEQ ID NO	sequence	DBAxnID
20605	atgaactgtagcctttgtctgttaa	Z48757
20606	ctttgtctgttaagtctggatgctt	Z48757
20607	agtctggatgcttttcagtatctta	Z48757
20608	tccctgttttcttaggtaatgtgtg	Z48757
20609	aatgttctgcatcactggatggtta	Z48757
20610	ctgcatcactggatggttagcaaga	Z48757
20611	agaactcctcacatttctatttatt	Z48757
20612	aatgcccatcaagagaaatcaacag	Z48757
20613	agtgtttactcagttactgttgtgg	Z48757
20614	tactcagttactgttgtggcatttt	Z48757
20615	tcctgtttactattagactggttat	Z48757
20616	tggttattcattattcctcaaattg	Z48757
20617	attcctcaaattgctgaatattgcc	Z48757
20618	gctgaatattgcctccggtgctgag	Z48757
20619	tgaacatcagacaattcctcattgg	W64323
20620	aacatcagacaattcctcattggat	W64323
20621	ctcctggctgtgggaaaacctatgg	W64323
20622	gaatgcaggcacttcatctccatca	W64323
20623	atgcaggcacttcatctccatcaag	W64323
20624	gcaggcacttcatctccatcaaggg	W64323
20625	gccccctgtgtatcttctgatgagt	W64323
20626	cccctgtgtatcttctgatgagtta	W64323
20627	cctgtgtatcttctgatgagttaga	W64323
20628	tgtgtatcttctgatgagttagatt	W64323
20629	tgtatcttctgatgagttagattca	W64323
20630	gccaaggctcgaggtggtatattgg	W64323
20631	tcagacaattcctcattggatgatc	W64323
20632	agacaattcctcattggatgatctc	W64323
20633	acaattcctcattggatgatctcaa	W64323
20634	aattcctcattggatgatctcaaag	W64323
20635	tgatctcaaagggtcttttcatgac	W64323
20636	gggtcttttcatgactcctggctgt	W64323
20637	atgactcctggctgtgggaaaacct	W64323
20638	gactcctggctgtgggaaaacctat	W64323
20639	caggaggacccttgccactggccaa	W64349
20640	aggacccttgccactggccaagagg	W64349
20641	gatttgcctgcgatggtaatgtagt	W64349
20642	agttcctgatagagattgggctgga	W64349
20643	atcagctgaagggttcatggtttta	W64349
20644	gttttaagtgcctgtgggtcctgtg	W64349
20645	ttttaagtgcctgtgggtcctgtga	W64349
20646	tgcctgtgggtcctgtgagctttaa	W64349
20647	ggtcctgtgagctttaagtgagggt	W64349
20648	ttgccactggccaagaggtcgatgg	W64349
20649	tgccactggccaagaggtcgatggt	W64349
20650	gccactggccaagaggtcgatggtg	W64349
20651	ccactggccaagaggtcgatggtga	W64349
20652	cactggccaagaggtcgatggtgat	W64349
20653	actggccaagaggtcgatggtgatt	W64349
20654	tggccaagaggtcgatggtgattac	W64349
20655	agatttgcctgcgatggtaatgtag	W64349
20656	gcgcctgtctactctagtggaacat	W64353
20657	gtctactctagtggaacataggcgc	W64353
20658	cacgccttccagtgcacccagtgtg	W64353
20659	tttcctgcgacatctgcgcacgcac	W64353
20660	gcgacatctgcgcacgcactctcag	W64353
20661	catctgcgcacgcactctcaggaga	W64353
20662	tctgcgcacgcactctcaggagaag	W64353
20663	cgcactctcaggagaagcgctttag	W64353
20664	cactctcaggagaagcgctttagct	W64353
20665	agaagcgctttagctgtggccagtg	W64353
20666	aagcgctttagctgtggccagtgtg	W64353
20667	tttagctgtggccagtgtggcaaga	W64353
20668	aacataggcgcacacacacgggtga	W64353
20669	tgagaagccatttccatgtacccag	W64353
20670	agtgcaccagagtgtgcactctggc	W64353
20671	agagtgtgcactctggcgagcacgc	W64353
20672	agtgtgcactctggcgagcacgcct	W64353

SEQ ID NO:	sequence	DBAxnID
63209	aatagacacttcctgtgtgtgtgcc	X53257
63210	aacttcagcaaccccttacagtatat	X53257
63211	agcaaccccttacagtatataagctt	X53257
63212	ccatctgttaaccttgttttgtgat	X53257
63213	ttgtgattgggctctcgggaaccct	X53257
63214	ctcagccattgacattcggggacac	X53257
63215	cattgacattcggggacaccaggtc	X53257
63216	cggtaactctcctgtgaaacaatat	X53257
63217	tgacaaacactggaactctcagtgc	X53257
63218	acactggaactctcagtgcaaaact	X53257
63219	gaactctcagtgcaaaacttcgcaa	X53257
63220	tcagtgcaaaacttcgcaaacctat	X53257
63221	ttcgcaaacctatgtccgagcactg	X53257
63222	tagcctgaggcctgcactgaacagc	AA060187
63223	cctgaggcctgcactgaacagccca	AA060187
63224	cttggacttcagtgaggtagaacta	AA060187
63225	actagagcctattgaggtggaagac	AA060187
63226	ggcccgtagaagccgcttctccaag	AA060187
63227	ccgtagaagccgcttctccaagtct	AA060187
63228	aagccgcttctccaagtctgctgat	AA060187
63229	ccgcttctccaagtctgctgatgag	AA060187
63230	cttctccaagtctgctgatgagaga	AA060187
63231	ctccaagtctgctgatgagagacag	AA060187
63232	catgttagttcagcgcaaggatgac	AA060187
63233	cctcctgcagcaggctcgaaagcgg	AA060187
63234	gcctgcactgaacagcccagtggag	AA060187
63235	agaagcttctgtccagacggagcgt	AA060187
63236	tgtccagacggagcgtgtaccactg	AA060187
63237	gcgtgtaccactggacctcagtcct	AA060187
63238	tgtaccactggacctcagtcctcgc	AA060187
63239	actggacctcagtcctcgcctagag	AA060187
63240	tcgcctagaggagaccttggacttc	AA060187
63241	ggagaccttggacttcagtgaggta	AA060187
63242	tcagcaagagctccagcctggctaa	AA060190
63243	agcaagagctccagcctggctaacc	AA060190
63244	acaagtgtgcgactgcgggaagtgc	AA060190
63245	caagtgtgcgactgcgggaagtgct	AA060190
63246	agtgtgcgactgcgggaagtgcttc	AA060190
63247	gtgtgcgactgcgggaagtgcttca	AA060190
63248	gaagtgcttcagcgagcgttccaag	AA060190
63249	aagtgcttcagcgagcgttccaagc	AA060190
63250	gtgcttcagcgagcgttccaagctc	AA060190
63251	gtgtggcaagttcttccgagaccgc	AA060190
63252	ggcaagttcttccgagaccgctcca	AA060190
63253	aagccgtacaagtgcagagagtgcg	AA060190
63254	aagagctccagcctggctaaccacc	AA060190
63255	agagctccagcctggctaaccaccg	AA060190
63256	tccagcctggctaaccaccgacgga	AA060190
63257	actcacaccggcgagaagcgcacaa	AA060190
63258	acaccggcgagaagcgcacaagtgt	AA060190
63259	aagcgcacaagtgtgcgactgcggg	AA060190
63260	agcgcacaagtgtgcgactgcggga	AA060190
63261	gcacaagtgtgcgactgcgggaagt	AA060190
63262	ttatcaaagtgccccagaacccaca	X07699
63263	tcaaagtgccccagaacccacatgg	X07699
63264	ttgtcaaaggtctgtctgaggatac	X07699
63265	tcaaaggtctgtctgaggataccac	X07699
63266	agggctctgttcgtgcaagaatagt	X07699
63267	gctctgttcgtgcaagaatagtcac	X07699
63268	gaatagtcactgatcgggaaactgg	X07699
63269	atgccaaagctgccaaggaggccat	X07699
63270	ccaaagctgccaaggaggccatgga	X07699
63271	aagctgccaaggaggccatggaaga	X07699
63272	gagacttcaagccacaaggaaagaa	X07699
63273	cttcaagccacaaggaaagaagacg	X07699
63274	aagtgccccagaacccacatggcaa	X07699
63275	cacatggcaaacctaaagggtatgc	X07699
63276	aatttgcttcatttgaagatgctaa	X07699

SEQ ID NO	sequence	DBAxnID
105813	ccctccttgatcactgctgttctca	X04836
105814	cctagttctcttagagtgaggctgg	X04836
105815	tctcttagagtgaggctgggagaga	X04836
105816	agagacctgccgcagtgtgtgcaga	X04836
105817	gtgcagagcctgggaagtggaccat	X04836
105818	ggaccatgctggggtcctttatgga	X04836
105819	tgctggggtcctttatggagagagc	X04836
105820	tcctcaacccacgagttcacctggt	W09664
105821	acgcagcctgcatcgcatacattcg	W09664
105822	cagaagagacgcgcgtgtggctacg	W09664
105823	aagagacgcgcgtgtggctacgcgt	W09664
105824	tacgcgtcgatgggaagtggcagaa	W09664
105825	ccacagtacccatcaactaattgtc	W09664
105826	cagtacccatcaactaattgtcaac	W09664
105827	tacccatcaactaattgtcaacagt	W09664
105828	ccatcaactaattgtcaacagtgcc	W09664
105829	tcaactaattgtcaacagtgccact	W09664
105830	aattgtcaacagtgccacttcttca	W09664
105831	caacagtgccacttcttcattctgt	W09664
105832	cagcctgcatcgcatacattcggct	W09664
105833	acagtgccacttcttcattctgtcc	W09664
105834	cctgcatcgcatacattcggctcac	W09664
105835	ttcggctcacacagtacatggacgg	W09664
105836	ggctcacacagtacatggacggaag	W09664
105837	agtacatggacggaagcgggatgcc	W09664
105838	tgccaaagaccatgcagtcagaaga	W09664
105839	caaagaccatgcagtcagaagagac	W09664
105840	agaccatgcagtcagaagagacgcg	W09664
105841	tgacctgcaataccagcgtcatgca	X02339
105842	gcaataccagcgtcatgcatctaga	X02339
105843	tcatcttcattgacctcatcgcaac	X02339
105844	tcattgacctcatcgcaactctgct	X02339
105845	ctctgctcctggctttgggcgtcta	X02339
105846	ctttgggcgtctactgctttgcagg	X02339
105847	ttcaagcactgctgaagaatgagca	X02339
105848	agctgtatcagcctcttcgagatcg	X02339
105849	atcagcctcttcgagatcgtgaaga	X02339
105850	ctcttcgagatcgtgaagataccca	X02339
105851	gtttctcaaagtgccatagcaacgg	X02339
105852	tcccctgtgatcaaccaataaagac	X02339
105853	ccagcgtcatgcatctagatggaac	X02339
105854	tggacccacgagggatatatctgtg	X02339
105855	ctgtgcaagtccattaccgaatgtg	X02339
105856	aagtccattaccgaatgtgccagaa	X02339
105857	attaccgaatgtgccagaactgtgt	X02339
105858	gaatgtgccagaactgtgtggagct	X02339
105859	tagactcgggcaccatggctggtgt	X02339
105860	ctggtgtcatcttcattgacctcat	X02339
105861	tgtcgctccctttcgctgatgcaag	W30651
105862	gtcgctccctttcgctgatgcaaga	W30651
105863	tttcgctgatgcaagagcctagtgc	W30651
105864	ttcgctgatgcaagagcctagtgcg	W30651
105865	aagagcctagtgcggtgctgtgaga	W30651
105866	gcctagtgcggtgctgtgagaagta	W30651
105867	cctagtgcggtgctgtgagaagtat	W30651
105868	ctagtgcggtgctgtgagaagtatc	W30651
105869	tagtgcggtgctgtgagaagtatcg	W30651
105870	tcgctccctttcgctgatgcaagag	W30651
105871	cgctccctttcgctgatgcaagagc	W30651
105872	gctccctttcgctgatgcaagagcc	W30651
105873	ctccctttcgctgatgcaagagcct	W30651
105874	tcccttcgctgatgcaagagccta	W30651
105875	cccttcgctgatgcaagagcctag	W30651
105876	cctttcgctgatgcaagagcctagt	W30651
105877	ctttcgctgatgcaagagcctagtg	W30651
105878	acggatggacactcttcctgactgc	M80251
105879	tcttcctgactgcacagcctctgct	M80251
105880	acccagagtccggctgccactaagg	M80251

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
20673	tgcactctggcgagcacgccttcca	W64353	63277	gaacaatcaggctggagttgcaagg	X07699	105881	atttctgtcctgtgatcatttgccc	M80251
20674	ctctggcgagcacgccttccagtgc	W64353	63278	caatcaggctggagttgcaaggatc	X07699	105882	gaactatgggtccacatcagggtaa	M80251
20675	ctggcgagcacgccttccagtgcac	W64353	63279	cgagaagtcaaccatccaaaactct	X07699	105883	tgggtccacatcagggtaacactgg	M80251
20676	tacccggtcagcagggattggtgtc	W64294	63280	gaagtcaaccatccaaaactctgtt	X07699	105884	agggtaacactggtcaccctggcat	M80251
20677	cccggtcagcagggattggtgtcct	W64294	63281	gtcaaccatccaaaactctgtttgt	X07699	105885	gtcaccctggcatgacacatctcca	M80251
20678	gtgccctgaaggggttccactgctg	W64294	63282	ttgctctcatgatgtgtgatgacag	U00932	105886	ctggcatgacacatctccagttcgt	M80251
20679	aaggggttccactgctgctttgcac	W64294	63283	ggatctccatgcaagagagacgcaa	U00932	105887	atctccagttcgtgcttctgagacc	M80251
20680	ttccactgctgctttgcactgtggt	W64294	63284	tcatgatcatcatgcgagaccacac	U00932	105888	agttcgtgcttctgagaccacagtc	M80251
20681	ccactgctgctttgcactgtggtag	W64294	63285	accacacttatgccaagtgccagaa	U00932	105889	tgcttctgagaccacagtccctatg	M80251
20682	actgctgctttgcactgtggtagtg	W64294	63286	cttatgccaagtgccagaacgctct	U00932	105890	tgactgcacagcctctgctggccag	M80251
20683	tgctgctttgcactgtggtagtgaa	W64294	63287	ccaagtgccagaacgctcttcagca	U00932	105891	tggccagcatgcacggccacttcca	M80251
20684	gctttgcactgtggtagtgaatatg	W64294	63288	gcattctcagtgtgattcccctgca	U00932	105892	acggccacttccatcatggcccaga	M80251
20685	tagtgaatatgcccaactttggagc	W64294	63289	tggctttccacctggctgtgctgag	U00932	105893	atcatggcccagagctgacaccagg	M80251
20686	gtgaatatgcccaactttggagcgg	W64294	63290	tccacctggctgtgctgagaggcta	U00932	105894	accctcacgtgagcgcaatcctatc	M80251
20687	atatgcccaactttggagcggtatt	W64294	63291	ttgattttccacggaatcttgccaa	U00932	105895	acgtgagcgcaatcctatcggagct	M80251
20688	gtactgcttcacctacctgggcagc	W64294	63292	ttccacggaatcttgccaaatctgt	U00932	105896	gcgcaatcctatcggagctgtgggg	M80251
20689	tatgcccaactttggagcggtattt	W64294	63293	ggaatcttgccaaatctgtgactgt	U00932	105897	tcctatcggagctgtggggttaaca	M80251
20690	actgcttcacctacctgggcagctt	W64294	63294	tcatgctcggactgaagcgactgcc	U00932	105898	tctggtaggtcccacgttcagacaa	AA030483
20691	cttcacctacctgggcagcttcctg	W64294	63295	tgccaaatctgtgactgtagagtga	U00932	105899	tggtaggtcccacgttcagacaaga	AA030483
20692	gcagcttcctgggcatcgtcctgtg	W64294	63296	aaatccagaagctagcaacggagct	U00932	105900	ttcacagttcacctttccactggg	AA030483
20693	agcttcctgggcatcgtcctgtgcc	W64294	63297	gctaccattatgctacatgccttga	U00932	105901	gagcacctcggcctaaaaagtgtgg	AA030483
20694	gcatcgtcctgtgccctgaaggggt	W64294	63298	attatgctacatgccttgaaggggc	U00932	105902	aaagtgtggcccatacatttcctct	AA030483
20695	tcctgtgccctgaaggggttccact	W64294	63299	ttacttatatgcattcggaaggcat	U00932	105903	tgtggcccatacatttcctctgtca	AA030483
20696	ctgtgccctgaaggggttccactgc	W64294	63300	attcggaaggcatccttgctggtga	U00932	105904	gcccatacatttcctctgtcaccag	AA030483
20697	acgagcggctgcacctgctgctcat	J04036	63301	aaggcatccttgctggtgagctcaa	U00932	105905	atacatttcctctgtcaccagccag	AA030483
20698	cagatgtcacctatgtcaaaaaggt	J04036	63302	tgatgcctgtcatcatgatcatcat	U00932	105906	cctctgtcaccagccagagtgtgaa	AA030483
20699	tcctcacagtgcctttgcgcatggt	J04036	63303	aggaacctgcaggtggctgcgtgac	X64837	105907	tctgtcaccagccagagtgtgaacg	AA030483
20700	tcacagtgcctttgcgcatggtggt	J04036	63304	ggcgtctctttgttgaggtttgact	X64837	105908	tgtcaccagccagagtgtgaacgtg	AA030483
20701	cagtgcctttgcgcatggtggtact	J04036	63305	attcattactaaattacactttgct	X64837	105909	accagccagagtgtgaacgtggtga	AA030483
20702	tggtacttacccgaatcttcactga	J04036	63306	tactaaattacactttgcttgattg	X64837	105910	gtaggtcccacgttcagacaagatg	AA030483
20703	gaatcttcactgagcgagaaatgaa	J04036	63307	attacactttgcttgattgcaattt	X64837	105911	aggtcccacgttcagacaagatgta	AA030483
20704	tcttcactgagcgagaaatgaaatg	J04036	63308	ctttgcttgattgcaatttgtaaaa	X64837	105912	atgtaccattgaaacattggtctgc	AA030483
20705	acgagatgcccatgcctgtgtagct	J04036	63309	tatttccattttggtaataatcagt	X64837	105913	cattggtctgcttcacttcacagtt	AA030483
20706	agatgcccatgcctgtgtagctgct	J04036	63310	tgtattatttcatcctgatgactgg	X64837	105914	ttggtctgcttcacttcacagttca	AA030483
20707	cttctccctatcctgcagtaaagtg	J04036	63311	atttcatcctgatgactggcatttc	X64837	105915	ggtctgcttcacttcacagttcacc	AA030483
20708	ctccctatcctgcagtaaagtgctt	J04036	63312	tcctgatgactggcatttcatcacc	X64837	105916	tctgcttcacttcacagttcaccttt	AA030483
20709	atgtcacctatgtcaaaaaggttcg	J04036	63313	gcatttcatcacctattgagatcac	X64837	105917	acttcacagttcacctttccactg	AA030483
20710	ccatgcggatgcacctgttcactgc	J04036	63314	ctattgagatcactgggtgtgtttc	X64837	105918	aggacagccagcctgtatgacagta	L01062
20711	ggatgcacctgttcactgccttgca	J04036	63315	agcctgcagatggaggcctgcagtc	X64837	105919	ctgtatgacagtaccctccttccac	L01062
20712	acctgttcactgccttgcagttgct	J04036	63316	aaagctatgaccagtttctgtctgt	X64837	105920	cagtctgtctgccatagctggcaaa	L01062
20713	tcactgccttgcagttgctctgcct	J04036	63317	gaggcctgcagtcatttacgtgcgt	X64837	105921	gtctgccatagctggcaaattgctc	L01062
20714	ctgccttgcagttgctctgcctggc	J04036	63318	tgcagtcatttacgtgcgtctttac	X64837	105922	tgccatagctggcaaattgctctct	L01062
20715	tgctctgcctggccctgctttgggc	J04036	63319	tctttacagtttccttgctgatgtg	X64837	105923	tggcaaattgctctcttaccctgtt	L01062
20716	ccctgctttgggcagtcatgtccac	J04036	63320	cagtttccttgctgatgtgaatggt	X64837	105924	caaattgctctcttaccctgttctt	L01062
20717	tcggcacaggctgttcccggaagtt	W64413	63321	taaacttttcattggccaacaccag	X64837	105925	attgctctcttaccctgttcttgct	L01062
20718	ggaagttcagcctcaagacggtgct	W64413	63322	tttcattggccaacaccagaatgta	X64837	105926	ctcttaccctgttcttgctggtgca	L01062
20719	gccgcatcgagtacatacactccaa	W64413	63323	tggccaacaccagaatgtattatat	X64837	105927	tgctggtgcagtcagcatggataga	L01062
20720	catcgagtacatacactccaagaac	W64413	63324	ggagtcctgtctgcctcgatacgtg	AA060259	105928	agctgtccactatgaaattcggaag	L01062
20721	tcgagtacatacactccaagaactt	W64413	63325	agtcctgtctgcctcgatacgtgag	AA060259	105929	tgtccactatgaaattcggaagtac	L01062
20722	caagaacttcatccaccgggatgtg	W64413	63326	gctgactaccaaccctgtctccagg	AA060259	105930	tttaaagcacgacttcatgttgagt	L01062
20723	cttcatccaccgggatgtgaagccc	W64413	63327	acccgtgctcgttcaggcacaagtc	AA060259	105931	gcacgacttcatgttgagttccata	L01062
20724	tcggcctggccaagaagtaccgcga	W64413	63328	ccgtgctcgttcaggcacaagtctc	AA060259	105932	agcttactgtgtgacctcagcaatg	L01062
20725	cctggccaagaagtaccgcgatgcc	W64413	63329	gctcgttcaggcacaagtctccttt	AA060259	105933	tgtgacctcagcaatggctagccta	L01062
20726	agaagtaccgcgatgcccgcacaca	W64413	63330	tcgttcaggcacaagtctcctttgt	AA060259	105934	gacctcagcaatggctagcctaggc	L01062
20727	acaagaacctgaccggcactgcccg	W64413	63331	gttcaggcacaagtctcctttgttg	AA060259	105935	ctattcttgtagcagtctgtctgcc	L01062
20728	gaacctgaccggcactgcccgctat	W64413	63332	tcaggcacaagtctcctttgttgga	AA060259	105936	ttgtagcagtctgtctgccatagct	L01062
20729	tcagcctcaagacggtgctgttgct	W64413	63333	gcacaagtctcctttgttggagata	AA060259	105937	tagcagtctgtctgccatagctggc	L01062
20730	cctcaagacggtgctgttgctggcc	W64413	63334	acaagtctcctttgttggagatagc	AA060259	105938	gacataacctgcaatgtatgtcaga	W09732
20731	tcaagacggtgctgttgctggccga	W64413	63335	aagtctcctttgttggagatagctg	AA060259	105939	ataacctgcaatgtatgtcagagga	W09732
20732	cgaccagatgatcagccgcatcgag	W64413	63336	ctgtctgcctcgatacgtgagccag	AA060259	105940	aaccgtgttcaacctgcagagcaca	W09732
20733	accagatgatcagccgcatcgagta	W64413	63337	gtctgcctcgatacgtgagccagct	AA060259	105941	gttcaacctgcagagcacattctct	W09732
20734	gatgatcagccgcatcgagtacata	W64413	63338	ctgcctcgatacgtgagccagcttg	AA060259	105942	caacctgcagagcacattctctcct	W09732
20735	tgatcagccgcatcgagtacataca	W64413	63339	gcctcgatacgtgagccagcttgcc	AA060259	105943	gcagagcacattctctccttccacg	W09732
20736	cagccgcatcgagtacatacactcc	W64413	63340	cgatacgtgagccagcttgccaaca	AA060259	105944	gagcacattctctccttccacgagg	W09732
20737	ggtgcaaagaccccatgcctcgggg	W64473	63341	atacgtgagccagcttgccaacagt	AA060259	105945	tccttccacgaggaaaagcgcccat	W09732
20738	aagaccccatgcctcggggcacagg	W64473	63342	acgtgagccagcttgccaacagtgg	AA060259	105946	aagcgcccatttgtgtgtgagcacg	W09732
20739	atgccataccagtaacctggagcag	W64473	63343	gtgagccagcttgccaacagtggac	AA060259	105947	gagcacgctggctgtggcaagacat	W09732
20740	ccataccagtaacctggagcagagt	W64473	63344	ggctctcttccaataacgtctctgg	X68362	105948	cacgctggctgtggcaagacattcg	W09732

TABLE 1

SEQ ID NO	sequence	DBAxnID
20741	taccagtaacctggagcagagtcag	W64473
20742	tcagtcttcccatagaagcgcacaa	W64473
20743	gtcttcccatagaagcgcacaatcc	W64473
20744	ccatagaagcgcacaatccccctgct	W64473
20745	tagaagcgcacaatcccctgcttct	W64473
20746	aagcgcacaatcccctgcttctggc	W64473
20747	ccctgcttctggcctgccacaagga	W64473
20748	cctgccacaaggacttggtctccaa	W64473
20749	ccatgcctcggggcacaggtaaagt	W64473
20750	ctgccacaaggacttggtctccaac	W64473
20751	taccggacgccgaacacagagccgt	W64473
20752	acgccgaacacagagccgtcatgtt	W64473
20753	ccgaacacagagccgtcatgtttgc	W64473
20754	aacacagagccgtcatgtttgcctg	W64473
20755	tggtccagctcgatgccataccagt	W64473
20756	tccagctcgatgccataccagtaac	W64473
20757	agctcgatgccataccagtaacctg	W64473
20758	gaggatctgcgtcttccagtatttg	L09105
20759	gatctgcgtcttccagtatttgagg	L09105
20760	agttaccatctggtacaggaatgag	L09105
20761	agttaccatctggtacgaggaatga	L09105
20762	taccatctggtacgaggaatgagga	L09105
20763	agatgtgtcttccagtgacttagga	L09105
20764	gtcttccagtgacttaggaggtacg	L09105
20765	ttccagtgacttaggaggtacgatc	L09105
20766	aggtacgatctcttataggtatgag	L09105
20767	tacgatctcttataggtatgaggat	L09105
20768	gatctcttataggtatgaggatctg	L09105
20769	ggatgtgtccctggtattgaggatc	L09105
20770	cgtcttccagtatttgaggaggtga	L09105
20771	gatgtgtccctggtattgaggatcc	L09105
20772	ttgaggccttcgttccagtgcctga	L09105
20773	aggccttcgttccagtgcctgagga	L09105
20774	agcctgagtcttctagtgtctggga	L09105
20775	ctgagtcttctagtgtctgggaagt	L09105
20776	tctgtgtccatcagtatctgaggag	L09105
20777	gtgtccatcagtatctgaggaggtg	L09105
20778	taggactgtccatgtctgaggagtt	L09105
20779	cattaagaactgcatctgtgccaga	D16262
20780	gaactgcatctgtgccagagattta	D16262
20781	ctcctctatgatggccgctcagcat	D16262
20782	tatgatggccgctcagcatcccgct	D16262
20783	gatggccgctcagcatcccgctggc	D16262
20784	tcagcatcccgctggctgttcagaa	D16262
20785	gcatcccgctggctgttcagaaagg	D16262
20786	tcccgctggctgttcagaaaggctt	D16262
20787	aaggctttctcatataactcctgta	D16262
20788	gctttctcatataactcctgtactt	D16262
20789	ttctcatataactcctgtacttaaa	D16262
20790	tataactcctgtacttaaacaggca	D16262
20791	ctgcatctgtgccagagatttactg	D16262
20792	catctgtgccagagatttactgtta	D16262
20793	ataacagcctaggggcagctcctcc	D16262
20794	acagcctaggggcagctcctccagg	D16262
20795	atgaatgtccattggctcctctatg	D16262
20796	aatgtccattggctcctctatgatg	D16262
20797	cattggctcctctatgatggccgct	D16262
20798	tggctcctctatgatggccgctcag	D16262
20799	ttccttcaaggagatgctctgctgg	U16297
20800	ctgctggtgtaccgtgtcttcagaa	U16297
20801	tttgttctgtactttgtgcagtggc	U16297
20802	agcttcttcctgttccctggagctt	U16297
20803	ggagcttcattctctctgcggagcc	U16297
20804	tcattctctctgcggagccgctacc	U16297
20805	tctgctgggcacagcctactgggcc	U16297
20806	gtcgtggccaacgtgctaggcttgc	U16297
20807	gccaacgtgctaggcttgctgctgg	U16297
20808	tacatcttggctcaggctgcactgg	U16297
63345	cttccaataacgtctctggatgcaa	X68362
63346	tccatccagagctctctgttcacag	X68362
63347	tctctgttcacagtcgcctctgcca	X68362
63348	ttcacagtcgcctctgccagtgggc	X68362
63349	gctgcctccaaggcacagtgagctg	X68362
63350	ccacaggctttcctcactacagggt	X68362
63351	gctttcctcactacagggtgatagg	X68362
63352	ctcactacagggtgataggctggct	X68362
63353	ccaccatgttgtgaggaggaagaag	X68362
63354	caatgtcttttcaggattgcttcat	X68362
63355	cttttcaggattgcttcatggattg	X68362
63356	tctctggatgcaactgggaacctgg	X68362
63357	gatgcaactgggaacctggtatttg	X68362
63358	aacctggtatttgccaatgcaggag	X68362
63359	ccgaacatcgtgactgcacctctgt	X68362
63360	gctgcagcctccacagggaactctg	X68362
63361	gcctccacagggaactctgcaccta	X68362
63362	acctcaactgagtccatccagagct	X68362
63363	actgagtccatccagagctctctgt	X68362
63364	tgggctgagtccagccctcatgagc	X53654
63365	gctgagtccagccctcatgagcaac	X53654
63366	gcctctcttcttgaaccacaccggt	X53654
63367	tctcttcttgaaccacaccggtctg	X53654
63368	ggctgcagccgtagcagcatccatc	X53654
63369	tgcagccgtagcagcatccatctcc	X53654
63370	cgtagcagcatccatctccagcaag	X53654
63371	agcagcatccatctccagcaagtct	X53654
63372	agcatccatctccagcaagtctcct	X53654
63373	atcctccacgtgcagtgatgtggca	X53654
63374	ctccacgtgcagtgatgtggcagca	X53654
63375	tgtggcagcacagaccccctggaggc	X53654
63376	cctcatgagcaacaacccttttggcc	X53654
63377	gagcaacaacccttttggccactatc	X53654
63378	cactatccaagccctggcctctggt	X53654
63379	gccccttaccagccttgatggcagc	X53654
63380	cagccttgatggcagcgggaacctg	X53654
63381	gagtcccagcttagtaacctcgcct	X53654
63382	cagcttagtaacctcgcctctcttc	X53654
63383	cttagtaacctcgcctctcttcttg	X53654
63384	ctgtcgccgtacggttcgtgctcgc	AA060368
63385	tgtcgccgtacggttcgtgctcgcc	AA060368
63386	acctgtactcggcgctactggccga	AA060368
63387	ctgtactcggcgctactggccgacg	AA060368
63388	cgtcgtctccgagttcccggctctg	AA060368
63389	gtcgtctccgagttcccggctctgc	AA060368
63390	gtctccgagttcccggctctgcgtc	AA060368
63391	ttttccaccggcacggatgagcacg	AA060368
63392	tttccaccggcacggatgagcacgg	AA060368
63393	tccaccggcacggatgagcacggcc	AA060368
63394	ccaccggcacggatgagcacggcct	AA060368
63395	accggcacggatgagcacggcctga	AA060368
63396	cgccgtacggttcgtgctcgccgag	AA060368
63397	tgctcgccgagcgctagtggcgacg	AA060368
63398	ttcaccacacctatcttctacgtga	AA060368
63399	tcaccacacctatcttctacgtgaa	AA060368
63400	accacacctatcttctacgtgaacg	AA060368
63401	ccacacctatcttctacgtgaacgc	AA060368
63402	acacctatcttctacgtgaacgccg	AA060368
63403	ggcacctgtactcggcgctactggc	AA060368
63404	gtgctgcctgtgtgactacaagctg	X79446
63405	tgactacaagctgtactgccttcgc	X79446
63406	gccgccatgtgtggatgagaaggac	X79446
63407	gtactcctacgggctcggcagctgt	X79446
63408	ctacgggctcggcagctgtgtcaag	X79446
63409	gctcggcagctgtgtcaagatcgag	X79446
63410	gtctccatgttacccttgcacgtct	X79446
63411	atgttacccttgcacgtctccctgt	X79446
63412	tccctgtaatccttgcaacccatgt	X79446
105949	acattcgcaatgaaacagagtctca	W09732
105950	acctgcaatgtatgtcagaggatgt	W09732
105951	cagagtctcatgaggcacagtgtcg	W09732
105952	atgttcaagcgcagagattaccttа	W09732
105953	gattaccttaagcagcacatgaaga	W09732
105954	taccttaagcagcacatgaagactc	W09732
105955	gtgtaccgctgtccgcgcaaggctg	W09732
105956	taccgctgtccgcgcaaggctgcga	W09732
105957	ccgcgcaaggctgcgaagaacctac	W09732
105958	cacaaccgtgttcaacctgcagagc	W09732
105959	caggtccatctccagggctgtggca	AA065868
105960	catctccagggctgtggcaaccaca	AA065868
105961	caccaagcgggacattctgaatgcc	AA065868
105962	ggacattctgaatgccttcaaaggt	AA065868
105963	cattctgaatgccttcaaaggtggc	AA065868
105964	tgccttcaaaggtggctgccggatc	AA065868
105965	gatcctgccgttgccttatgtgatg	AA065868
105966	gtgcaaccgttttgtggccgagtat	AA065868
105967	gtatgaacctgtgctcatagagagc	AA065868
105968	acctgtgctcatagagagcctcaag	AA065868
105969	gttcatgatgaaccccacggaccta	AA065868
105970	ccccacggacctatgcaagaagatg	AA065868
105971	ggctgtggcaaccacaccatccctg	AA065868
105972	accatccctgccggtggatgaggaa	AA065868
105973	cagcttctgccaagggtgcaaaagg	AA065868
105974	catgtcttcccagaatctggaccac	AA065868
105975	ttcccagaatctggaccacaagagc	AA065868
105976	tctggaccacaagagcaccaagcgg	AA065868
105977	caagagcaccaagcgggacattctg	AA065868
105978	gagcaccaagcgggacattctgaat	AA065868
105979	ttcccagtgtcactcgcggcacagc	W09701
105980	ccagtgtcactcgcggcacagccgt	W09701
105981	ctacagcgcagctgcacagtgagcc	W09701
105982	tacagcgcagctgcacagtgagcct	W09701
105983	acagcgcagctgcacagtgagcctc	W09701
105984	cagcgcagctgcacagtgagcctcc	W09701
105985	agcgcagctgcacagtgagcctccg	W09701
105986	gcagctgcacagtgagcctccggtc	W09701
105987	acttcaacccgggtgcgctgacagc	W09701
105988	cttcaacccgggtgcgctgacagcg	W09701
105989	tcaacccgggtgcgctgacagcggc	W09701
105990	caacccgggtgcgctgacagcggcg	W09701
105991	agtgtcactcgcggcacagccgtca	W09701
105992	gtgtcactcgcggcacagccgtcag	W09701
105993	actcgcggcacagccgtcagcgggg	W09701
105994	tggtggctacagcgcagctgcacag	W09701
105995	gtggctacagcgcagctgcacagtg	W09701
105996	tggctacagcgcagctgcacagtga	W09701
105997	ggctacagcgcagctgcacagtgag	W09701
105998	gctacagcgcagctgcacagtgagc	W09701
105999	cttcctcgaagcctccaggttcgca	W89579
106000	cctcgaagcctccaggttcgcacaa	W89579
106001	tttcatgcagtgtgcaaggaaaata	W89579
106002	atcaggtgaactggaccccgagagg	W89579
106003	tgaactggaccccgagaggatgggc	W89579
106004	actggaccccgagaggatgggctct	W89579
106005	catccagtatggagacgctgccctg	W89579
106006	tcggcgtacacaggctccaagtgca	W89579
106007	gcgtacacaggctccaagtgcacag	W89579
106008	tacacaggctccaagtgcacaggag	W89579
106009	ggctccaagtgcacaggagtgtggc	W89579
106010	ggcgccccagtgacacaggttcagc	W89579
106011	cgaagcctccaggttcgcacaagag	W89579
106012	ctccaggttcgcacaagagaatgag	W89579
106013	gttcctggaaaccagtgcactgact	W89579
106014	ggaaaccagtgcactgactggcgag	W89579
106015	aaccagtgcactgactggcgagaac	W89579
106016	cagtgcactgactggcgagaacgtc	W89579

TABLE 1

SEQ ID NO	sequence	DBAxnID
20809	ggttcccaggctgaagagcaagccc	U16297
20810	atggacttcaagacactcacggagg	U16297
20811	gtgtaccgtgtcttcagaagagaag	U16297
20812	agagaagccaaacgcacgaccaaga	U16297
20813	gccaaacgcacgaccaagatcttgc	U16297
20814	cgcacgaccaagatcttgcatgggc	U16297
20815	accaagatcttgcatgggctgctgc	U16297
20816	ttcgccttcatcatcgccctggtgg	U16297
20817	gactaccacaagaagaagggctatg	U16297
20818	ggctatgcagacctgtacagcttgc	U16297
20819	ttctggatctgctccaattgctctc	W64542
20820	atctgctccaattgctctctcttat	W64542
20821	agttgtttcttcttctgcactaata	W64542
20822	ttcttctgcactaataattccaaca	W64542
20823	ttctgcactaataattccaacatga	W64542
20824	acattggccaaatcaaggttatctt	W64542
20825	ttatcttgatcagttcctagtagat	W64542
20826	tcagttcctagtagatcttgaaata	W64542
20827	aatatttgccacctatgcccattgg	W64542
20828	tgccacctatgcccattggtgctac	W64542
20829	ctactcactgagtggtccaatttga	W64542
20830	ctcactgagtggtccaatttgaacc	W64542
20831	tccaattgctctctcttatttctcc	W64542
20832	tgctctctcttatttctccttgcaa	W64542
20833	tctctcttatttctccttgcaacct	W64542
20834	tttctccttgcaaccttgaggaatt	W64542
20835	ctccttgcaaccttgaggaattcca	W64542
20836	aggatctgtagctgagctgcatgtg	W64542
20837	gcttccagttgtttcttcttctgca	W64542
20838	tccagttgtttcttcttctgcacta	W64542
20839	gccaagctggcagcaggagacgata	W64561
20840	caagctggcagcaggagacgatatg	W64561
20841	tgacaggactgagctgtcgaatgag	W64561
20842	acgttgtaggagcccgtagtcatcg	W64561
20843	cccgtagtcatcgtgaggtcgtctc	W64561
20844	ccgtagtcatcgtgaggtcgtctca	W64561
20845	cgtagtcatcgtgaggtcgtctcaa	W64561
20846	gtagtcatcgtgaggtcgtctcaag	W64561
20847	agtcatcgtgaggtcgtctcaagta	W64561
20848	gtcatcgtgaggtcgtctcaagtat	W64561
20849	tcatcgtgaggtcgtctcaagtatt	W64561
20850	catcgtgaggtcgtctcaagtattg	W64561
20851	atatgatgcatggcagcctgcatga	W64561
20852	atgatgcatggcagcctgcatgaag	W64561
20853	tgatgcatggcagcctgcatgaagt	W64561
20854	tgaagtctgtcactgacaggactga	W64561
20855	gaagtctgtcactgacaggactgag	W64561
20856	aagtctgtcactgacaggactgagc	W64561
20857	agtctgtcactgacaggactgagct	W64561
20858	ctgacaggactgagctgtcgaatga	W64561
20859	cccaacacatgatgagcacctcatg	L37663
20860	tgagcacctcatgcatggtacacac	L37663
20861	actaaaaagatcccagcagcttctg	L37663
20862	aagatcccagcagcttctgtttact	L37663
20863	catcaccggcatatcattgtactcg	L37663
20864	cggcatatcattgtactcggcaggg	L37663
20865	ggcaccatgtggtcatttgcccact	L37663
20866	atgtggtcatttgcccactctggat	L37663
20867	tcatttgcccactctggatagccct	L37663
20868	gcccactctggatagccctacaggg	L37663
20869	tagccctacagggtagatcttagtg	L37663
20870	cttagtggctctagtaggccagtag	L37663
20871	cgacctggccaagatcctggaggag	L37663
20872	ttagtggctctagtaggccagtaga	L37663
20873	ttcggtttttaccatcatctgcacc	L37663
20874	ttttaccatcatctgcaccatcggc	L37663
20875	catcctcatgtcagccccaaacttt	L37663
20876	catgtcagccccaaactttgtggag	L37663

SEQ ID NO:	sequence	DBAxnID
63413	taatccttgcaacccatgtagcccc	X79446
63414	ctatccctgtggaagccgattctcc	X79446
63415	aagccgattctcctgtaggaagatg	X79446
63416	caagctgtactgccttcgcccatcg	X79446
63417	ctcctcttgctgcagcagtaacata	X79446
63418	taacatactgggatcggtgaatgtg	X79446
63419	tcaagtcaaagtgcgcgtgaaagat	X79446
63420	gtacgactgcctcggatccaaaaag	X79446
63421	ctgcctcggatccaaaaagtacagt	X79446
63422	ttacatgaacatctgcaaagagttc	X79446
63423	agagttcagtctgccgccatgtgtg	X79446
63424	caattatacatattcacgtctacaa	AA106112
63425	tacatattcacgtctacaaaaactc	AA106112
63426	ccagcttctttttcacaatccaccag	AA106112
63427	tcttttcacaatccaccaggtagtt	AA106112
63428	cacaatccaccaggtagttgactcc	AA106112
63429	ccaccaggtagttgactccgtcaat	AA106112
63430	ggtagttgactccgtcaataacaat	AA106112
63431	tgactccgtcaataacaatctgaac	AA106112
63432	taacaatctgaacaagctcaacctc	AA106112
63433	caagctcaacctctgatctgccgat	AA106112
63434	caacctctgatctgccgatccgatc	AA106112
63435	ctgatctgccgatccgatctatgtt	AA106112
63436	ttcacgtctacaaaaactctatcga	AA106112
63437	tgccgatccgatctatgttggaaat	AA106112
63438	tctacaaaaactctatcgagcagag	AA106112
63439	agcagagacttcctgtgtctgtcat	AA106112
63440	gacttcctgtgtctgtcataccagc	AA106112
63441	ctgtcataccagcagacagtttacc	AA106112
63442	taccagcagacagtttacccataaa	AA106112
63443	tgatgtcttggcctctctccagctt	AA106112
63444	ctctctccagcttcttttcacaatc	AA106112
63445	ccaggccaagcctgcagtatggcac	
63446	gccaagcctgcagtatggcactaca	
63447	ttttccttccttctctaatcaacag	
63448	ttccttccttctctaatcaacagag	
63449	ttccttctctaatcaacagaggatt	
63450	ccttctctaatcaacagaggattct	
63451	ttctctaatcaacagaggattcttt	
63452	ctctaatcaacagaggattctttga	
63453	ggattctttgattcaatgtcacccc	
63454	ccctccaatgcactcttgttctgtc	
63455	cagtgagtggtctttccttagtat	
63456	agtatctcttctacacttttatctc	
63457	agcctgcagtatggcactacagagc	
63458	cctgcagtatggcactacagagctt	
63459	tgcagtatggcactacagagcttct	
63460	cagtatggcactacagagcttcttc	
63461	atggcactacagagcttcttccttg	
63462	cactacagagcttcttccttgtgtc	
63463	ctacagagcttcttccttgtgtctc	
63464	ttgtgtctctctggctacttccctg	
63465	tcaacgccatctctgtcctctactt	X56906
63466	tctacttcgacgacagctctaatgt	X56906
63467	tttccttctggcacgtgacggacaa	X56906
63468	agatcctaccagctaccacagcaaa	X56906
63469	taccagctaccacagcaaacgccta	X56906
63470	ctaccacagcaaacgcctaagagca	X56906
63471	aatgtctgccaggaaagtgtccatt	X56906
63472	ccctggcgctctgagtctttgagga	X56906
63473	agtaatcgcaagcctcgttcagctg	X56906
63474	cgcaagcctcgttcagctgcagcag	X56906
63475	tcagctgcagcagaaggaagggctt	X56906
63476	aaccaagcagaagccactgtaatga	X56906
63477	tcgacgacagctctaatgtcatcct	X56906
63478	tatgtcacaataaaacccatgaatg	X56906
63479	cctgtggctgccactagctcttcct	X56906
63480	actagctcttcctgagaccctgacc	X56906

SEQ ID NO	sequence	DBAxnID
106017	actgactggcgagaacgtcgaagag	W89579
106018	ggctttcatgcagtgtgcaaggaaa	W89579
106019	ccctcgacgagaattcggcacaggt	W09705
106020	attcggcacaggtaagcaatgagtt	W09705
106021	aggctgggttccgcatattgatact	W09705
106022	ctgggttccgcatattgatactgct	W09705
106023	tccgcatattgatactgcttatgtg	W09705
106024	tattgatactgcttatgtgtaccaa	W09705
106025	tactgcttatgtgtaccaaactgaa	W09705
106026	gtaccaaactgaaaatcatgtaggg	W09705
106027	gcaggctattccgagcaagatttga	W09705
106028	ggctattccgagcaagatttgagct	W09705
106029	tattccgagcaagatttgagctggg	W09705
106030	gatttgagctgggcttgtgaaaaga	W09705
106031	agttccaaacagcaatgtgtgaaac	W09705
106032	gatggcaacttcatccctgcgctgg	W09705
106033	aacttcatccctgcgctgggctttg	W09705
106034	ttcatccctgcgctgggctttggca	W09705
106035	atccctgcgctgggctttggcacta	W09705
106036	ggctttggcactacaaaccagaaga	W09705
106037	ataagccactggaggctatccattt	W09705
106038	aggctatccatttagctctagaggc	W09705
106039	tgaccagacagccacctatgaagac	J03857
106040	gacagccacctatgaagacatagtg	J03857
106041	cccaaggcttctgggagtgccatgt	J03857
106042	tgggatctgtccccatgtttgggac	J03857
106043	aatggactcagaacacactggcttc	J03857
106044	ctcagaacacactggcttcaagagg	J03857
106045	acacactggcttcaagaggagtcta	J03857
106046	accatggttcacactgacacctgaa	J03857
106047	gttcacactgacacctgaagaagtt	J03857
106048	actgacacctgaagaagttgccaga	J03857
106049	tgccagaatgccatttctctctccc	J03857
106050	cattccaaggatcacccaaagccta	J03857
106051	catagtgactcttcggacaggggag	J03857
106052	ttcatcctgctcaactcttgggcct	J03857
106053	ctgctcaactcttgggcctcactgc	J03857
106054	aactcttgggcctcactgcttccaa	J03857
106055	ccggccagcgtctgaagctggacca	J03857
106056	tggaccatcaataccacctctcatt	J03857
106057	ccctggtccccagctcttgctgaag	J03857
106058	acttgacccaaggcttctgggagtg	J03857
106059	gaccatcacattgcctagaggatag	AA016424
106060	catcacattgcctagaggatagcat	AA016424
106061	cttccaagtattgtcgtttgacact	AA016424
106062	attgtcgtttgacactcagctgtct	AA016424
106063	gtttgacactcagctgtctaaggta	AA016424
106064	tgacactcagctgtctaaggtattc	AA016424
106065	cactcagctgtctaaggtattcaaa	AA016424
106066	aggtattccagtactacagcttttg	AA016424
106067	tattccagtactacagcttttgaga	AA016424
106068	tccagtactacagcttttgagattc	AA016424
106069	agtactacagcttttgagattctag	AA016424
106070	tgacagtttttcccagcctggctt	AA016424
106071	tagaggctgtctggccttagaagaa	AA016424
106072	aggctgtctggccttagaagaattc	AA016424
106073	ctgtctggccttagaagaattcctc	AA016424
106074	aagtatttcaaatctcatagatgac	AA016424
106075	tatttcaaatctcatagatgacttc	AA016424
106076	aaatctcatagatgacttccaagta	AA016424
106077	tctcatagatgacttccaagtattg	AA016424
106078	agatgacttccaagtattgtcgttt	AA016424
106079	caaatgcatcacttccaactgtaat	L00619
106080	catcacttccaactgtaatcactgt	L00619
106081	tggcccccatacggtggtattggct	L00619
106082	attggctctcttaacctcacatgca	L00619
106083	tctcttaacctcacatgcacgaagg	L00619
106084	aacctcacatgcacgaaggctttga	L00619

TABLE 1

SEQ ID NO	sequence	DBAxnID
20877	ggggtcctaactctacattgtgata	L37663
20878	tctgaggtatccctgtagctgtcgg	L37663
20879	gtatccctgtagctgtcggtcttga	L37663
20880	gtcatcagtgctgcatgacagcaag	D17674
20881	agtgctgcatgacagcaaggagttt	D17674
20882	gctgtgatgccttctacaattgtct	D17674
20883	atgccttctacaattgtctcaggtc	D17674
20884	tctacaattgtctcaggtctttatc	D17674
20885	attgtctcaggtctttatccacatc	D17674
20886	tggtatctttcatcctggcttacag	D17674
20887	ctttcatcctggcttacagaaccct	D17674
20888	tcctggcttacagaaccctcttctc	D17674
20889	cttacagaaccctcttctctcaaga	D17674
20890	caaacacatacagtttctggagtta	D17674
20891	atgtgtatccattcttgagtaaaaa	D17674
20892	gatgtttgaccctgggcactttcta	D17674
20893	tgaccctgggcactttctaaatgcg	D17674
20894	aagtgactacttcatgccttttca	D17674
20895	ctacttcatgccttttcaacagga	D17674
20896	ccgcatggagctgtttctaatcctg	D17674
20897	cttcaaactgaaatctctggtccac	D17674
20898	ctgcttcattcctctctaaagagat	D17674
20899	gcccctgctgtgatgccttctacaa	D17674
20900	gaagctgaaacctcatgaggagcct	W64608
20901	acctcatgaggagcctctccgttct	W64608
20902	gctccaagctctgttttatctgctg	W64608
20903	tctgttttatctgctggacagagct	W64608
20904	tctgctggacagagctgtggacagc	W64608
20905	gttcatctatgacatgtgcgggtct	W64608
20906	catctatgacatgtgcgggtctaat	W64608
20907	tgacatgtgcgggtctaattatgcc	W64608
20908	gtctaattatgccaactttgagcta	W64608
20909	taattatgccaactttgagctagat	W64608
20910	ttatgccaactttgagctagatctt	W64608
20911	caactttgagctagatcttggcaag	W64608
20912	gcctctccgttctgagatcctcagt	W64608
20913	gaaagtcctaaacctgctgaagatt	W64608
20914	ccgttctgagatcctcagtgggaag	W64608
20915	tcgagacccaactggagcctccatt	W64608
20916	agacccaactggagcctccattgcc	W64608
20917	tgcccagcacgtggtgctccaagct	W64608
20918	ccagcacgtggtgctccaagctctg	W64608
20919	cgtggtgctccaagctctgttttat	W64608
20920	ggtgctccaagctctgttttatctg	W64608
20921	caactgtaccagtaactgacaagat	L36434
20922	taactgacaagatccacaaagccta	L36434
20923	aggctgtcctcagggacttctatga	L36434
20924	tcctcagggacttctatgagtccat	L36434
20925	gggacttctatgagtccatgtttcc	L36434
20926	gctttctgacatgcatgagctccaa	L36434
20927	tgacatgcatgagctccaagatgct	L36434
20928	gcatgagctccaagatgctgttagc	L36434
20929	aatatctaagtcagctgcagccctg	L36434
20930	ggaagctctcagacgcgcgggacgt	L36434
20931	ctgaaagactgcactctgtcaagag	L36434
20932	gactgcactctgtcaagagagacga	L36434
20933	acaagatccacaaagcctataagac	L36434
20934	tccacaaagcctataagacaagaac	L36434
20935	atacaaaccaagtgtttctcatgtg	L36434
20936	accaagtgtttctcatgtggttggc	L36434
20937	tgtttctcatgtggttggccagttg	L36434
20938	tcatgtggttggccagttggatgac	L36434
20939	aattgaccacaaccataaagatgcc	L36434
20940	ccataaagatgccccggacagtgaa	L36434
20941	ggttccaagagggctccgcacttct	AA041810
20942	gacctggagcgccacagcatctcac	AA041810
20943	ttgcggcgccattgtaacatccatg	AA041810
20944	cggcgccattgtaacatccatgctg	AA041810
63481	ttccaaatcttcgatgtctcaccat	X56906
63482	actgcccaccttggcgaggagccaa	X56906
63483	caccttggcgaggagccaacagacc	X56906
63484	cagaaacctgagcgtgcaggcagct	X56906
63485	gcgccctttccttctggcacgtgac	X56906
63486	ccaggtgcctttctttgcctctgca	Z17804
63487	gcctttctttgcctctgcagtctca	Z17804
63488	cttaacagtgtgcagttgggattgg	Z17804
63489	gtgaaaatccatcccgataagtctc	Z17804
63490	tgctgtgactctgactccttagtcg	Z17804
63491	agtcccatcacctctgaaaggctac	Z17804
63492	atcaggccatgctccattacaccct	Z17804
63493	ttttctgttgtagtgagtgttacag	Z17804
63494	gttacagcttggctagagaagcagc	Z17804
63495	aagcagctactatgtgggtgcaatt	Z17804
63496	ccttaatctaaaagctctattcaat	Z17804
63497	tctaaaagctctattcaatgcaact	Z17804
63498	ctttgcctctgcagtctcatttctc	Z17804
63499	gctctattcaatgcaactggaattc	Z17804
63500	atttctcatgatttgcaaggttggc	Z17804
63501	ttgcaaggttggccctgtatttctt	Z17804
63502	ctgttgacccccagtaagctgaact	Z17804
63503	tgttaaagcctctgacatagccaca	Z17804
63504	tgacatagccacaacaggcttctgc	Z17804
63505	agccacaacaggcttctgcttaaca	Z17804
63506	cttctgcttaacagtgtgcagttgg	Z17804
63507	atctacggagcgacatttgagtatt	AA060550
63508	aatgctaggaccaaacacaatcggt	AA060550
63509	gtttacttatctgcactgtcaagac	AA060550
63510	tttacttatctgcactgtcaagact	AA060550
63511	ttacttatctgcactgtcaagactg	AA060550
63512	tacttatctgcactgtcaagactga	AA060550
63513	cttatctgcactgtcaagactgaat	AA060550
63514	ttatctgcactgtcaagactgaatg	AA060550
63515	tatctgcactgtcaagactgaatgg	AA060550
63516	ctgcactgtcaagactgaatggctg	AA060550
63517	tgcactgtcaagactgaatggctgt	AA060550
63518	agcatgtggtctttaccaaggtgaa	AA060550
63519	atgctaggaccaaacacaatcggtt	AA060550
63520	tgctaggaccaaacacaatcggttc	AA060550
63521	tcggttcccagtttacttatctgca	AA060550
63522	gttcccagtttacttatctgcactg	AA060550
63523	tcccagtttacttatctgcactgtc	AA060550
63524	cccagtttacttatctgcactgtca	AA060550
63525	ccagtttacttatctgcactgtcaa	AA060550
63526	cagtttacttatctgcactgtcaag	AA060550
63527	tttgtttctttgcctcagcagcaca	X52102
63528	tctttgcctcagcagcacatcttgc	X52102
63529	ctgtgcccagctatgccagcagtcc	X52102
63530	ccagctatgccagcagtccaggggc	X52102
63531	ccctgcctgtccttctgtagaggct	X52102
63532	ctgtccttctgtagaggctgttgag	X52102
63533	gactgagatcctgtgggacagtcgg	X52102
63534	ttaccactgatgttttagctgatgg	X52102
63535	ttttagctgatggtgactggcatag	X52102
63536	ggcatagtcccaattccctatctct	X52102
63537	gtcccaattccctatctctccaagt	X52102
63538	tatctctccaagtaggtggtgttag	X52102
63539	atcttgctactggctttagatctgt	X52102
63540	ctactggctttagatctgtggtttt	X52102
63541	gatctgtggttttccctctacccag	X52102
63542	gccatctccccagaatgggaatttc	X52102
63543	tttttgtgcgcgatacttaaggttg	X52102
63544	tacaaccgacagctgatgtcaggcg	X52102
63545	ctgatgtcaggcggcgcgtttttct	X52102
63546	tagctatttcctctgtgcccagcta	X52102
63547	tatgattttatacctgtggggctga	X52101
63548	gattttatacctgtggggctgaggc	X52101
106085	atggacgcgtgtgcactgcttactc	L00619
106086	cttactccagtgtcctgcttgggaa	L00619
106087	ccagtgtcctgcttgggaagatggg	L00619
106088	gtaaatggtgccctgtgttcacaga	L00619
106089	ggtgccctgtgttcacagaaaggtt	L00619
106090	tatttatgcctagatcaggagagta	L00619
106091	ttccaactgtaatcactgtgtccag	L00619
106092	ctgtaatcactgtgtccagataaaa	L00619
106093	actctgtcattcagaaaatgaactt	L00619
106094	tgaacttcctcaactggtccacaat	L00619
106095	tcctcaactggtccacaatcatctc	L00619
106096	actggtccacaatcatctctgttta	L00619
106097	cgatttctgggacatccaatctgga	L00619
106098	ctgggacatccaatctggaagataa	L00619
106099	accgtgttccgaggatatgtcatcc	L11650
106100	ggatatgtcatccccaagggtacag	L11650
106101	tctctggttgaccctaaggatatcg	L11650
106102	cctaaggatatcgacctcagccctg	L11650
106103	gacctcagccctgttacaattggct	L11650
106104	agccctgttacaattggctttggca	L11650
106105	tttggcagtatcccacgcgaattta	L11650
106106	aaactctgtgtcattcctcgttcat	L11650
106107	tgtgtcattcctcgttcatgagacc	L11650
106108	attcctcgttcatgagacctgctgc	L11650
106109	cgttcatgagacctgctgcccatca	L11650
106110	cccatcattatcccttacaaaatga	L11650
106111	gagtttccagatccagagacattta	L11650
106112	acatttaaacctgagcattttctga	L11650
106113	aaacctgagcattttctgaatgaaa	L11650
106114	gaactgtttctgcttttgtctgcta	L11650
106115	cttttgtctgctattctgcagcatt	L11650
106116	tctgctattctgcagcattttaatc	L11650
106117	tttaatctgaagtctctggttgacc	L11650
106118	ctgaagtctctggttgaccctaagg	L11650
106119	agacatagcagttctcgacctatgg	M26940
106120	agcagttctcgacctatgggtcagg	M26940
106121	ttcacctttggatcatgctacaaaa	M26940
106122	cattcatttgaattcgacccatgga	M26940
106123	tttgaattcgacccatggactctat	M26940
106124	gaattcgacccatggactctatatg	M26940
106125	ttcgacccatggactctatatgctt	M26940
106126	ccatggactctatatgcttctcagt	M26940
106127	tggactctatatgcttctcagttat	M26940
106128	actctatatgcttctcagttatatt	M26940
106129	tatgcttctcagttatattacagga	M26940
106130	gcttctcagttatattacaggaatt	M26940
106131	agttctcgacctatgggtcaggaca	M26940
106132	tctcgacctatgggtcaggacacct	M26940
106133	tgaatgacttttcacagaggtagc	M26940
106134	gggtcaccaaaacacgaggagcagt	M26940
106135	tcaccaaaacacgaggagcagtatt	M26940
106136	tctttctttcacagaactgactgaa	M26940
106137	tttcacagaactgactgaaactgga	M26940
106138	cttttcacctttggatcatgctaca	M26940
106139	ccttggatatcgccaggatgatccc	M90364
106140	cagctaccgttcttttcactctggt	M90364
106141	gtttgatactgacctgtaaatcgtc	M90364
106142	aatacttactctgcctgcagaactc	M90364
106143	tactctgcctgcagaactccagaaa	M90364
106144	gtaaatctgccaccaaacagataca	M90364
106145	ccaaacagatacatacctttggaagg	M90364
106146	ttttgccacagcttttgcagcgtta	M90364
106147	cacagcttttgcagcgttatactca	M90364
106148	ttttgcagcgttatactcagatgag	M90364
106149	gtaacatttgctgttttcaacatta	M90364
106150	tttgctgttttcaacattaatagca	M90364
106151	ccaccctggtgctgactatccagtt	M90364
106152	acattaatagcagccttctctctat	M90364

TABLE 1

SEQ ID NO	sequence	DBAxnID
20945	cgccattgtaacatccatgctggcc	AA041810
20946	cattgtaacatccatgctggcctta	AA041810
20947	tgtaacatccatgctggccttaggc	AA041810
20948	atccatgctggccttaggcctgtcc	AA041810
20949	catgctggccttaggcctgtccgtt	AA041810
20950	aggcctgtccgttgtgtgctctgcc	AA041810
20951	cctgtccgttgtgtgctctgccctc	AA041810
20952	caccgcatccactctggtgagcgac	AA041810
20953	cgccacagcatctcacactcagaat	AA041810
20954	cacagcatctcacactcagaattga	AA041810
20955	agcatctcacactcagaattgaagc	AA041810
20956	gaattgaagccacacgtgtgcaaag	AA041810
20957	aagccacacgtgtgcaaagattgcg	AA041810
20958	ttcaaacggtccagccacttgcggc	AA041810
20959	tccagccacttgcggcgccattgta	AA041810
20960	cacttgcggcgccattgtaacatcc	AA041810
20961	ggctacgcccagtcgtgcaggtata	L36435
20962	tacgcccagtcgtgcaggtataaac	L36435
20963	tctcctgagttctttctgtgagtcc	L36435
20964	cctgagttctttctgtgagtcctgg	L36435
20965	ttctttctgtgagtcctggcgggtc	L36435
20966	cggccttgacctgtttgacttgagc	L36435
20967	ccttgacctgtttgacttgagctag	L36435
20968	tgacctgtttgacttgagctagagg	L36435
20969	cctgtttgacttgagctagagggag	L36435
20970	gcagcctcttagacttgggcagagt	L36435
20971	gcctcttagacttgggcagagttag	L36435
20972	caagctggaaggccgcgaggcttat	L36435
20973	aaacgcgtccagcagaaacatcacc	L36435
20974	cgcgtccagcagaaacatcacctgg	L36435
20975	aagacgcagctcattcagcaggtgg	L36435
20976	acgcagctcattcagcaggtggagc	L36435
20977	ctcattcagcaggtggagcagctta	L36435
20978	attcagcaggtggagcagcttaagc	L36435
20979	agagacgcctacaaggtcaagtgcg	L36435
20980	gagaaactcgccaactccggcttca	L36435
20981	attgaatcctatctcatcctctagt	AA120109
20982	gaatcctatctcatcctctagttta	AA120109
20983	acatcttcagcagccatggtcaaag	AA120109
20984	tcagcagccatggtcaaagctggag	AA120109
20985	gcagtctctggcaccattctagctg	AA120109
20986	gtctctggcaccattctagctggtt	AA120109
20987	gggctcatcctgttaacacagagtg	AA120109
20988	ttaacacagagtgccctgggctctg	AA120109
20989	acacagagtgccctgggctctgcaa	AA120109
20990	tctgcaacatctgcacttggagcac	AA120109
20991	gcaacatctgcacttggagcactga	AA120109
20992	acatctgcacttggagcactgaagg	AA120109
20993	ctcatcctctagtttatttacatca	AA120109
20994	atcctctagtttatttacatcattg	AA120109
20995	taactggtcctcatggcgttttcgg	AA120109
20996	ctggtcctcatggcgttttcgggca	AA120109
20997	acactggtggcttccattgtctcca	AA120109
20998	ctggtggcttccattgtctccaaga	AA120109
20999	gtggcttccattgtctccaagatga	AA120109
21000	atgacatcttcagcagccatggtca	AA120109
21001	ggcaacaatggccttaataggcac	W64698
21002	tccccatatacaggcaaatcaacgg	W64698
21003	ccgcagcacaattcctgccaacaaa	W64698
21004	cgcagcacaattcctgccaacaaac	W64698
21005	gcagcacaattcctgccaacaaaca	W64698
21006	cagcacaattcctgccaacaaacaa	W64698
21007	agcacaattcctgccaacaaacaat	W64698
21008	gcacaattcctgccaacaaacaata	W64698
21009	cacaattcctgccaacaaacaataa	W64698
21010	ccccatatacaggcaaatcaacggg	W64698
21011	ctcaggcccagaaccgcagcacaat	W64698
21012	tcaggcccagaaccgcagcacaatt	W64698

SEQ ID NO:	sequence	DBAxnID
63549	gtagcgagctgggcctggattcaat	X52101
63550	attcaataaacacctgtgtcttaca	X52101
63551	tcttacactcctgcctgtcattggg	X52101
63552	tacactcctgcctgtcattgggcgg	X52101
63553	gtggtaccacggagcacaaaggatg	X52101
63554	gtaccacggagcacaaaggatgaca	X52101
63555	aagtctttgtgcctgagtgagcaga	X52101
63556	tctttgtgcctgagtgagcagaggt	X52101
63557	ttgtgcctgagtgagcagaggtcct	X52101
63558	accatctatcagtacagctatggtg	X52101
63559	aacgactacaggctcagtattgtcc	X52101
63560	gactacaggctcagtattgtcctgg	X52101
63561	tacaggctcagtattgtcctggggc	X52101
63562	aggctcagtattgtcctggggccag	X52101
63563	ccatcccagatgtggtattggggaa	X52101
63564	tcttccctgagcccttcattctgag	X52101
63565	agcccttcattctgagctgtagcga	X52101
63566	ccttcattctgagctgtagcgagct	X52101
63567	cttgctcccaatgaaatggataaac	X70398
63568	tctcctcacagaatgttgttgtgtt	X70398
63569	gttaaacaccaatgatgcatgcact	X70398
63570	caccaatgatgcatgcactgtccct	X70398
63571	cacctctgttagggtaggtatatca	X70398
63572	tattgtgcatttgtggcattatgta	X70398
63573	agaattgcagtgtgcgctgccgaaa	X70398
63574	attgcagtgtgcgctgccgaaaatg	X70398
63575	tgcgctgccgaaaatgcaggctttt	X70398
63576	gtcctctcataagtacccaatgtat	X70398
63577	ctctcataagtacccaatgtatttt	X70398
63578	tcataagtacccaatgtattttagc	X70398
63579	tagccagactgaaagcccaccttaa	X70398
63580	cagggcaggccttgttctgaactgt	X70398
63581	tgttctgaactgtttgcgcttctga	X70398
63582	tctgaactgtttgcgcttctgactg	X70398
63583	ctgtttgcgcttctgactgttaaac	X70398
63584	tttgcgcttctgactgttaaacacc	X70398
63585	gcgcttctgactgttaaacaccaat	X70398
63586	actgttaaacaccaatgatgcatgc	X70398
63587	ctataagatggacgctccggatggc	U05247
63588	gaactgctcgcacctggatgctgcc	U05247
63589	ttacagatctggtgccctgctgctt	U05247
63590	tggtgccctgctgcttgctgggcct	U05247
63591	tgccctgctgcttgctgggcctgaa	U05247
63592	cctgctgcttgctgggcctgaactt	U05247
63593	gcttgctgggcctgaacttgaactg	U05247
63594	taggcctggcatcttctctcatgga	U05247
63595	gcctggcatcttctctcatggaccc	U05247
63596	cttctctcatggacccacctatagg	U05247
63597	tcatggacccacctatagggcttgg	U05247
63598	ctatagggcttggggtgcccactga	U05247
63599	ctcgcacctggatgctgccacacgg	U05247
63600	cacgtttttgcagcttcgggaacag	U05247
63601	gcagcttcgggaacagctcgagcac	U05247
63602	gctcgagcacatcaagacccatgag	U05247
63603	catcaagacccatgagctgcacctg	U05247
63604	gacccatgagctgcacctgtgacct	U05247
63605	tgagctgcacctgtgacctctgcct	U05247
63606	acagggcctcggagattacagatct	U05247
63607	gacaagtctctacaccaagccattg	X13460
63608	tctctacaccaagccattgagggtg	X13460
63609	actgtccatccagctggggcactct	X13460
63610	catccagctggggcactctctagcc	X13460
63611	tctagccattgaggtcccaggcggt	X13460
63612	ctggtgaaccacggccatataatgc	X13460
63613	aaccacggccatataatgcattcaa	X13460
63614	ataatgcattcaactctgatcccct	X13460
63615	ctccacataaccctgcctgacttga	X13460
63616	ctgcctgacttgagctttgtcacat	X13460

SEQ ID NO	sequence	DBAxnID
106153	tggtgctgactatccagttgatggg	M90364
106154	tgactatccagttgatgggctgcct	M90364
106155	tccagttgatgggctgcctgatctg	M90364
106156	gctgcctgatctgggacacgcccag	M90364
106157	gggacacgcccaggacctcatggat	M90364
106158	cgcccaggacctcatggatgggctg	M90364
106159	tcagctggcctggtttgatactgac	M90364
106160	ggccctggtcttcgacaacaagcac	W34429
106161	ggtcttcgacaacaagcacacgaac	W34429
106162	tgccaagggatcacccaggagcaga	W34429
106163	gggatcacccaggagcagatgaatg	W34429
106164	aatgagttcagagcctccttcaacc	W34429
106165	gagttcagagcctccttcaaccact	W34429
106166	gcctccttcaaccactttgacagga	W34429
106167	tccttcaaccactttgacaggagga	W34429
106168	gatttcagagcctgcctcatttcca	W34429
106169	ttcagagcctgcctcatttccatgg	W34429
106170	gcctgcctcatttccatgggctatg	W34429
106171	ctcatttccatgggctatgacttgg	W34429
106172	cgacaacaagcacacgaactacacc	W34429
106173	tccatgggctatgacttgggtgaag	W34429
106174	caagcacacgaactacaccatggag	W34429
106175	gcacacgaactacaccatggagcat	W34429
106176	gctgctgacaactatcgccagaacc	W34429
106177	gacaactatcgccagaaccatcaat	W34429
106178	ggagacccagatcctgacaagagat	W34429
106179	gacccagatcctgacaagagatgcc	W34429
106180	ccagatcctgacaagagatgccaag	W34429
106181	catcatgcagaggttgctgttcagt	W29670
106182	tacacatatccagagggaaggtcta	W29670
106183	gggctcagcttatgtgttgtaaatt	W29670
106184	gtaaattctggaggctcgcttagct	W29670
106185	tctggaggctcgcttagctgcggtc	W29670
106186	ggctcgcttagctgcggtctgagca	W29670
106187	tcgcttagctgcggtctgagcatcc	W29670
106188	cttagctgcggtctgagcatccggg	W29670
106189	ttcctcttcctcagttcgcttgggt	W29670
106190	ttcctcagttcgcttgggtttcaga	W29670
106191	agacttcaagaagcggctgtagctg	W29670
106192	cttcaagaagcggctgtagctgtca	W29670
106193	aggtctagcacactccagtcctcaa	W29670
106194	aaatgacagcctgtacagtcctaag	W29670
106195	tgacagcctgtacagtcctaagagt	W29670
106196	cagcctgtacagtcctaagagtcca	W29670
106197	cctgtacagtcctaagagtccatcc	W29670
106198	gtacagtcctaagagtccatccctc	W29670
106199	ctccttcgctggggtgaagggctca	W29670
106200	cttcgctggggtgaagggctcagct	W29670
106201	tgagagcaacccaatgcccgctgtg	L31532
106202	gagcaacccaatgcccgctgtgcac	L31532
106203	gtcacccctggtggacaacatcgcc	L31532
106204	ggacaacatcgccctgtggatgact	L31532
106205	catcgccctgtggatgactgagtac	L31532
106206	gactgagtacctgaaccggcatctg	L31532
106207	cctgaaccggcatctgcacacctgg	L31532
106208	ccggcatctgcacacctggatccag	L31532
106209	tctgcacacctggatccaggataac	L31532
106210	gcacacctggatccaggataacgga	L31532
106211	cacctggatccaggataacggaggc	L31532
106212	tgcatgtctggttgaatgagtctgg	L31532
106213	aatgcccgctgtgcaccgggagatg	L31532
106214	tgcgctcagccctgtgccaccatgt	L31532
106215	gctcagccctgtgccaccatgtgtc	L31532
106216	cagccctgtgccaccatgtgtccat	L31532
106217	tcgtcgctaccgtcgtgacttcgca	L31532
106218	tcgctaccgtcgtgacttcgcagag	L31532
106219	tgacttcgcagagatgtccagtcag	L31532
106220	gatgtccagtcagctgcacctgacg	L31532

TABLE 1

SEQ ID NO	sequence	DBAxnID
21013	cagaaccgcagcacaattcctgcca	W64698
21014	agaaccgcagcacaattcctgccaa	W64698
21015	gaaccgcagcacaattcctgccaac	W64698
21016	aaccgcagcacaattcctgccaaca	W64698
21017	accgcagcacaattcctgccaacaa	W64698
21018	aatcaagagcagcgcggccaggagc	U22399
21019	ccaggacgtcctgcacccgggactg	U22399
21020	cctttcgttcatgtagcaggaaccg	U22399
21021	tgcgtagagcagcccacggttttgt	U22399
21022	gtagagcagcccacggttttgtgga	U22399
21023	gagcagcccacggttttgtggaaat	U22399
21024	tgagaacactctgtaccatgtgcaa	U22399
21025	tctgtaccatgtgcaaggagtacgc	U22399
21026	atgtttaatctctactcgctctcag	U22399
21027	tttaatctctactcgctctcagtgc	U22399
21028	aatctctactcgctctcagtgcaaa	U22399
21029	ctctactcgctctcagtgcaaaaca	U22399
21030	gcggccaatgcgaacgacttcttcg	U22399
21031	gccaatgcgaacgacttcttcgcca	U22399
21032	gcgaacgacttcttcgccaagcgca	U22399
21033	ttcttcgccaagcgcaagagaactg	U22399
21034	ccgcgcaaacgtctgagatgagtta	U22399
21035	catctgggcagcggacgatggaaga	U22399
21036	cttcggctgggacctttcgttcatg	U22399
21037	ctgggacctttcgttcatgtagcag	U22399
21038	taaggcgcacagcttcctgcaggct	W64759
21039	aaggcgcacagcttcctgcaggctg	W64759
21040	gctgccccgaaaggtcgggaagctg	W64759
21041	aagctgagctacgcagactttgtat	W64759
21042	gctgagctacgcagactttgtatgg	W64759
21043	ctgagctacgcagactttgtatggt	W64759
21044	gagctacgcagactttgtatggttc	W64759
21045	agctacgcagactttgtatggttcc	W64759
21046	ctacgcagactttgtatggttcctg	W64759
21047	tacgcagactttgtatggttcctgc	W64759
21048	cagactttgtatggttcctgctctc	W64759
21049	agactttgtatggttcctgctctcc	W64759
21050	ggcgcacagcttcctgcaggctgtg	W64759
21051	gacgtcgttcttctcttatgagcat	W64759
21052	acgtcgttcttctcttatgagcatt	W64759
21053	gtcgttcttctcttatgagctttc	W64759
21054	cttctcttatgagcatttctatgtc	W64759
21055	ttctcttatgagcatttctatgtca	W64759
21056	ctcttatgagcatttctatgtcatc	W64759
21057	gcatttctatgtcatctactgcaag	W64759
21058	gatctctcaagtccaggataacagg	W64787
21059	ctctcaagtccaggataacaggttc	W64787
21060	aagcccgatgatctgtgatgtcctt	W64787
21061	tgatgtccttcgcaatgtaggaaat	W64787
21062	tgtccttcgcaatgtaggaaatttc	W64787
21063	tttcatgaacagcatggtgatgctg	W64787
21064	ccgtcttctcatcaaagattttgat	W64787
21065	tcttctcatcaaagattttgattcc	W64787
21066	agattttgattcctccaaaggagat	W64787
21067	ttttgattcctccaaaggagatggt	W64787
21068	tgattcctccaaaggagatggttaa	W64787
21069	tgtgttctcccttggaacgtgcgcc	W64787
21070	cagccgcctgggctgttttgatggc	W64787
21071	aacacccttgagcttcatcatggaa	W64787
21072	ccgcctgggctgttttgatggccac	W64787
21073	ttttgatggccacaaatctgtgatt	W64787
21074	tgatggccacaaatctgtgattccc	W64787
21075	atctgtgattcccttccttcccgca	W64787
21076	cgcaaacgtatccgaaagcccgatg	W64787
21077	atccgaaagcccgatgatctgtgat	W64787
21078	cgaaagcccgatgatctgtgatgtc	W64787
21079	gaaccccactgaggcggagctgcag	M19380
21080	ccactgaggcggagctgcaggacat	M19380

SEQ ID NO:	sequence	DBAxnID
63617	agctttgtcacatctcaagacatac	X13460
63618	gtcacatctcaagacataccaactc	X13460
63619	caccaagccattgagggtgacacct	X13460
63620	ctcaagacataccaactctgtctat	X13460
63621	gacacctctggagacttcatgaagg	X13460
63622	gctttgcttgctctgtgtggcggag	X13460
63623	taaggctcctgacctcagagggccc	X13460
63624	gccgtgacctgaccaagccattgct	X13460
63625	acctgaccaagccattgctccagct	X13460
63626	ccaagccattgctccagcttcaggg	X13460
63627	cattgctccagcttcagggtctaag	X13460
63628	ctgtatccccgaggtctacagatcg	AA060704
63629	cgaggtctacagatcgcccagtaat	AA060704
63630	gcccagtaatgtcatccaagtctat	AA060704
63631	ataagccaatggctgtacggtgaaa	AA060704
63632	taagccaatggctgtacggtgaaat	AA060704
63633	gatcagccagactaaccgccatcct	AA060704
63634	atcagccagactaaccgccatcctg	AA060704
63635	cagccagactaaccgccatcctgag	AA060704
63636	agccagactaaccgccatcctgaga	AA060704
63637	ccagactaaccgccatcctgagata	AA060704
63638	cagactaaccgccatcctgagatac	AA060704
63639	actaaccgccatcctgagatacatc	AA060704
63640	aggtctacagatcgcccagtaatgt	AA060704
63641	tctacagatcgcccagtaatgtcat	AA060704
63642	ctacagatcgcccagtaatgtcatc	AA060704
63643	acagatcgcccagtaatgtcatcca	AA060704
63644	cagatcgcccagtaatgtcatccaa	AA060704
63645	gatcgcccagtaatgtcatccaagt	AA060704
63646	atcgcccagtaatgtcatccaagtc	AA060704
63647	cgcccagtaatgtcatccaagtcta	AA060704
63648	agaacagcgcttcaacagcttcctg	X66323
63649	acagcgcttcaacagcttcctggaa	X66323
63650	actccaggtctctacagagtgacca	X66323
63651	ccaggtctctacagagtgaccataa	X66323
63652	ctctacagagtgaccataaggacat	X66323
63653	accgaattcggccgattcagcttgg	X66323
63654	gaattcggccgattcagcttggact	X66323
63655	ttcggccgattcagcttggacttaa	X66323
63656	ggccgattcagcttggacttaacca	X66323
63657	cgattcagcttggacttaaccaggc	X66323
63658	agcttggacttaaccaggctgaact	X66323
63659	ttggacttaaccaggctgaacttgc	X66323
63660	cttcaacagcttcctggaagccctt	X66323
63661	tggacttaaccaggctgaacttgct	X66323
63662	caacagcttcctggaagcccttcga	X66323
63663	cagcttcctggaagcccttcgagag	X66323
63664	aatccaagagtgccagctctgtgct	X66323
63665	tggcagcatccctgaggccgtgcag	X66323
63666	acgtcatcctagcagacaacttggg	X66323
63667	gaatgagtcactccaggtctctaca	X66323
63668	tgagtcactccaggtctctacagag	X66323
63669	cagggtgcacctgcatctaagtcct	X60664
63670	gcacctgcatctaagtcctgttgca	X60664
63671	tctctatgtagactgggctggcctc	X60664
63672	tctgtgtcctgagttctgagttaat	X60664
63673	taagcaagcaccatcacacagggac	X60664
63674	agcaccatcacacagggacttagag	X60664
63675	aaagtctatcgagtctagcctaata	X60664
63676	tatcgagtctagcctaatattctag	X60664
63677	gtctagcctaatattctagacttca	X60664
63678	cctaatattctagacttcatatact	X60664
63679	attctagacttcatatactgacttg	X60664
63680	gacttcatatactgacttgataatt	X60664
63681	gcatctaagtcctgttgcatccagt	X60664
63682	aagtcctgttgcatccagtagctga	X60664
63683	atccagtagctgactgcactgcagc	X60664
63684	gaggtcaccctggcactggacagtt	X60664

SEQ ID NO:	sequence	DBAxnID
106221	aagtgagctgtgctgtggctcccgc	W09791
106222	tcccgcggctgactggctgagtgac	W09791
106223	agaatcgccggctgtaccgcagtcc	W09791
106224	aatcgccggctgtaccgcagtccta	W09791
106225	cggctgtaccgcagtcctattcagt	W09791
106226	ggctgtaccgcagtcctattcagtg	W09791
106227	gctgtaccgcagtcctattcagtgc	W09791
106228	ctgtaccgcagtcctattcagtgct	W09791
106229	tgtaccgcagtcctattcagtgctg	W09791
106230	gtaccgcagtcctattcagtgctga	W09791
106231	taccgcagtcctattcagtgctgat	W09791
106232	accgcagtcctattcagtgctgatg	W09791
106233	ccccggcaaggcattctggctgcag	W09791
106234	ccggcaaggcattctggctgcagat	W09791
106235	agatgagtccgtagcagcatggcaa	W09791
106236	gatgagtccgtagcagcatggcaaa	W09791
106237	atgagtccgtagcagcatggcaaaa	W09791
106238	tgagtccgtagcagcatggcaaaag	W09791
106239	gagtccgtagcagcatggcaaaagg	W09791
106240	gagaatcgccggctgtaccgcagtc	W09791
106241	tcccccgaaagatgctcctggcttc	M90397
106242	gaaagatgctcctggcttccccgcg	M90397
106243	actgagcacagatcctcccaatcgc	M90397
106244	ttaatctcaggcacccaggttccct	M90397
106245	tcaggcacccaggttccctgtctgg	M90397
106246	gttccctgtctggaatccaccagat	M90397
106247	tgtctggaatccaccagatactcaa	M90397
106248	gaatccaccagatactcaattcttt	M90397
106249	tccaccagatactcaattctttgag	M90397
106250	accagatactcaattctttgagtgg	M90397
106251	tactcaattctttgagtggaggaac	M90397
106252	tcaattctttgagtggaggaaccaa	M90397
106253	agatgctcctggcttccccgcgact	M90397
106254	agctccaggaagcagctgagacgga	M90397
106255	tgcaccaaggcacatgcacatacta	M90397
106256	accaaggcacatgcacatactactg	M90397
106257	aaggcacatgcacatactactgagc	M90397
106258	catgcacatactactgagcacagat	M90397
106259	gcacatactactgagcacagatcct	M90397
106260	catactactgagcacagatcctccc	M90397
106261	caggcttcagaagccacaggtggtc	AA050644
106262	gcttcagaagccacaggtggtcgaa	AA050644
106263	gcacgatcaaggactcggttggctg	AA050644
106264	cgatcaaggactcggttggctgcct	AA050644
106265	tcaaggactcggttggctgcctggg	AA050644
106266	tgctctccctgaggtcacctagagc	AA050644
106267	tgaggtcacctagagctcgcagagg	AA050644
106268	ggtcacctagagctcgcagaggcaa	AA050644
106269	ctagagctcgcagaggcaaggcccg	AA050644
106270	acgtacagtcatcccaggaacctga	AA050644
106271	tacagtcatcccaggaacctgaggc	AA050644
106272	cacccagagatgtggccctttaca	AA050644
106273	tcagaagccacaggtggtcgaaggg	AA050644
106274	gccacaggtggtcgaagggtctcaa	AA050644
106275	gtctcaaaggccctaatggcctcca	AA050644
106276	aaggccctaatggcctccatggctc	AA050644
106277	gcctccatggctcgcagacttcaag	AA050644
106278	tccatggctcgcagacttcaagggg	AA050644
106279	atggctcgcagacttcaaggggacc	AA050644
106280	ccatagccttttgggcccgcacgat	AA050644
106281	ccttgcgaccgaaccaggtcattcg	M22531
106282	agaactatgagccacgcaacggcaa	M22531
106283	acctgcaggccacagacaagaactc	M22531
106284	gtgccaacagcatcttcactggctt	M22531
106285	acagcatcttcactggctttctgct	M22531
106286	tcttcactggctttctgcttttccc	M22531
106287	ttttccctgacatggatgcgtaatc	M22531
106288	gtcaaattacacctatccaacacca	M22531

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID
21081	gtacccggttctagcaaacagcaat	M19380	63685	gtggcaaacacagcaggcatctata	X60664	106289	cttgactgcctgaaacccagaccag	M22531
21082	acccggttctagcaaacagcaattg	M19380	63686	aacacagcaggcatctatatcatca	X60664	106290	tgcctgaaacccagaccagagccct	M22531
21083	cccggttctagcaaacagcaattga	M19380	63687	atctatatcatcaaatggtcttaga	X60664	106291	aaacccagaccagagccctgtagat	M22531
21084	ttctagcaaacagcaattgattgac	M19380	63688	tggaactctctatgtagactgggct	X60664	106292	agaccagagccctgtagatgttaca	M22531
21085	atctgataaagcaccaaaagatttg	M19380	63689	agagtccgtccagctgcgttctctt	AA059554	106293	atgagccacgcaacggcaagttcac	M22531
21086	gatttgtcccaagctgcatgactgc	M19380	63690	tcttctaggtcgccagctccaaatg	AA059554	106294	cacgcaacggcaagttcacctgcaa	M22531
21087	tttgtcccaagctgcatgactgctc	M19380	63691	catgtgtactcgaactgagcgctgg	AA059554	106295	gccgcgatcgggacagcatgcagaa	M22531
21088	gtcccaagctgcatgactgctcccg	M19380	63692	tactcgaactgagcgctggttttc	AA059554	106296	aagtagtcaccttctgtgactatgc	M22531
21089	tcccaagctgcatgactgctcccgg	M19380	63693	gaaaccggaaagctcctcagactct	AA059554	106297	tcaccttctgtgactatgcccagaa	M22531
21090	ccaagctgcatgactgctcccggaa	M19380	63694	ggaaagctcctcagactctgttttg	AA059554	106298	actatgcccagaacaccttccaggt	M22531
21091	cactgaggcggagctgcaggacatg	M19380	63695	aagctcctcagactctgttttgtgg	AA059554	106299	acaccttccaggtgaccacaggtgg	M22531
21092	aagctgcatgactgctcccggaatt	M19380	63696	ctcctcagactctgttttgtggctg	AA059554	106300	ttgttcacctgcaggccacagacaa	M22531
21093	tgaccatgatggccagaaagatgaa	M19380	63697	gagtcagcagcgagccctggaaggt	AA059554	106301	atcgaattctgactctcacaaccaa	M86441
21094	agatgatccgagaggccgacattga	M19380	63698	agccctggaaggtcccatggtctgt	AA059554	106302	ttctgactctcacaaccaatgagga	M86441
21095	agctgccatgcccgttctcctgatc	M19380	63699	ggaaggtcccatggtctgttaacat	AA059554	106303	gtctgcctcagtatccacacataaa	M86441
21096	gctgccatgcccgttctcctgatct	M19380	63700	aggtcccatggtctgttaacattca	AA059554	106304	ctcagtatccacacataaacggcag	M86441
21097	tgccatgcccgttctcctgatctct	M19380	63701	tctaggtcgccagctccaaatgtcc	AA059554	106305	atgtgtcttcctgtccccaaacagg	M86441
21098	gccatgcccgttctcctgatctctt	M19380	63702	aggtcgccagctccaaatgtccagg	AA059554	106306	gtccccaaacaggacagcaccagga	M86441
21099	tgcgtacccggttctagcaaacagc	M19380	63703	gctccaaatgtccaggccagaatga	AA059554	106307	accaggaacctacttacactgagca	M86441
21100	actttattcactcagaagggccaag	W64800	63704	ccaaatgtccaggccagaatgacgt	AA059554	106308	aacctacttacactgagcagagagg	M86441
21101	ctttattcactcagaagggccaagg	W64800	63705	gtccaggccagaatgacgtgaaaag	AA059554	106309	cttacactgagcagagaggctgtgc	M86441
21102	acaattcaggtgccagtcccaagtg	W64800	63706	gctacctgtgtaatccatgtgtact	AA059554	106310	gctgtgctccagagcctgtgacacg	M86441
21103	aattcaggtgccagtcccaagtgcc	W64800	63707	acctgtgtaatccatgtgtactcga	AA059554	106311	agcctgtgacacgcctccacttgta	M86441
21104	attcaggtgccagtcccaagtgccc	W64800	63708	atccatgtgtactcgaactgagcgc	AA059554	106312	tgacacgcctccacttgtatatatg	M86441
21105	ttcaggtgccagtcccaagtgcccc	W64800	63709	aagctcttcacacgttcaagtcacg	X75959	106313	aatacttggatctcacccagcctct	M86441
21106	aggtgccagtcccaagtgccctcg	W64800	63710	ttcacacgttcaagtcacgacagca	X75959	106314	agcctctcgaacagtattctcctag	M86441
21107	ctgtggcactggcgggtagcttgaa	W64800	63711	gcaacatcttaatgcccagctggcg	X75959	106315	caagtagctcttgttcttcagggga	M86441
21108	tggcactggcgggtagcttgaagtc	W64800	63712	gctggcgcaacagcccgctgtttgc	X75959	106316	gctcttgttcttcaggggacgattc	M86441
21109	gcactggcgggtagcttgaagtctc	W64800	63713	ttggactgcttccatgttagtaacc	X75959	106317	gttcttcaggggacgattctgtgtt	M86441
21110	ctcggccgcagcccgcgcagatgta	W64800	63714	catgttagtaaccgctcctcaagag	X75959	106318	ctgtgttttctccagaccccatgcc	M86441
21111	cgcagcccgcgcagatgtagaggcg	W64800	63715	tgaaaggctattccctctcatccaa	X75959	106319	cagaccccatgccttatgaaccctg	M86441
21112	tttattcactcagaagggccaaggg	W64800	63716	taagatcacgggcatgttgctggac	X75959	106320	cttatgaaccctgtctgcctcagta	M86441
21113	cactcagaagggccaagggaatgta	W64800	63717	ggaaccacttcgtatgcttgaatct	X75959	106321	tgccaagccttaggcccatcctctt	M60510
21114	gaccccggtatggcattccctatct	W64800	63718	acttcgtatgcttgaatctccagtg	X75959	106322	cccatcctctttaagaccgactgca	M60510
21115	ggtatggcattccctatctcccagt	W64800	63719	ggctgcccagaaagctgttggcagt	X75959	106323	tgccactctcaggagattccacctc	M60510
21116	gtatggcattccctatctcccagtc	W64800	63720	agctgttggcagtacctctggtgtc	X75959	106324	gcagccttgtggcataccaggagat	M60510
21117	tatggcattccctatctcccagtcc	W64800	63721	agtcacgacagcacatcgcattact	X75959	106325	agccttgtggcataccaggagatga	M60510
21118	ccaggtgcaggcatggaaggaacaa	W64800	63722	gacagcacatcgcattactaacaca	X75959	106326	ccttgtggcataccaggagatgatg	M60510
21119	gaacaattcaggtgccagtcccaag	W64800	63723	acatcgcattactaacacatcagca	X75959	106327	tgatggcggctgcaggttgcataga	M60510
21120	ttaatacactgtttgggctggccag	X61432	63724	cattactaacacatcagcacagata	X75959	106328	aagtggctccacatagaaaaacctg	M60510
21121	tggccagtttctcatgcatgcagct	X61432	63725	agctacagcgactcctgttcactcg	X75959	106329	ggctccacatagaaaaacctgctcc	M60510
21122	taggacagtcctcatcaagtgcccc	X61432	63726	tcactcgattccacagtacaagtat	X75959	106330	acctgctccccaaatagtgcaaata	M60510
21123	catcaagtgccccagtcccatggtg	X61432	63727	gattccacagtacaagtatgctgca	X75959	106331	ctgctccccaaatagtgcaaatacc	M60510
21124	cagtcccatggtgacagtgactccc	X61432	63728	ccagaactcccagcaacatcttaat	X75959	106332	gctccccaaatagtgcaaataccca	M60510
21125	gcgagcccgagtgtgatggttcatt	X61432	63729	gcatcttcaagtgccaaaagtttaa	X16490	106333	catcctctttaagaccgactgcaaa	M60510
21126	acctagtgaaccatgactcggagcc	X61432	63730	atacttctgctatacactaaatata	X16490	106334	tcctctttaagaccgactgcaaaag	M60510
21127	tgaaccatgactcggagccagagag	X61432	63731	ctttcccatgatattcacccagaaa	X16490	106335	aaggtaacagcagtcctccagcttt	M60510
21128	cttgagcacaccatcaacattgctg	X61432	63732	tcatatgtacgtatctgcaactcat	X16490	106336	cctgctgtaactgggttagagaact	M60510
21129	cacaccatcaacattgctgttcagg	X61432	63733	gtacgtatctgcaactcatctataa	X16490	106337	gaactggcattgccactctcaggag	M60510
21130	atcaacattgctgttcaggaaatga	X61432	63734	atctgcaactcatctataattagga	X16490	106338	actggcattgccactctcaggagat	M60510
21131	acgtccattccaagttgtaaatgct	X61432	63735	tgcaactcatctataattaggacta	X16490	106339	tggcattgccactctcaggagattc	M60510
21132	catgcatgcagcttgatgattgagc	X61432	63736	aactcatctataattaggactacat	X16490	106340	attgccactctcaggagattccacc	M60510
21133	attgagcacagtcaggcattgtatt	X61432	63737	acttacacactgctatctgttgtat	X16490	106341	cccagatgcctctgcagaagctact	AA140068
21134	aattcaaaatctcagatggcttcta	X61432	63738	tacacactgctatctgttgtataaa	X16490	106342	tgcctctgcagaagctactgttctc	AA140068
21135	aaatctcagatggcttctagttcaa	X61432	63739	ttatctttctatcactgtaacaaaa	X16490	106343	ggctcacgcatcactatgtgccgtg	AA140068
21136	agttcaatctgttcagataaattgt	X61432	63740	cactgtaacaaaatacctgagataa	X16490	106344	cgcatcactatgtgccgtgtagact	AA140068
21137	aaattgtcagcagccagtttactgc	X61432	63741	attgtatagcagtcttcagtgctta	X16490	106345	actatgtgccgtgtagactcagctc	AA140068
21138	aactctgagacacagccccagaagt	X61432	63742	gtatagcagtcttcagtgcttacag	X16490	106346	gtagactcagctcgaagccactcat	AA140068
21139	gagacacagccccagaagtaggaca	X61432	63743	tagcagtcttcagtgcttacagtat	X16490	106347	tcagctcgaagccactcattgtctt	AA140068
21140	tgcctcgacattttacttgccttta	L36179	63744	tgtttcctaaagtcagatgatgtct	X16490	106348	cgaagccactcattgtcttacacct	AA140068
21141	cctttcaaaatcacttatgagccga	L36179	63745	caaattgttgtcctctgtttaatga	X16490	106349	ttgtcttacacctggtcctcaggat	AA140068
21142	aaaggtgctcactctggcaaaatcg	L36179	63746	tatgagtcttccatactttcccatg	X16490	106350	tacacctggtcctcaggatgagctg	AA140068
21143	aaggcatctattcagacccagattt	L36179	63747	tcttccatactttcccatgatattc	X16490	106351	tggtcctcaggatgagctgctcaag	AA140068
21144	tctttacatatgtccccaagcacta	L36179	63748	atactttcccatgatattcacccag	X16490	106352	gctcaagggctctttgcttcaccaa	AA140068
21145	catatgtccccaagcactaaatgtt	L36179	63749	attgttaactacatcatgtgaactt	Z48043	106353	tgcagaagctactgttctcagccac	AA140068
21146	tccccaagcactaaatgttaactga	L36179	63750	gttaactacatcatgtgaacttaag	Z48043	106354	agctactgttctcagccacactgac	AA140068
21147	taactgatcttaagctggagatcag	L36179	63751	cactaatttgtccaataatggaatt	Z48043	106355	tgttctcagccacactgacccagga	AA140068
21148	aacatctgtgtgcccagacatctcc	L36179	63752	aattaacgtcttctcatctgtttga	Z48043	106356	cactgacccaggaccccgagaagct	AA140068

TABLE 1

SEQ ID NO	sequence	DBAxnID
21149	cccagacatctccatgacaagctca	L36179
21150	catctccatgacaagctcagcttta	L36179
21151	catgacaagctcagctttagggtca	L36179
21152	tcagcaaccatcatccagcgtgcat	L36179
21153	aagacagcagctcagcgttgctgcg	L36179
21154	accatcatccagcgtgcatataaaa	L36179
21155	atccagcgtgcatataaaagctacc	L36179
21156	gtatcagatactcctgctatagatg	L36179
21157	gatactcctgctatagatgaccgca	L36179
21158	cctgctatagatgaccgcagagatg	L36179
21159	gatcttacttctaaaggtgctcact	L36179
21160	acttctaaaggtgctcactctggca	L36179
21161	ccgcactccagattcactcatgcag	W64865
21162	cgcactccagattcactcatgcagt	W64865
21163	acgtttcactcgctcacgtttcaca	W64865
21164	ccatgtcgacacccgaaaccagaag	W64865
21165	tgtcgacacccgaaaccagaagctg	W64865
21166	acacccgaaaccagaagctgcacac	W64865
21167	cacccgaaaccagaagctgcacaca	W64865
21168	cccgaaaccagaagctgcacacacg	W64865
21169	ccgaaaccagaagctgcacacacgc	W64865
21170	agaagctgcacacacgcgactcgac	W64865
21171	gaagctgcacacacgcgactcgaca	W64865
21172	agctgcacacacgcgactcgacaca	W64865
21173	cactccagattcactcatgcagttt	W64865
21174	ccagattcactcatgcagtttgcaa	W64865
21175	agattcactcatgcagtttgcaaac	W64865
21176	ttcactcatgcagtttgcaaacaac	W64865
21177	tcactcatgcagtttgcaaacaacc	W64865
21178	actcatgcagtttgcaaacaaccgt	W64865
21179	tgcaaacaaccgtcaacgtcctgag	W64865
21180	gcaaacaaccgtcaacgtcctgagc	W64865
21181	gaccgagcacgaatgaccgtggacg	D10011
21182	gcgccgactgactgcagggacgcga	D10011
21183	tgcgcctcctagtggacttgagcaa	D10011
21184	gcctcctagtggacttgagcaaggg	D10011
21185	acttgagcaagggtgtcgcggacgc	D10011
21186	tcgcggacgccgcattctatccgca	D10011
21187	ccgcattctatccgcaccgtggcgg	D10011
21188	cgaggactctaagggccgcggactg	D10011
21189	gctgctcccggagttggaaagcggt	D10011
21190	gcccagatgccccaagacttgacac	D10011
21191	cagatgccccaagacttgacacggc	D10011
21192	gacttgacacggctctccacacttc	D10011
21193	actgactgcagggacgcgatgcgcc	D10011
21194	gactgcagggacgcgatgcgcccca	D10011
21195	atgcgccccagacggacaggacgcc	D10011
21196	cggacaggacgccgcgattttgcct	D10011
21197	ggacgccgcgattttgccttcaatt	D10011
21198	tttgccttcaattcctggtgaagtc	D10011
21199	gccttcaattcctggtgaagtccga	D10011
21200	ttcaattcctggtgaagtccgagcc	D10011
21201	acacagtcatgtgcacagaacaagg	D10056
21202	actggacccgattgccagaatgcct	D10056
21203	acaagctggacggcccagaagaagc	D10056
21204	gaacttggtccttcttgccgacctg	D10056
21205	cttggtccttcttgccgacctgtag	D10056
21206	ggtccttcttgccgacctgtagaga	D10056
21207	atgcatcagaactgacaccgtgctg	D10056
21208	tgacaccgtgctgaagtcgtttcca	D10056
21209	caccgtgctgaagtcgtttccagaa	D10056
21210	cgtgctgaagtcgtttccagaatca	D10056
21211	gtcgtttccagaatcaaaattgaat	D10056
21212	tgtcttaggaatccatctgaaatag	D10056
21213	ggacccgattgccagaatgcctgga	D10056
21214	cccgattgccagaatgcctggaagt	D10056
21215	tgccagaatgcctggaagtaaaatg	D10056
21216	atcctgcaaagccggtgcttctata	D10056

SEQ ID NO:	sequence	DBAxnID
63753	cttctcatctgtttgaggaagatct	Z48043
63754	gagtacatggctccaggcttacttt	Z48043
63755	tacatggctccaggcttactttata	Z48043
63756	atggctccaggcttactttatatac	Z48043
63757	gctccaggcttactttatatactgc	Z48043
63758	ctttatatactgcctgtatttgtgg	Z48043
63759	tatatactgcctgtatttgtggctt	Z48043
63760	atactgcctgtatttgtggctttaa	Z48043
63761	agtgtcagttttccctcatcctcga	Z48043
63762	tcatcctcgatcatagtccttcccg	Z48043
63763	atcatagtccttcccgtgaagcagg	Z48043
63764	ccaccagatagtcccctgtctgctt	Z48043
63765	gatagtcccctgtctgctttaacct	Z48043
63766	ctgtctgctttaacctaccagttag	Z48043
63767	tttgttcactaatttgtccaataat	Z48043
63768	gttcactaatttgtccaataatgga	Z48043
63769	tgactgcctgcctcacttacggcaa	AA061050
63770	cctgcctcacttacggcaacagctg	AA061050
63771	actaccgtgagtacctgcgtggccg	AA061050
63772	agtacctgcgtggccgccagcggtc	AA061050
63773	gccgccagcggtcactgggtagcag	AA061050
63774	gcccatggagtgctggcagcttcct	AA061050
63775	aggactcgggccgctcactgtcctc	AA061050
63776	ccaacagccaacaggccacagagac	AA061050
63777	acagccaacaggccacagagaccct	AA061050
63778	gccaacaggccacagagaccctcgt	AA061050
63779	tcgtgctgtctccagttccccctaa	AA061050
63780	tgctgtctccagttccccctaatgg	AA061050
63781	tcacttacggcaacagctgcatcaa	AA061050
63782	cttacggcaacagctgcatcaatcc	AA061050
63783	acggcaacagctgcatcaatccctt	AA061050
63784	tcctctacactctgctcaccaagaa	AA061050
63785	acactctgctcaccaagaactaccg	AA061050
63786	ctctgctcaccaagaactaccgtga	AA061050
63787	ccaagaactaccgtgagtacctgcg	AA061050
63788	agaactaccgtgagtacctgcgtgg	AA061050
63789	aatgaaataacctctagcattagaa	X59358
63790	ataacctctagcattagaaacacat	X59358
63791	gcctgtagctgatcttgcccctaac	X59358
63792	tcttgcccctaactgtgaattgtcc	X59358
63793	attgtcccagcatgacctaaaaagc	X59358
63794	ctgcgtgtgtttccttacaggtgcc	X59358
63795	gtgtttccttacaggtgcctttcat	X59358
63796	aggtgcctttcattatctcaagcca	X59358
63797	ctttcattatctcaagccagatatt	X59358
63798	ttatctcaagccagatattgcataa	X59358
63799	ctgtccacttggagccctgtttccg	X59358
63800	ggcctccacagactagacatgaaga	X59358
63801	aacacatgttcttaatgaggtcagc	X59358
63802	tgttcttaatgaggtcagcgccagg	X59358
63803	taatgaggtcagcgccaggatcata	X59358
63804	ggtcagcgccaggatcatatgggga	X59358
63805	tattagtctcgatcctttgataccg	X59358
63806	tctcgatcctttgataccgtggtat	X59358
63807	atgacattgtcagcctgtagctgat	X59358
63808	ttgtcagcctgtagctgatcttgcc	X59358
63809	cactgcctgggacacagccattgcg	AA060840
63810	cacagccattgcgcctctggatggt	AA060840
63811	ccactgagcatgcaccattttgtaa	AA060840
63812	actgagcatgcaccattttgtaagg	AA060840
63813	tgagcatgcaccattttgtaaggaa	AA060840
63814	agcatgcaccattttgtaaggaaga	AA060840
63815	catgcaccattttgtaaggaagaaa	AA060840
63816	tgcaccattttgtaaggaagaaatt	AA060840
63817	gaagaaattcctcaagctggccctc	AA060840
63818	tcctcaagctggccctccgggaact	AA060840
63819	gaattccgttgcaagacttgtggtt	AA060840
63820	tccgttgcaagacttgtggttacag	AA060840

SEQ ID NO	sequence	DBAxnID
106357	cccaggaccccgagaagctgcagcg	AA140068
106358	accagccacggcttttctccacaag	AA140068
106359	cacggcttttctccacaaggctggg	AA140068
106360	aaagtcctaaagacacagctgaggt	AA140068
106361	ttgcagcatctgcaggtctgttttc	M81086
106362	ctgcaggtctgttttctgtcccatg	M81086
106363	cctcacagagactttggccagtgcc	M81086
106364	ggagatacaccagaccttggaccag	M81086
106365	gacccttctggaactcaacaacctg	M81086
106366	caacaacctgtaagggctggccctg	M81086
106367	ggccctgctgcctaccagactacat	M81086
106368	cctgctgcctaccagactacatagt	M81086
106369	taccagactacatagttgcctcctc	M81086
106370	cagactacatagttgcctcctcggg	M81086
106371	actacatagttgcctcctcgggcca	M81086
106372	ttgcctcctcgggccaataaactga	M81086
106373	tttctgtcccatgtctgtctgacct	M81086
106374	cccagccaaggcctagagcaagatt	M81086
106375	cccggtctcttaacatgactcaggt	M81086
106376	aacacatctcaggtctcctaacatg	M81086
106377	acatctcaggtctcctaacatgtcc	M81086
106378	tcccaggtccataagtgtctcctaa	M81086
106379	aagtgtctcctaacattcctaacat	M81086
106380	tgtctcctaacattcctaacatggt	M81086
106381	gcccatacaatcctcctgatctgga	M63284
106382	acaatcctcctgatctggaagaagc	M63284
106383	ttcccaactcaagactcttctgcta	M63284
106384	gactcttctgctatcgatccacact	M63284
106385	tctgctatcgatccacactgccact	M63284
106386	atcgatccacactgccactaaaatt	M63284
106387	acttactgccgttaagagactgcag	M63284
106388	ctgcttataattcacgctaagataa	M63284
106389	aggatgcatcatctcggtgatgata	M63284
106390	catcatctcggtgatgataaaccag	M63284
106391	gacttgtaccaacctgtcaaagatg	M63284
106392	taccaacctgtcaaagatgatgctt	M63284
106393	ctgccaaaactgaggctgagaatac	M63284
106394	tcaagcatcccgaagccctggatga	M63284
106395	tagtgtctcctggtccaagggatgc	M63284
106396	ctcctggtccaagggatgctgtaga	M63284
106397	acatccagagtcacttctgtgagtc	M63284
106398	agagtcacttctgtgagtcctgaaa	M63284
106399	gtgagtcctgaaaccaacagacact	M63284
106400	tacagcttcccaactcaagactctt	M63284
106401	ggatgctattgcccggctcaaggag	AA036251
106402	agagtacaatgccttaggaggcaag	AA036251
106403	acagtgggctggtgtgtagaactgc	AA036251
106404	tgtagaactgctccaggctttcttc	AA036251
106405	gtagaactgctccaggctttcttcc	AA036251
106406	agaactgctccaggctttcttcctt	AA036251
106407	actgctccaggctttcttccttgtg	AA036251
106408	gctccaggctttcttccttgtgtca	AA036251
106409	ctccaggctttcttccttgtgtcag	AA036251
106410	ccaggctttcttccttgtgtcagat	AA036251
106411	caggctttcttccttgtgtcagatg	AA036251
106412	ggctttcttccttgtgtcagatgac	AA036251
106413	gagtacaatgccttaggaggcaagt	AA036251
106414	gctttcttccttgtgtcagatgaca	AA036251
106415	tacaatgccttaggaggcaagtaca	AA036251
106416	caatgccttaggaggcaagtacaac	AA036251
106417	tttgaccgtggtacaagccttccag	AA036251
106418	gagagtcttcagcgggccctgacag	AA036251
106419	gagtcttcagcgggccctgacagtg	AA036251
106420	agtcttcagcgggccctgacagtgg	AA036251
106421	tcttcagcgggccctgacagtgggc	AA036251
106422	gctccatgtcggtagttgatcttga	D12513
106423	ctgctgctgacttcccagcggaaac	D12513
106424	ctcctgccaaagccaagaacagtcg	D12513

TABLE 1

SEQ ID NO	sequence	DBAxnID
21217	ctgcaaagccggtgcttctatataa	D10056
21218	aagccacatttggttgccatgagac	D10056
21219	ccacatttggttgccatgagacata	D10056
21220	catacaagctggacggcccagaaga	D10056
21221	acccgcatgcacgcaatgggctggc	L03547
21222	atgcacgcaatgggctggctctcaa	L03547
21223	ttcgggatccctttgagtgtaacat	L03547
21224	gttatcacagccaggacaggtacga	L03547
21225	acagccaggacaggtacgagttctc	L03547
21226	ggtacgagttctcatcccatatcac	L03547
21227	gggagcatcgttaccacctgagcta	L03547
21228	agccaggccccactgaagcacaaag	L03547
21229	tggacccacagcggacaatgtggga	L03547
21230	tttgcaggcagcatttgttctttta	L03547
21231	tggcgtttgatttgcgttggaagat	L03547
21232	caggaacattcacaacatccatcct	L03547
21233	cctcagagaactcgcaggatgccttt	L03547
21234	agaactcgcaggatgccttccgtgt	L03547
21235	tccgtgtggtcagcacgagtggcga	L03547
21236	tggtcagcacgagtggcgagcagct	L03547
21237	tgctcttcctggatcacgtcatgta	L03547
21238	tcctggatcacgtcatgtataccat	L03547
21239	atcacgtcatgtataccattcacat	L03547
21240	tcatgtataccattcacatgggctg	L03547
21241	acagttgtctgaggcccaaagtatt	U15635
21242	tgaatgccgcaatctatacaagtat	U15635
21243	gcagctcattcgggtgtactgtaag	U15635
21244	ttcagtggtgtgcgctcagggactt	U15635
21245	tcaccaagccacaggatggtgacat	U15635
21246	gtgacattatagctccactcataac	U15635
21247	ttatagctccactcataacacctct	U15635
21248	ctccactcataacacctctgaaatg	U15635
21249	tcataacacctctgaaatggaataa	U15635
21250	ataagacttcatcttgcctccaaga	U15635
21251	cttcatcttgcctccaagaagtatc	U15635
21252	cttgcctccaagaagtatccaaagt	U15635
21253	tgagacccagccaaagcgtgagaag	U15635
21254	tgaacggcttccccaagaagttgct	U15635
21255	tgaaaaagccccggatgttgaactg	U15635
21256	caagaatccaatcgatcgtgttcac	U15635
21257	tccaatcgatcgtgttcacttctat	U15635
21258	cgatcgtgttcacttctattgtaag	U15635
21259	cagcaagcaagcggtcaggatcaat	U15635
21260	gtcacaactgctgccagagaaattt	U15635
21261	ggactccagtgccacgttcgaaaag	L42115
21262	cagtgccacgttcgaaaaggaatct	L42115
21263	gaatgacattctcagtcacccagag	L42115
21264	cattctcagtcacccagagccatct	L42115
21265	cagtcacccagagccatctggccta	L42115
21266	caatactatcttaatgtccctatct	L42115
21267	tatcttaatgtccctatctgtggtg	L42115
21268	gcacttgctgtgaccttcccagtag	L42115
21269	gctgtgaccttcccagtagtccctc	L42115
21270	ccatgacagaaaacactcccatgag	L42115
21271	cagaaaacactcccatgagtctcga	L42115
21272	gaataaatgtcactccagaacacat	L42115
21273	tttctacgccctggtgacttcacgt	L42115
21274	tgggctgtttacacactccaggaat	L42115
21275	gtttacacactccaggaatctaggg	L42115
21276	tgtctccttcctggagaggctatta	L42115
21277	cttcctggagaggctattaggagcc	L42115
21278	aggagccttgttgctggggtgcata	L42115
21279	tctccgttctgtcccccattcaagg	L42115
21280	cccccattcaaggaatgacattctc	L42115
21281	gtaatacatgtcttctgataccctа	W64673
21282	tacatgtcttctgataccctacaca	W64673
21283	agttattcacagacgtatgtctttc	W64673
21284	ttattcacagacgtatgtctttcta	W64673

SEQ ID NO:	sequence	DBAxnID
63821	cagccattgcgcctctggatggtga	AA060840
63822	gccattgcgcctctggatggtgagg	AA060840
63823	cattgcgcctctggatggtgaggag	AA060840
63824	ttgcgcctctggatggtgaggagct	AA060840
63825	gcgcctctggatggtgaggagctca	AA060840
63826	aagatgtgccactgagcatgcacca	AA060840
63827	tgtgccactgagcatgcaccatttt	AA060840
63828	tgccactgagcatgcaccattttgt	AA060840
63829	taccaccttgagcctctactacctg	X57487
63830	gcatctttctggggattcagctgac	X57487
63831	agccttgccaattcaagtgtgcttt	X57487
63832	tcaagtgtgctttctgcagttccag	X57487
63833	actgaagagacccccaaggccagca	X57487
63834	cccaaggccagcaacaagattccct	X57487
63835	cacatacaacctcactgtaaatacc	X57487
63836	tgaaactctgtttcggtcaagcttt	X57487
63837	tctgtttcggtcaagctttcctctt	X57487
63838	gtctttggtctctgaaatatctccc	X57487
63839	tgaaatatctccctactatgttggg	X57487
63840	cctccattaccacatgactcaataa	X57487
63841	agctgaccttctatttccagttgct	X57487
63842	atgactcaataaaccattactcttg	X57487
63843	ccttctatttccagttgctgtgcat	X57487
63844	atttccagttgctgtgcatttacaa	X57487
63845	agttgctgtgcatttacaagcaccc	X57487
63846	ccttagcctctcaaccagtggctac	X57487
63847	tggctacccctttggcagcagcgaa	X57487
63848	ccccttggcagcagcgaacctgtc	X57487
63849	aggctctacgtagaacataggaagc	X57487
63850	cgattaattgtcccaatggttcagc	AA060846
63851	ttaattgtcccaatggttcagcgcc	AA060846
63852	gttgtacccttgccgcacacatag	AA060846
63853	tgtacccttgccgcacacatagtt	AA060846
63854	gtacccttgccgcacacatagttt	AA060846
63855	acccttgccgcacacatagtttag	AA060846
63856	ccctttgccgcacacatagtttaga	AA060846
63857	ctttgccgcacacatagtttagacg	AA060846
63858	tttgccgcacacatagtttagacga	AA060846
63859	tgccgcacacatagtttagacgaag	AA060846
63860	gccgcacacatagtttagacgaaga	AA060846
63861	cgcacacatagtttagacgaagagc	AA060846
63862	taattgtcccaatggttcagcgccg	AA060846
63863	attgtcccaatggttcagcgccgct	AA060846
63864	agcgccgctgtgtgtctcggataca	AA060846
63865	cgccgctgtgtgtctcggatacatg	AA060846
63866	gccgctgtgtgtctcggatacatgc	AA060846
63867	tctcggatacatgcgcccgctgtgc	AA060846
63868	ggatacatgcgcccgctgtgcgcgt	AA060846
63869	cgttgtacccttgccgcacacata	AA060846
63870	tgagcctgttcacctaacgtttgct	X57800
63871	tgttcacctaacgtttgctctgagg	X57800
63872	tttggctcccaagattgaagatgag	X57800
63873	atcttaggcattgctagaaattgag	X57800
63874	tcctgagatgccagcgtgtcctgag	X57800
63875	agcgtgtcctgaggtcttttctgtc	X57800
63876	tcctgaggtcttttctgtcaccaag	X57800
63877	caccaagtttgtacctgagtattct	X57800
63878	cattctccataatttgcttaaagaa	X57800
63879	aatgtttctgctttacaaatactgg	X57800
63880	tctgctttacaaatactggtgattt	X57800
63881	ttccatcaatgatcttgacgctaaa	X57800
63882	gtttgctctgaggtacctgaacttt	X57800
63883	cactccactgtctcctacagtaaca	X57800
63884	actgtctcctacagtaacactcagt	X57800
63885	actcagtatgtctgcagatgtgccc	X57800
63886	tatgtctgcagatgtgccccttgtt	X57800
63887	tgcagatgtgccccttgttgtagag	X57800
63888	tgtgccccttgttgtagagtataaa	X57800

SEQ ID NO	sequence	DBAxnID
106425	ggaagccatcttcttctgatagctc	D12513
106426	catcttcttctgatagctctgactc	D12513
106427	cttctgatagctctgactctgattt	D12513
106428	ctgactctgattttgagagagcaat	D12513
106429	tccctgtggacttggaagacacgat	D12513
106430	acacgatagctcctcgagccaaatc	D12513
106431	tagctcctcgagccaaatctgaccg	D12513
106432	ctcgagccaaatctgaccgggcgag	D12513
106433	atgacgacctcttctgaggcagaag	D12513
106434	ctgacttcccagcggaaactgaaca	D12513
106435	agacagcaaccaaaagccagtcttc	D12513
106436	caaccaaaagccagtcttcagtctc	D12513
106437	agtcttcagtctccactgctggtac	D12513
106438	cagtctccactgctggtaccaaaaa	D12513
106439	ccactgctggtaccaaaaagagagc	D12513
106440	gaaccaaatcagattcagccttgag	D12513
106441	attcagccttgagtgctcgtgtctc	D12513
106442	tctccctcttcttagcctgctgtgt	M33760
106443	tcttcttagcctgctgtgtgagaga	M33760
106444	caatactaatttgctttgctgacca	M33760
106445	taatttgctttgctgaccaaatacc	M33760
106446	ttgctgaccaaatacctgcctggta	M33760
106447	ctgaccaaatacctgcctggtacca	M33760
106448	gagccgtgatgtgcccttggctgag	M33760
106449	tgagcctagacttggggctctgtac	M33760
106450	gcctagacttggggctctgtacata	M33760
106451	acttggggctctgtacatagctatg	M33760
106452	gagacgcccagggtagcatccgttg	M33760
106453	acgcccagggtagcatccgttgcta	M33760
106454	agccaagaggcaggtgcttgccgac	M33760
106455	gacgtatccggggcattcctgttga	M33760
106456	gaaggcaacctctgctccagatgga	M33760
106457	ggcaacctctgctccagatggatgg	M33760
106458	gtaccagtagcttcttaattccaat	M33760
106459	ccagtagcttcttaattccaatact	M33760
106460	tcttaattccaatactaatttgctt	M33760
106461	taattccaatactaatttgctttgc	M33760
106462	tcggccgatactggcccacaatggg	M75122
106463	tcgtgccaaggaacatcctgaccac	M75122
106464	actcatggctgaacctctgagactg	M75122
106465	ggctgaacctctgagactgagcctt	M75122
106466	acctctgagactgagccttggggag	M75122
106467	gcacagctctactctggttacacgg	M75122
106468	ctctactctggttacacggatcacc	M75122
106469	tacacggatcacctttgttgtgcta	M75122
106470	gatcacctttgttgtgctagaatgg	M75122
106471	taccctgctggtgactttgcagccc	M75122
106472	tcctttatcctgatttgaaataatc	M75122
106473	cacgtcatctttctgctgaataaaa	M75122
106474	caaggaacatcctgaccacttcagc	M75122
106475	acaacatcacagtgttggagctaga	M75122
106476	ccccagagctgtgtacagtagagtt	M75122
106477	ttgttgacactccggtcatttcctg	M75122
106478	cggtcatttcctgacctgacttgac	M75122
106479	gtggccattttccaagccagtctgg	M75122
106480	caagccagtctggtcaagactcatg	M75122
106481	agtctggtcaagactcatggctgaa	M75122
106482	gctgcgcaccatggaacagcggtta	AA050593
106483	gcgcaccatggaacagcggttagcg	AA050593
106484	agagcgtacagacctcgggagcgaa	AA050593
106485	ggcgacgaccccaaagacagccacg	AA050593
106486	gacagccacgggtggctgacacgct	AA050593
106487	agccacgggtggctgacacgcttcc	AA050593
106488	ctgacacgcttcctgaaacggaaag	AA050593
106489	caggctcagaccaaccagcctcagg	AA050593
106490	gctcagaccaaccagcctcaggaag	AA050593
106491	cagaccaaccagcctcaggaagcag	AA050593
106492	accaaccagcctcaggaagcaggcc	AA050593

TABLE 1

SEQ ID NO	sequence	DBAxnID
21285	acgtatgtctttctaatcaggttct	W64673
21286	atgtctttctaatcaggttctcaat	W64673
21287	gtctttctaatcaggttctcaatgc	W64673
21288	ctttctaatcaggttctcaatgctc	W64673
21289	ttctaatcaggttctcaatgctctc	W64673
21290	aatcaggttctcaatgctctctcca	W64673
21291	tcaggttctcaatgctctctccaag	W64673
21292	gttctcaatgctctctccaagctca	W64673
21293	tgtcttctgataccctacacagcac	W64673
21294	tctcaatgctctctccaagctcatt	W64673
21295	tcttctgataccctacacagcacac	W64673
21296	ctccttcccatcggaatatgtatca	W64673
21297	ggactcattgatactgccaggctct	W64673
21298	actcattgatactgccaggctctga	W64673
21299	tcattgatactgccaggctctgagg	W64673
21300	actgccaggctctgaggactatgac	W64673
21301	tgccaggctctgaggactatgacag	W64673
21302	cgagcgacatcaagccggaagagaa	W64676
21303	gcgacatcaagccggaagagaatga	W64676
21304	tgatccgtatatgccagctgcacgc	W64676
21305	tccgtatatgccagctgcacgctca	W64676
21306	gtatatgccagctgcacgctcaagt	W64676
21307	tatgccagctgcacgctcaagtcgg	W64676
21308	gccagctgcacgctcaagtcggatg	W64676
21309	agctgcacgctcaagtcggatgagg	W64676
21310	tgcacgctcaagtcggatgaggctc	W64676
21311	acgctcaagtcggatgaggctcata	W64676
21312	atgaggctcatacaaggtggtgatg	W64676
21313	aggctcatacaaggtggtgatgctg	W64676
21314	gcatcagcactggacgcagaagact	W64676
21315	tcagcactggacgcagaagactacc	W64676
21316	gaagactaccagtagcacctgaatg	W64676
21317	gactaccagtagcacctgaatgtcc	W64676
21318	taccagtagcacctgaatgtccacc	W64676
21319	cgccaccagtagtacagatgaggtg	W64676
21320	ccttccaagagctgatccgtatatg	W64676
21321	tccaagagctgatccgtatatgcca	W64676
21322	agatagccacagccttgccagatga	L16953
21323	tagccacagccttgccagatgacat	L16953
21324	aaggagcttctgaccgctgggacaa	L16953
21325	ctgaccgctgggacaaaatagccaa	L16953
21326	tagccaaatgtgtcccgtctaagag	L16953
21327	cgatcaatgaccatcattttccaaa	L16953
21328	ttccaaacaagtactcgagaaatct	L16953
21329	actcgagaaatctcatgcagaaact	L16953
21330	gaaatctcatgcagaaacttatatt	L16953
21331	tttgtacctcagtatttctaaacat	L16953
21332	gtacctcagtatttctaaacatcat	L16953
21333	cctcagtatttctaaacatcatgtg	L16953
21334	ccacagccttgccagatgacatcat	L16953
21335	atttctaaacatcatgtgccttagt	L16953
21336	tgccagatgacatcatcacgcagcg	L16953
21337	cagatgacatcatcacgcagcggga	L16953
21338	agtcagcgaccacagaagcccgacc	L16953
21339	ccacagaagcccgacctcggaggcg	L16953
21340	acgattccagtgacgaagagaaaca	L16953
21341	tggcattacagcaataccctaaagg	L16953
21342	tacagcaataccctaaaggagcttc	L16953
21343	cctttctgcactttttgcaagacag	W64897
21344	ttctgcactttttgcaagacagtgg	W64897
21345	ttactatagctatctagatgccctt	W64897
21346	tagctatctagatgccctttaacat	W64897
21347	tgccctttaacattgtgacaaatag	W64897
21348	ttataaagcctgtgtgtgcgggacc	W64897
21349	taaagcctgtgtgtgcgggacctga	W64897
21350	agcctgtgtgtgcgggacctgatcc	W64897
21351	ctgtgtgtgcgggacctgatcctct	W64897
21352	cgggacctgatcctctaagatacat	W64897

SEQ ID NO:	sequence	DBAxnID
63889	gtattatttggctcccaagattgaa	X57800
63890	gccgccagaatctcaagccggaaat	AA060894
63891	cgccagaatctcaagccggaaattc	AA060894
63892	agtcccctgagcactgcatggagca	AA060894
63893	ccctgagcactgcatggagcagatc	AA060894
63894	ctgagcactgcatggagcagatcca	AA060894
63895	gagcagatccaggctgggcacactg	AA060894
63896	agatccaggctgggcacactgacgc	AA060894
63897	gctgggcacactgacgctgtgactc	AA060894
63898	tgtatgctgaggaggacaggagcaa	AA060894
63899	agcaattcctactttgtggtggctg	AA060894
63900	caattcctactttgtggtggctgtg	AA060894
63901	attcctactttgtggtggctgtggc	AA060894
63902	ccagaatctcaagccggaaattcag	AA060894
63903	agaatctcaagccggaaattcagtg	AA060894
63904	aatctcaagccggaaattcagtgtg	AA060894
63905	tctcaagccggaaattcagtgtgtg	AA060894
63906	gaaattcagtgtgtgtcggccgagt	AA060894
63907	aattcagtgtgtgtcggccgagtcc	AA060894
63908	ttcagtgtgtgtcggccgagtcccc	AA060894
63909	gccgagtcccctgagcactgcatgg	AA060894
63910	aaggctatgcacactggtagaagat	X66473
63911	aagcaatgccatagcttttcatga	X66473
63912	gtctcttttctagtaacttgtgtga	X66473
63913	tttctagtaacttgtgtgacagggg	X66473
63914	gccagctggtcagtcgccctttga	X66473
63915	tggtcagtcgccctttgagaccac	X66473
63916	cttttgagaccactcctttgtgctc	X66473
63917	tgtgctccaccatgtttgttaatcc	X66473
63918	ccaccatgtttgttaatccctctct	X66473
63919	cctctctgctttccttagcgagtaa	X66473
63920	tgctttccttagcgagtaacacttg	X66473
63921	ccttagcgagtaacacttggtgctt	X66473
63922	tgccatagctttttcatgaattatt	X66473
63923	gtttatctacccacttgttctaatg	X66473
63924	ctacccacttgttctaatgacctat	X66473
63925	acttgttctaatgacctatagactc	X66473
63926	tctaatgacctatagactctttgat	X66473
63927	gacctatagactctttgatacatag	X66473
63928	ctttgatacatagtctcttttctag	X66473
63929	tacatagtctcttttctagtaactt	X66473
63930	agtggatacatctctcggtgctaca	AA060874
63931	gctccctacaggtgtagacccaca	AA060874
63932	gaatcacattacgagatcttacgag	AA060874
63933	aatcacattacgagatcttacgagg	AA060874
63934	tcacattacgagatcttacgaggac	AA060874
63935	cacattacgagatcttacgaggaca	AA060874
63936	cattacgagatcttacgaggacaga	AA060874
63937	attacgagatcttacgaggacagag	AA060874
63938	tcttacgaggacagagcccgaaatt	AA060874
63939	gaaatcagaacggtctggagcacag	AA060874
63940	aatcagaacggtctggagcacagta	AA060874
63941	agaacggtctggagcacagtaggaa	AA060874
63942	cacactagtgtcatattcactatcc	AA060874
63943	gtgtcatattcactatccactgagg	AA060874
63944	gtcatattcactatccactgagggc	AA060874
63945	tcactatccactgagggcacactat	AA060874
63946	atccactgagggcacactataagtg	AA060874
63947	agcagtcacacaatcagcgaagaat	AA060874
63948	gcagtcacacaatcagcgaagaatc	AA060874
63949	cacacaatcagcgaagaatcacatt	AA060874
63950	gtacaaagtggagcccctggcattt	U05837
63951	gcccctggcatttcatggtacgcct	U05837
63952	tgtaggctactgtgagcaggagttt	U05837
63953	ctactgtgagcaggagtttgagcag	U05837
63954	tgagcagacttgagccaccagcgct	U05837
63955	gacttgagccaccagcgctgaacac	U05837
63956	agccaccagcgctgaacacccagga	U05837

SEQ ID NO	sequence	DBAxnID
106493	aaccagcctcaggaagcaggccagc	AA050593
106494	caccatggaacagcggttagcgagt	AA050593
106495	gaggcccgcaaacggcagttctggt	AA050593
106496	cgcaaacggcagttctggtagccca	AA050593
106497	cagttctggtagcccagccttccac	AA050593
106498	ttctggtagcccagccttccacgtc	AA050593
106499	tggtagcccagccttccacgtccag	AA050593
106500	ccacgtccagtcagagcgtacagac	AA050593
106501	cgtccagtcagagcgtacagacctc	AA050593
106502	tgtctttatgctcgcagcctccggc	M81447
106503	cgcagcctccggcatctgcattatc	M81447
106504	ctgatgccagtaccaggcaacctcc	M81447
106505	cctccttctcctatgccggtgagca	M81447
106506	tctcctatgccggtgagcaggcttc	M81447
106507	aggcttctgcctgatagggattatt	M81447
106508	cttctgcctgatagggattattact	M81447
106509	tcctcagagagccttctgtcaaaga	M81447
106510	tcagagagccttctgtcaaagacct	M81447
106511	gagagccttctgtcaaagacctggc	M81447
106512	cttctgtcaaagacctggccggctg	M81447
106513	gccacttctacaacagggctcaagg	M81447
106514	agcctccggcatctgcattatcctc	M81447
106515	ctccggcatctgcattatcctcaac	M81447
106516	ctgcattatcctcaacgtggcggag	M81447
106517	gatcaacaagctgctgagcgagcag	M81447
106518	agacatactgcgccgcagccctggc	M81447
106519	gagcgaccgatgctcagcctgctga	M81447
106520	ctcagcctgctgatgccagtaccag	M81447
106521	agcctgctgatgccagtaccaggca	M81447
106522	caccccgagtagcatctgtccaggt	AA118758
106523	cccgagtagcatctgtccaggtggt	AA118758
106524	acagaaggcggctgcttggtgctaa	AA118758
106525	tgcttggtgctaacatccgagtccg	AA118758
106526	ttggtgctaacatccgagtccgagt	AA118758
106527	gtgctaacatccgagtccgagtcga	AA118758
106528	ctaacatccgagtccgagtcgatct	AA118758
106529	acatccgagtccgagtcgatctacg	AA118758
106530	gagtccgagtcgatctacgagacaa	AA118758
106531	atctacgagacaactactccccagg	AA118758
106532	tacgagacaactactccccaggctg	AA118758
106533	tcaaccactgggaactcaagggagt	AA118758
106534	tggtagtcattccctgtggaatcac	AA118758
106535	tagtcattccctgtggaatcacaaa	AA118758
106536	tcattccctgtggaatcacaaatgc	AA118758
106537	ttccctgtggaatcacaaatgccct	AA118758
106538	gaatcacaaatgccctgtctgaaga	AA118758
106539	tcacaaatgccctgtctgaagaaga	AA118758
106540	caaatgccctgtctgaagaagacag	AA118758
106541	atgccctgtctgaagaagacagaga	AA118758
106542	gtcagcaactgcaagcaaactgcta	X67279
106543	aactgcaagcaaactgctaggcagg	X67279
106544	gatttctgtatcccttagcccctca	X67279
106545	actgaggcagtcccttgcagaacca	X67279
106546	gcagtcccttgcagaaccactgtca	X67279
106547	tcctgcttttctgaattagtcaaga	X67279
106548	tgtctttcagatactggccagagcc	X67279
106549	actggccagagcctggacactcttc	X67279
106550	cagagcctggacactcttcctctga	X67279
106551	actcttcctctgagatctccagctt	X67279
106552	cctctgagatctccagcttctctgc	X67279
106553	agatctccagcttctctgccttctt	X67279
106554	actgctaggcaggattcagaagaaa	X67279
106555	gcatctctaacatccaccaggaagg	X67279
106556	tccaccaggaaggtgcccagaaaag	X67279
106557	cctctttctgagacaatccactatt	X67279
106558	tctgagacaatccactatttgaaaa	X67279
106559	acaatccactatttgaaaattgtag	X67279
106560	gaattgcctctcagtatgcgagctg	X67279

TABLE 1

SEQ ID NO	sequence	DBAxnID
21353	ctgatcctctaagatacatggtgta	W64897
21354	atcctctaagatacatggtgtagct	W64897
21355	actttttgcaagacagtggtcaaca	W64897
21356	attcttcaggcaactttcaatccct	W64897
21357	caggcaactttcaatcccttactat	W64897
21358	gcaactttcaatcccttactatagc	W64897
21359	actttcaatcccttactatagctat	W64897
21360	ttcaatcccttactatagctatcta	W64897
21361	aatcccttactatagctatctagat	W64897
21362	cccttactatagctatctagatgcc	W64897
21363	catatgctgcaggtggatcccatga	W64946
21364	atgctgcaggtggatcccatgaaga	W64946
21365	ccatcttatagttcaaccatgatcg	W64946
21366	tcttatagttcaaccatgatcgatg	W64946
21367	tatagttcaaccatgatcgatgacg	W64946
21368	agttcaaccatgatcgatgacgaag	W64946
21369	gaggtcctcagctgcctgtacaaca	W64946
21370	gtcctcagctgcctgtacaacagaa	W64946
21371	ctcagctgcctgtacaacagaaacc	W64946
21372	agctgcctgtacaacagaaaccacc	W64946
21373	taccacctcatcatagacaacagga	W64946
21374	ctcatcatagacaacaggagaataa	W64946
21375	gatcccatgaagagggccgcaataa	W64946
21376	gaccttccgaagtatctctttcctg	W64946
21377	cttccgaagtatctctttcctgagg	W64946
21378	aagtatctctttcctgaggacccat	W64946
21379	ctctttcctgaggacccatcttata	W64946
21380	tttcctgaggacccatcttatagtt	W64946
21381	cctgaggacccatcttatagttcaa	W64946
21382	gaggacccatcttatagttcaacca	W64946
21383	ccattactaatagacttcagagagt	
21384	tgataattccatcttatgttcttca	
21385	tgaaacttgctctcattaaagttct	
21386	ttgctctcattaaagttctgcagaa	
21387	aagttctgcagaacttctccttcca	
21388	gcagagaactacttcttcaaccagt	
21389	aggttgtgccacgggatgcagtcat	
21390	cagtcataactggagcgtgattttc	
21391	gattttcccttgaggagttctgctg	
21392	cccttgaggagttctgctgagttct	
21393	attgaacactttagtctcatcatga	
21394	cactttagtctcatcatgaataaaa	
21395	ttccatcttatgttcttcaccatga	
21396	cttatgttcttcaccatgacccaca	
21397	accatgacccacagcactggccaga	
21398	acccacagcactggccagagcctga	
21399	agcactggccagagcctgaagaatt	
21400	atctgccctttgggaatggacccag	
21401	gacccaggaactgcattggcatgag	
21402	ggtttgctctcatgaatatgaaact	
21403	gcagagaactacttcttcaaccagt	
21404	cagagaactacttcttcaaccagta	
21405	gattttcccttgaggagttctgctg	
21406	attttcccttgaggagttctgctga	
21407	ttcccttgaggagttctgctgagtt	
21408	acattgaacactttagtctcatcat	
21409	attgaacactttagtctcatcatga	
21410	gaacactttagtctcatcatgaata	
21411	aacactttagtctcatcatgaataa	
21412	tgattgattttgatgcctggttaaa	
21413	gcagagaactacttcttcaaccagt	
21414	cagagaactacttcttcaaccagta	
21415	tttagtctcatcatgaataaaaatc	
21416	ttagtctcatcatgaataaaaatca	
21417	tgattgattttgatgcctggttaaa	
21418	gattttcccttgaggagttctgctg	
21419	attttcccttgaggagttctgctga	
21420	ttcccttgaggagttctgctgagtt	

SEQ ID NO:	sequence	DBAxnID
63957	aggttgctgtcctttgagtcagctg	U05837
63958	ctgtcctttgagtcagctgcgctga	U05837
63959	tttgagtcagctgcgctgagcaccc	U05837
63960	tgcccctgtgactacagagaaggag	U05837
63961	tgctggcactggtgttcaataaaga	U05837
63962	ggcatttcatggtacgcctgaacag	U05837
63963	tacgcctgaacagaaggctctggtc	U05837
63964	ggacagcaccaacctggtccccaga	U05837
63965	acgtttgtcgcatttccgttgtgag	U05837
63966	gtcgcatttccgttgtgagctggtg	U05837
63967	tttccgttgtgagctggtgaggaga	U05837
63968	ccagcccatcagtgtaggctactgt	U05837
63969	catcagtgtaggctactgtgagcag	U05837
63970	agtcaggccaacatgagtgagagac	X17320
63971	catagtatttatgccccctataggc	X17320
63972	gtttatctccattacaattcctctg	X17320
63973	ttatctccattacaattcctctgca	X17320
63974	atctccattacaattcctctgcaac	X17320
63975	attacaattcctctgcaactatttt	X17320
63976	tacaattcctctgcaactattttcc	X17320
63977	caattcctctgcaactattttcctt	X17320
63978	attcctctgcaactattttccttga	X17320
63979	ctctgcaactattttccttgatgtt	X17320
63980	ctgcaactattttccttgatgttgt	X17320
63981	gcaactattttccttgatgttgtaa	X17320
63982	tagtatttatgccccctataggcag	X17320
63983	gtatttatgccccctataggcaggt	X17320
63984	atttatgccccctataggcaggtat	X17320
63985	gccccctataggcaggtatccacag	X17320
63986	cccctataggcaggtatccacagta	X17320
63987	agcttaatctgtttatctccattac	X17320
63988	taatctgtttatctccattacaatt	X17320
63989	atctgtttatctccattacaattcc	X17320
63990	acccagaccctattcagatcctgac	X69025
63991	cagaccctattcagatcctgaccat	X69025
63992	agccagggcctctttccttctcagg	X69025
63993	gtcctactcggtgctgttgagtagg	X69025
63994	gaattgaccagcttagtgaggagcc	X69025
63995	tgcgagcttgtgcccaattgtaaca	X69025
63996	gagcttgtgcccaattgtaacactc	X69025
63997	gccaaggacagtctcctggatgtat	X69025
63998	gacagtctcctggatgtatggtttg	X69025
63999	ggttcctgaatgcaccataattgct	X69025
64000	tgaatgcaccataattgctgtatga	X69025
64001	atgcaccataattgctgtatgaaat	X69025
64002	ctattcagatcctgaccatcactat	X69025
64003	ttcagatcctgaccatcactatacc	X69025
64004	agatcctgaccatcactataccctg	X69025
64005	tgaccatcactataccctgggattg	X69025
64006	ccatcactataccctgggattggct	X69025
64007	tcactataccctgggattggctatg	X69025
64008	taccctgggattggctatgggaaag	X69025
64009	agaactaccagagactgggagatgg	X69025
64010	gacttcgggttcgcgcgactgcgcc	AA061016
64011	cccagagcccggcagagccatgcag	AA061016
64012	tcctgcgatctatggagcctgggtg	AA061016
64013	gatctatggagcctgggtgtcattc	AA061016
64014	ctgtacatgatgctgtctggccagg	AA061016
64015	tacatgatgctgtctggccaggttc	AA061016
64016	atgatgctgtctggccaggttccct	AA061016
64017	ctgtctggccaggttcccttccaag	AA061016
64018	ttccaaggggcctccgcatgggtgg	AA061016
64019	gcctccgcatgggtggacagagtca	AA061016
64020	tgtgcaagatccgtgaagggcgctt	AA061016
64021	agatccgtgaagggcgcttctccct	AA061016
64022	agagcccggcagagccatgcagact	AA061016
64023	tccttgcttcacactgcagtacgct	AA061016
64024	actgcagtacgctgcacccgagctg	AA061016

SEQ ID NO	sequence	DBAxnID
106561	gatcactttgccttagggccactag	X67279
106562	gcactttgggcaggcacccctgcgc	W10037
106563	cactttgggcaggcacccctgcgca	W10037
106564	cttcagtctggtaccacagccagat	W10037
106565	ttcagtctggtaccacagccagatc	W10037
106566	cagtctggtaccacagccagatcga	W10037
106567	agtctggtaccacagccagatcgag	W10037
106568	tctggtaccacagccagatcgagtg	W10037
106569	ctggtaccacagccagatcgagtgc	W10037
106570	agatcgagtgcttcacgccagcaca	W10037
106571	gatcgagtgcttcacgccagcacat	W10037
106572	ctatgactacgagggagatggtctg	W10037
106573	tatgactacgagggagatggtctgt	W10037
106574	cagggatgcacccttcagtctggta	W10037
106575	agggatgcacccttcagtctggtac	W10037
106576	ggatgcacccttcagtctggtacca	W10037
106577	gatgcacccttcagtctggtaccac	W10037
106578	tgcacccttcagtctggtaccacag	W10037
106579	gcacccttcagtctggtaccacagc	W10037
106580	acccttcagtctggtaccacagcca	W10037
106581	cccttcagtctggtaccacagccag	W10037
106582	gaaaccctgtagtggattgtaagag	M64279
106583	ttactcgaaagcccaatgaaagaag	M64279
106584	acttacttctgagagtgcgtttgag	M64279
106585	ttctgagagtgcgtttgaggcactt	M64279
106586	ggcacttatggcttactaagcagtg	M64279
106587	agcagtgtgtcaccatacttgaaaa	M64279
106588	agtgtgtcaccatacttgaaaactc	M64279
106589	gtgtcaccatacttgaaaactcttc	M64279
106590	tacttgaaaactcttccatttattg	M64279
106591	ttgaaaactcttccatttattgtat	M64279
106592	actcttccatttattgtatctggat	M64279
106593	ccatttattgtatctggatgaggct	M64279
106594	ctcgaaagcccaatgaaagaagtat	M64279
106595	gtatctgcttatttacaatctttga	M64279
106596	tctgcttatttacaatctttgaagc	M64279
106597	ccaatgtttgccaattttggtgaat	M64279
106598	tcatttttctagacttttctcgagg	M64279
106599	tagacttttctcgaggttttcatgg	M64279
106600	tcaccctctatgatgacttacttct	M64279
106601	atgatgacttacttctgagagtgcg	M64279
106602	accatcagcctgtgctgctgggact	W10048
106603	tgctgctgggactccaggacagctg	W10048
106604	atcgtgcgctgcatagtgcactccc	W10048
106605	accaaccctggcttcatgacgtgca	W10048
106606	cctggcttcatgacgtgcagcgatg	W10048
106607	ttctggtaccggagtccactactga	W10048
106608	tggtaccggagtccactactgactg	W10048
106609	agtccactactgactgaactggccc	W10048
106610	ccactactgactgaactggccccat	W10048
106611	ccatcctagggttcttgtctcagga	W10048
106612	ggttcttgtctcaggactctgccct	W10048
106613	tcttgtctcaggactctgccctcct	W10048
106614	tgctgggactccaggacagctgagc	W10048
106615	gactccaggacagctgagcgcagga	W10048
106616	tccaggacagctgagcgcaggaacc	W10048
106617	aacctgctgtccctgggccacaaca	W10048
106618	ctgtccctgggccacaacaacatcg	W10048
106619	ctgggccacaacaacatcgtgcgct	W10048
106620	ggccacaacaacatcgtgcgctgca	W10048
106621	aacatcgtgcgctgcatagtgcact	W10048
106622	ggatccatgggctgatctggaagta	AA139709
106623	ccaacctgttgtgatcttcagtaga	AA139709
106624	ttttccttgtttgccgcctgacact	AA139709
106625	tccttgtttgccgcctgacacttct	AA139709
106626	tttgccgcctgacacttctcagcag	AA139709
106627	gccgcctgacacttctcagcaggat	AA139709
106628	gcctgacacttctcagcaggatcca	AA139709

TABLE 1

SEQ ID NO	sequence	DBAxnID
21421	acattgaacactttagtctcatcat	
21422	cattgaacactttagtctcatcatg	
21423	attgaacactttagtctcatcatga	
21424	gaacactttagtctcatcatgaata	
21425	aacactttagtctcatcatgaataa	
21426	aggacttcctgtctgtatcagatat	U20159
21427	ttattgactacttcaggaaaatgcc	U20159
21428	gtgaccttagcaaatcgccgagcac	U20159
21429	ttagcaaatcgccgagcacttagga	U20159
21430	actcgggcccagagttctgccctgc	U20159
21431	atcatgttcacatttgaagtctaag	U20159
21432	agattttgaacatccatcccaaaat	U20159
21433	tgaacatccatcccaaaatacagta	U20159
21434	tccatcccaaaatacagtacttgat	U20159
21435	tactgaaactggtcatttttgatat	U20159
21436	ataatgaatcttttgtcaggccgag	U20159
21437	ttgtcaggccgaggcatgttctgtt	U20159
21438	actacttcaggaaaatgccgctgtt	U20159
21439	gataccagtgcacactaacacacgc	U20159
21440	agtgcacactaacacacgctgcagg	U20159
21441	cactaacacacgctgcaggctgtct	U20159
21442	ctgcaggctgtctgtagcaagttag	U20159
21443	gcctttctgacttggtggtcactgc	U20159
21444	ctgacttggtggtcactgcggcgaa	U20159
21445	aatcacgtgaccttagcaaatcgcc	U20159
21446	gctatcatataccagtacatagaag	D29016
21447	tcagacccatcatcaagcaaaacca	D29016
21448	tccttttcctccagctggattttga	D29016
21449	cttggttcctctgcctcttgtagcc	D29016
21450	tcctctgcctcttgtagccactggc	D29016
21451	gcctcttgtagccactggcagcgtg	D29016
21452	tgtagccactggcagcgtgccgact	D29016
21453	gccgactgctgcacttgtgaggcca	D29016
21454	tgctgcacttgtgaggccacgtgtg	D29016
21455	agcctagtgaacctggctagaatgc	D29016
21456	tttgaaacagcctttgaatacctat	D29016
21457	acagcctttgaatacctatgacaat	D29016
21458	aagcaggtcatctccaagatcagga	D29016
21459	gtcatctccaagatcaggacacaga	D29016
21460	atcaggacacagaaccttcccaact	D29016
21461	tactcgcccatttacctgtcattta	D29016
21462	tacctgtcatttatcatgctcttgg	D29016
21463	atcatgctcttggctgccctgagct	D29016
21464	ctgagctggcagtacctgagcaccc	D29016
21465	tggcagtacctgagcaccctgtccc	D29016
21466	ctagactgatcgatcctccggaact	W65021
21467	tgatcgatcctccggaactagacac	W65021
21468	ctgcactctgatcacggccattcac	W65021
21469	tctgatcacggccattcacacatgc	W65021
21470	cacggccattcacacatgcacatgg	W65021
21471	cattcacacatgcacatggacacgg	W65021
21472	cacatgcacatggacacggccatga	W65021
21473	cacatggacacggccatgatcacgg	W65021
21474	gacacggccatgatcacggtcaagc	W65021
21475	gccatgatcacggtcaagcacggct	W65021
21476	atcacggtcaagcacggcttcacgg	W65021
21477	gtatttctccatgtgttggcagaac	W65021
21478	atcctccggaactagacacaacatg	W65021
21479	tagacacaacatgctgacaccagtt	W65021
21480	caacatgctgacaccagtttccgtc	W65021
21481	tggtatctgtgccttcagccacgcc	W65021
21482	ccatggccatgggcttctcaaggac	W65021
21483	ccatgggcttctcaaggactgcact	W65021
21484	gcttctcaaggactgcactctgatc	W65021
21485	caaggactgcactctgatcacggcc	W65021
21486	cacatgggcaccaatgtcattgttg	D29015
21487	ggcaccaatgtcattgttgctaaca	D29015
21488	caagaagccatctagcaagctgctg	D29015

SEQ ID NO:	sequence	DBAxnID
64025	tgcacccgagctgctggcacagagg	AA061016
64026	gctgctggcacagagggctacgatg	AA061016
64027	ggctacgatgagtcctgcgatctat	AA061016
64028	gatgagtcctgcgatctatggagcc	AA061016
64029	gagtcctgcgatctatggagcctgg	AA061016
64030	cttggaactctgacctagcacctat	X69026
64031	tcttccctaagccactcctatgagt	X69026
64032	gtccgcactgcagcctaagctggag	X69026
64033	actgcagcctaagctggagagaggt	X69026
64034	aggtttgatcctgagagcctcatcc	X69026
64035	ctcatcctacatccctagagaaggc	X69026
64036	ctacatccctagagaaggcaccctt	X69026
64037	tcctctgtactcctctcatggtgta	X69026
64038	agggtctctccaacatttggctgaa	X69026
64039	tctccaacatttggctgaacttgaa	X69026
64040	acatttggctgaacttgaagggcaa	X69026
64041	aggtcaagccccaatgcctgtccta	X69026
64042	cactcctatgagtgttatcattcct	X69026
64043	tgttatcattcctgagggctgataa	X69026
64044	ctgataagacaaccctgtctcaggg	X69026
64045	agacaaccctgtctcagggtcctga	X69026
64046	ctcagggtcctgaggctggcaccca	X69026
64047	gcaaggtcaccttgacactggtacc	X69026
64048	tgacactggtaccatggtaaccttg	X69026
64049	cctggcactggcctccacagaaagg	X69026
64050	aatcgccttggtttagctccatatg	AA061002
64051	atcgccttggtttagctccatatga	AA061002
64052	tttagctccatatgaaagctttgaa	AA061002
64053	acttctcatggctgatgagaacgcg	AA061002
64054	cttctcatggctgatgagaacgcgc	AA061002
64055	ttctcatggctgatgagaacgcgca	AA061002
64056	tctcatggctgatgagaacgcgcaa	AA061002
64057	tgagaacgcgcaaggcttcgaaggt	AA061002
64058	agaacgcgcaaggcttcgaaggtgt	AA061002
64059	gaacgcgcaaggcttcgaaggtgtt	AA061002
64060	aacgcgcaaggcttcgaaggtgttg	AA061002
64061	acgcgcaaggcttcgaaggtgttga	AA061002
64062	tcgccttggtttagctccatatgaa	AA061002
64063	cgcgcaaggcttcgaaggtgttgat	AA061002
64064	cgccttggtttagctccatatgaaa	AA061002
64065	gccttggtttagctccatatgaaag	AA061002
64066	ccttggtttagctccatatgaaagc	AA061002
64067	ttggtttagctccatatgaaagctt	AA061002
64068	tggtttagctccatatgaaagcttt	AA061002
64069	ggtttagctccatatgaaagctttg	AA061002
64070	gtttagctccatatgaaagctttga	AA061002
64071	tggtccagcaccagcaatttggact	AA061037
64072	ggtccagcaccagcaatttggactg	AA061037
64073	aatatgcgcagttcagtgagccgtc	AA061037
64074	atatgcgcagttcagtgagccgtca	AA061037
64075	atgcgcagttcagtgagccgtcaaa	AA061037
64076	tgcgcagttcagtgagccgtcaaat	AA061037
64077	cgcagttcagtgagccgtcaaatgt	AA061037
64078	agttcagtgagccgtcaaatgtagc	AA061037
64079	tagcaaacagcttgacttctttggt	AA061037
64080	agcaaacagcttgacttctttggtg	AA061037
64081	gacttctttggtgttatattgcatg	AA061037
64082	atattgcatgactgttgagtgctct	AA061037
64083	ccagcaccagcaatttggactggaa	AA061037
64084	agcaccagcaatttggactggaagg	AA061037
64085	gcaccagcaatttggactggaagga	AA061037
64086	gtcactccggtctattaagaggtgc	AA061037
64087	tcactccggtctattaagaggtgca	AA061037
64088	actccggtctattaagaggtgcaat	AA061037
64089	ttagcttccacagtgaatatgcgca	AA061037
64090	tgaatatgcgcagttcagtgagccg	AA061037
64091	atactatgggcccagcacctaaagc	X67914
64092	cagcacctaaagccaccctgggag	X67914

SEQ ID NO	sequence	DBAxnID
106629	cacttctcagcaggatccacatacc	AA139709
106630	ttctcagcaggatccacatacccta	AA139709
106631	tcagcaggatccacatacctaagg	AA139709
106632	gcaggatccacatacctaaggagt	AA139709
106633	ggatccacatacctaaggagtgga	AA139709
106634	cagtagacaaacactcctggtgtgt	AA139709
106635	tagacaaacactcctggtgtgtcac	AA139709
106636	tcacaggattcagctctgtttccta	AA139709
106637	cggctgtctcctggaatgaagaaag	AA139709
106638	ggcactctgagagctgccatctttt	AA139709
106639	ctgagagctgccatcttttccttgt	AA139709
106640	agagctgccatcttttccttgtttg	AA139709
106641	gctgccatcttttccttgtttgccg	AA139709
106642	tggtatcctgctgatggaaattgtc	J03023
106643	aattgtcacctatggccggatccct	J03023
106644	tcagtgccttgacacgcccaacttg	J03023
106645	caacttgctgggcccactctcagac	J03023
106646	accacacacactgcagctgttgagt	J03023
106647	ggaggacttcacaatctctttctga	J03023
106648	cttcacaatctctttctgactctag	J03023
106649	aatctctttctgactctagtcatct	J03023
106650	gtcatctgcaatccgccactctcag	J03023
106651	tggtatgtctcatttgcctggaatg	J03023
106652	gtctcatttgcctggaatgactgaa	J03023
106653	attcaatctatagctgtgatttaag	J03023
106654	ttacccaggtatgtcaaacccagag	J03023
106655	gtaccgtatgcctcgaccagataac	J03023
106656	tatgcctcgaccagataactgtcca	J03023
106657	tcgaccagataactgtccagaagag	J03023
106658	cacggccactgagagccagtatcag	J03023
106659	gcagcagccttgacagcagtaagga	J03023
106660	gcagagccagaagccccatcagtgc	J03023
106661	ccagaagccccatcagtgccttgac	J03023
106662	gcacgaggccaattcgagtgggaga	AA027739
106663	cgaggccaattcgagtgggagacga	AA027739
106664	gtaaacgccctgcagaagatatgga	AA027739
106665	aacgccctgcagaagatatggaaga	AA027739
106666	acgccctgcagaagatatggaagag	AA027739
106667	gaatattaaggctctccgtacagac	AA027739
106668	atattaaggctctccgtacagacta	AA027739
106669	ttaaggctctccgtacagactacaa	AA027739
106670	taaggctctccgtacagactacaat	AA027739
106671	tccgtacagactacaatgccagtgt	AA027739
106672	ccgtacagactacaatgccagtgtt	AA027739
106673	gtacagactacaatgccagtgtttc	AA027739
106674	aggccaattcgagtgggagacgagc	AA027739
106675	tacagactacaatgccagtgtttca	AA027739
106676	ccaattcgagtgggagacgagcacg	AA027739
106677	caattcgagtgggagacgagcacga	AA027739
106678	acgagcacgacggcctattggtgga	AA027739
106679	agcacgacggcctattggtggatcc	AA027739
106680	tggatccattttcttgaattaaatg	AA027739
106681	atttggtaaacgccctgcagaagat	AA027739
106682	tggtaaacgccctgcagaagatatg	AA027739
106683	agtgcttaggcacaatctagtcttt	AA168362
106684	tgcttaggcacaatctagtcttttg	AA168362
106685	gtcactattcatcaccaaatttaag	AA168362
106686	ctattcatcaccaaatttaagatgt	AA168362
106687	attcatcaccaaatttaagatgtta	AA168362
106688	tcatcaccaaatttaagatgttaca	AA168362
106689	agagaaagttccacacactgagtga	AA168362
106690	aaagttccacacactgagtgacagt	AA168362
106691	acataggcatatccacacactgagt	AA168362
106692	ataggcatatccacacactgagtga	AA168362
106693	aggcatatccacacactgagtgaca	AA168362
106694	gcatatccacacactgagtgacagt	AA168362
106695	taggcacaatctagtcttttggttg	AA168362
106696	ggcacaatctagtcttttggttgtc	AA168362

TABLE 1

SEQ ID NO	sequence	DBAxnID
21489	gctggctcataccctcagaagagca	D29015
21490	gagtaacctagtcatggcaaagaag	D29015
21491	gggaccagtcccagagcagctacag	D29015
21492	agtcccagagcagctacagaaaggg	D29015
21493	aggactgtcttccactgcctggact	D29015
21494	cactgcctggactcctctcaagttg	D29015
21495	ctggactcctctcaagttgaagtca	D29015
21496	tcctctcaagttgaagtcatcgtct	D29015
21497	atcgtcttcatcttcctccgtatct	D29015
21498	attgttgctaacacgatgccctctc	D29015
21499	cacctcagcaatggacagatgtgtg	D29015
21500	ccaccaagtggctcgggatctgaat	D29015
21501	tctgaatcctacaagctcctgccag	D29015
21502	aagctcctgccaggagccatcacca	D29015
21503	cagccaacgatcaccaagcaagaag	D29015
21504	acgatcaccaagcaagaagccatct	D29015
21505	accaagcaagaagccatctagcaag	D29015
21506	cgctgatcatcagcgttgagaaacc	W65045
21507	atgaccagctcactgtaccgctaga	W65045
21508	tctctgtccatagtactttcatggt	W65045
21509	tccatagtactttcatggtgcgctg	W65045
21510	tgcgctgtgtgctattccgtcgtga	W65045
21511	gtgtgctattccgtcgtgatattat	W65045
21512	tattccgtcgtgatattattccctg	W65045
21513	tcgccaccatcaggaccaactgcag	W65045
21514	ccatcaggaccaactgcagatgcta	W65045
21515	actgcagatgctagtctgtagactc	W65045
21516	agtctgtagactcctgctccactgg	W65045
21517	cctgctccactggattcaagattag	W65045
21518	agctcactgtaccgctagatccaca	W65045
21519	tttatgatcatcacactgtcgtacg	W65045
21520	ctgtaccgctagatccacattggct	W65045
21521	cgctagatccacattggctgctgtg	W65045
21522	atccacattggctgctgtgaaccat	W65045
21523	attggctgctgtgaaccatgctaac	W65045
21524	tgctgtgaaccatgctaacgcagat	W65045
21525	gaaccatgctaacgcagatttcgtg	W65045
21526	gatgtgtctctgtccatagtacttt	W65045
21527	aactctaatgcatgcaagaacccat	D25282
21528	aatgcatgcaagaacccattaggtt	D25282
21529	tgttctttcttcctggtagtgccaa	D25282
21530	ttgagacccgtggatccttctgcgg	D25282
21531	tctgcggaccctaattacacaaagt	D25282
21532	gaccctaattacacaaagtggagct	D25282
21533	ttctttctaaacttgaactctgact	D25282
21534	ctaaacttgaactctgactttgcta	D25282
21535	ttgaactctgactttgctagacata	D25282
21536	tctgactttgctagacatagaaggc	D25282
21537	tatctaaaatccaattgtatccact	D25282
21538	aaatccaattgtatccactgacaca	D25282
21539	acctgtactgccttctgtttgagtg	D25282
21540	actgccttctgtttgagtgcaaaac	D25282
21541	ctgtactagccaaatacgctgaaag	D25282
21542	tagccaaatacgctgaaagtgtgtg	D25282
21543	tcaatgtcctgtatccatgctcgtc	D25282
21544	tcctgtatccatgctcgtcatgtgg	D25282
21545	gctcgtcatgtggattcttaactga	D25282
21546	ccgtctcaaatgtttctttaatctg	D25282
21547	tttaccatgggcacactctcaccac	W65062
21548	tcaccaccaagatcaagttctctga	W65062
21549	aggaccactgcagcattgccagcag	W65062
21550	actgcagcattgccagcaggtgctg	W65062
21551	gcattgccagcaggtgctgtccacc	W65062
21552	gtccacctgtggaatgccatgaact	W65062
21553	atgaactgggttctctgggagctgt	W65062
21554	ctctgggagctgtctactgtaaagc	W65062
21555	tctactgtaaagccttcttggtctc	W65062
21556	gtaaagccttcttggtctcacagcc	W65062
64093	tctgcatgcccaggtacctcagttt	X67914
64094	agaatctcctcattcactctgtcct	X67914
64095	tcctcattcactctgtcctggagtt	X67914
64096	ctgtcctggagttgggttctggctc	X67914
64097	ctccttcacacctaggactctgaaa	X67914
64098	cacacctaggactctgaaatgagca	X67914
64099	atgagcaagcacttcagacagtcag	X67914
64100	caagagtctagctgtctggtgggca	X67914
64101	tctagctgtctggtgggcacccaaa	X67914
64102	gtgggcacccaaaatgaccagggct	X67914
64103	ctgaaccaatcccaagatctggaaa	X67914
64104	gcatgagcacttaccaggcaaaagc	X67914
64105	gcacttaccaggcaaaagctccgtg	X67914
64106	accaggcaaaagctccgtgagcgta	X67914
64107	ctccgtgagcgtatctgctgtcctt	X67914
64108	gagcgtatctgctgtccttctgcat	X67914
64109	atctgctgtccttctgcatgcccag	X67914
64110	tgtccttctgcatgcccaggtacct	X67914
64111	agaacacaggcagtgtctccgtgac	AA061041
64112	aacacaggcagtgtctccgtgacac	AA061041
64113	ccagtgcctctggaagtcattgtga	AA061041
64114	tgcctctggaagtcattgtgattga	AA061041
64115	attgaccagaacgacaacagaccca	AA061041
64116	cagaacgacaacagacccatcttcc	AA061041
64117	gaacgacaacagacccatcttccgg	AA061041
64118	gacaacagacccatcttccgggaag	AA061041
64119	cccttacatcggccatgtcatggaa	AA061041
64120	cttacatcggccatgtcatggaagg	AA061041
64121	tacatcggccatgtcatggaagggt	AA061041
64122	tcggccatgtcatggaagggtcacc	AA061041
64123	ggcagtgtctccgtgacacggaccc	AA061041
64124	ggtcacccacagggaccacggtgat	AA061041
64125	gtgtctccgtgacacggaccctgga	AA061041
64126	ctccgtgacacggaccctggacaga	AA061041
64127	aaacgatcgctacttatcaactgta	AA061041
64128	gatcgctacttatcaactgtatgtg	AA061041
64129	gctacttatcaactgtatgtggaaa	AA061041
64130	aaactctggaagggccagtgcctct	AA061041
64131	agggccagtgcctctggaagtcatt	AA061041
64132	ccccttacagctgtcctgaggacac	X04367
64133	cttacagctgtcctgaggacacaga	X04367
64134	agacgtcccatgcaggacaagagac	X04367
64135	acgggattaccacctcaactgccag	X04367
64136	gttctaaccctgaaccaatgaacat	X04367
64137	accctgaaccaatgaacattgcaag	X04367
64138	ctagctggttggctagctggcatct	X04367
64139	gagtactgctcacaatggtaccaaa	X04367
64140	ggactcgagataacccacatttaga	X04367
64141	ctcgagataacccacatttagacac	X04367
64142	gagataacccacatttagacaccgg	X04367
64143	cacatttagacaccggaagtgctat	X04367
64144	acagctgtcctgaggacacagaaga	X04367
64145	cgagacccttttttcatatcatgaa	X04367
64146	gacccttttttcatatcatgaagcc	X04367
64147	ttcatatcatgaagccagcaagagt	X04367
64148	atatcatgaagccagcaagagtggc	X04367
64149	tcatgaagccagcaagagtggcaga	X04367
64150	gtcaccagcagcgtgtggacagaca	X04367
64151	accagcagcgtgtggacagacatga	X04367
64152	aggccctctttctgatgcctgtaga	X63190
64153	tcagagctccactatcccatctgat	X63190
64154	accacagagatccagtgttctattc	X63190
64155	tctattctggggacatacagggact	X63190
64156	ttcccttgtttattatggcaacagg	X63190
64157	ttatggcaacagggccaaggggatt	X63190
64158	aagttctgcctggcttctgccctga	X63190
64159	tgcctggcttctgccctgaacaggg	X63190
64160	ctaattccacctttgcctcttatgc	X63190
106697	cacaatctagtcttttggttgtcac	AA168362
106698	caatctagtcttttggttgtcacta	AA168362
106699	tcttttggttgtcactattcatcac	AA168362
106700	ttggttgtcactattcatcaccaaa	AA168362
106701	ggttgtcactattcatcaccaaatt	AA168362
106702	ttgtcactattcatcaccaaattta	AA168362
106703	gctcgaaaggcgctgtttgagaagt	AA050715
106704	aggtcacagagtttcggtgtggcca	AA050715
106705	aatttctcctccagctggagtgacg	AA050715
106706	tcctccagctggagtgacggcatgg	AA050715
106707	agtgacggcatggccttctgtgccc	AA050715
106708	gccttctgtgccctggtgcactcct	AA050715
106709	tgtgccctggtgcactccttcttcc	AA050715
106710	tccttcttccctgatgccttcgact	AA050715
106711	gatgccttcgactacaatgccctga	AA050715
106712	gccttcgactacaatgccctgagtc	AA050715
106713	gactacaatgccctgagtcccacac	AA050715
106714	aatgccctgagtcccacacaaaggc	AA050715
106715	ttcggtgtggccagtgccagcagca	AA050715
106716	ctgagtcccacacaaaggcagaaga	AA050715
106717	agtgccagcagcatcaaacagatcc	AA050715
106718	agcatcaaacagatcctgctagagt	AA050715
106719	cagatcctgctagagtggtgccgca	AA050715
106720	atcctgctagagtggtgccgcagca	AA050715
106721	tggtgccgcagcaagactgtgggct	AA050715
106722	tgccgcagcaagactgtgggctatc	AA050715
106723	cagcacgtggacctgcagaatttct	AA050715
106724	gggccttccaaggtgcagctggact	W09925
106725	ccttccaaggtgcagctggactgtc	W09925
106726	attgtgggcagtcccttcaaagcaa	W09925
106727	cggttgtctggaggccacagcttca	W09925
106728	ttgtctggaggccacagcttcacga	W09925
106729	ggaggccacagcttcacgaaacatc	W09925
106730	ggccacagcttcacgaaacatccac	W09925
106731	cacagcttcacgaaacatccacagt	W09925
106732	ttcacgaaacatccacagttctggt	W09925
106733	acgaaacatccacagttctggtgga	W09925
106734	ccacagttctggtggagacggtgac	W09925
106735	cggtgaccaagtcctcctcgagccg	W09925
106736	aaggtgcagctggactgtcgggaat	W09925
106737	catgtagtcacttacactcccatgg	W09925
106738	cctggtaactacctcattgctatca	W09925
106739	ggtaactacctcattgctatcaagt	W09925
106740	attgctatcaagtatggtggccctc	W09925
106741	tatggtggccctcagcacattgtgg	W09925
106742	ggcccctcagcacattgtgggcagtc	W09925
106743	cctcagcacattgtgggcagtccct	W09925
106744	caccagtccttggacgattctgtgg	L24755
106745	tccttggacgattctgtggcagtaa	L24755
106746	agctggtgttccagaccttcgaggt	L24755
106747	agctctttgatggctacgacagcac	L24755
106748	gctacgacagcacagctcccagact	L24755
106749	cagctcccagactggggcgctactg	L24755
106750	ccagactggggcgctactgtggttc	L24755
106751	ctcccgaggaagtgtactcggctgg	L24755
106752	tgtactcggctggagattctgtcct	L24755
106753	gagattctgtcctggtgaagttcca	L24755
106754	agttccactctgacgacaccatctc	L24755
106755	tgcggtacacaagcaccaagttcca	L24755
106756	agaagcctgagccagtcctggctac	L24755
106757	tggctacaggcaaccgcatgttctt	L24755
106758	caggcaaccgcatgttcttgcgctt	L24755
106759	accgcatgttcttgcgcttctactc	L24755
106760	tgttcttgcgcttctactcagacaa	L24755
106761	cagacaactcggtacagaggaaagg	L24755
106762	cccatgcccagttcggcgataacaa	L24755
106763	tcatcgtggccgaggaaggctatgg	L24755
106764	agtgctctggaggctatcctgctgc	X16834

TABLE 1

SEQ ID NO	sequence	DBAxnID
21557	tggtctcacagcctggagcctggat	W65062
21558	gacaaaaccaagccattaatgatat	W65062
21559	tcaagttctctgacgtcctgcacac	W65062
21560	tctctgacgtcctgcacaccatcaa	W65062
21561	atgctttcgtagcctcagagtaccc	W65062
21562	tcgtagcctcagagtacccagtcat	W65062
21563	cctcagagtacccagtcatcctgtc	W65062
21564	agtacccagtcatcctgtccatcga	W65062
21565	tcctgtccatcgaggaccactgcag	W65062
21566	ccatcgaggaccactgcagcattgc	W65062
21567	gttcccaacaaactcataaagtcat	L42337
21568	ggcctcatatttgggtcacatcgtt	L42337
21569	gtctgcatggtcacgaaggagtgct	L42337
21570	tgcatggtcacgaaggagtgctcta	L42337
21571	gattaacttacacactgttatagca	L42337
21572	taacttacacactgttatagcaatg	L42337
21573	gcaatttaacagacctcaagaatct	L42337
21574	taacagacctcaagaatctgaggaa	L42337
21575	cagacctcaagaatctgaggaatca	L42337
21576	aagtggcaattccactgtctgataa	L42337
21577	caattccactgtctgataagggctt	L42337
21578	ttccactgtctgataagggcttctg	L42337
21579	ctcatatttgggtcacatcgttaaa	L42337
21580	agatactgttctccaaaggagagcc	L42337
21581	tgttctccaaaggagagccagggtt	L42337
21582	cctgttactcaggcgagtggagagc	L42337
21583	tggaagctccagactgcagccttgc	L42337
21584	aagctccagactgcagccttgcaga	L42337
21585	actgcagccttgcagagtaactcgg	L42337
21586	attgtctgcatggtcacgaaggagt	L42337
21587	aacattgtcaacgtgtggcctagtg	AA008043
21588	attgtcaacgtgtggcctagtggtc	AA008043
21589	caaggcgctgtcaaggctgtggcat	AA008043
21590	tggtgtccctggcagtccaatatcc	AA008043
21591	tgtccctggcagtccaatatcctgg	AA008043
21592	ccctggcagtccaatatcctggcaa	AA008043
21593	cagtccaatatcctggcaacaggag	AA008043
21594	tccaatatcctggcaacaggaggag	AA008043
21595	ggaaccagtgaccggcacattcgca	AA008043
21596	accagtgaccggcacattcgcattt	AA008043
21597	gaccggcacattcgcatttggaacg	AA008043
21598	cggcacattcgcatttggaacgtct	AA008043
21599	gtcaacgtgtggcctagtggtcctg	AA008043
21600	gtgtggcctagtggtcctggagaaa	AA008043
21601	cctagtggtcctggagaaagtggat	AA008043
21602	ctgcaaacattcactcaacatcaag	AA008043
21603	caaacattcactcaacatcaaggcg	AA008043
21604	ttcactcaacatcaaggcgctgtca	AA008043
21605	actcaacatcaaggcgctgtcaagg	AA008043
21606	caacatcaaggcgctgtcaaggctg	AA008043
21607	ccttgcacattatcatttgttgaaa	D10071
21608	aattttgacaacagaccactcattt	D10071
21609	aggaagactccactaagttcagtgt	D10071
21610	actccactaagttcagtgttctgag	D10071
21611	tcagtgttctgagcctttacttttg	D10071
21612	ttctgagcctttacttttgcataaa	D10071
21613	tactttccttatttatcaatcaaag	D10071
21614	attcatcaaatcacccctgttttca	D10071
21615	caaatcacccctgttttcaatcgat	D10071
21616	acccctgttttcaatcgatcgctgt	D10071
21617	gttttcaatcgatcgctgtcagact	D10071
21618	aatcgatcgctgtcagactatattg	D10071
21619	gacaacagaccactcattttacatg	D10071
21620	agaccactcattttacatggagagt	D10071
21621	agtgagacatctattgctgggtctg	D10071
21622	acatctattgctgggtctgtacttc	D10071
21623	taccctaagtgtactccaagagaca	D10071
21624	aagtgtactccaagagacaggaggc	D10071

SEQ ID NO:	sequence	DBAxnID
64161	ttgcctcttatgccagaccttaata	X63190
64162	cttatgccagaccttaataaagcct	X63190
64163	ccagaccttaataaagcctctgctt	X63190
64164	tatcccatctgatactcctggccag	X63190
64165	gactcagctgctaaccagagtctgc	X63190
64166	gctgctaaccagagtctgcgggaaa	X63190
64167	aaccagagtctgcgggaaagacagt	X63190
64168	agtagctgaagttcgctgtggctca	X63190
64169	tgaagttcgctgtggctcacctgta	X63190
64170	acctgtaccttcagttcagcttggc	X63190
64171	accttcagttcagcttggcctctgc	X63190
64172	cctgtgcctctgggcatttggacac	X12807
64173	tggacacttcttgctgtttgagaat	X12807
64174	cctgatggagctctgtgtgtaccta	X12807
64175	ggatctccattttctctctactctg	X12807
64176	tactctgtctgccatctagatattg	X12807
64177	gcactttctctccagcatgctctgt	X12807
64178	cagcatgctctgtgacacatagcag	X12807
64179	tgacacatagcagctcccaaagcat	X12807
64180	gctcccaaagcattctacgatacgc	X12807
64181	aaagcattctacgatacgccagtga	X12807
64182	atgagcatccgtgactctgaccctc	X12807
64183	gaccctcattttgagatctgtacag	X12807
64184	cttcttgctgtttgagaattggctc	X12807
64185	tgtacagagctgtccgttcctttca	X12807
64186	agagccaccacatggagcaagatac	X12807
64187	cacatactgtgtccaatactgattt	X12807
64188	ctgtgtccaatactgatttgaaaga	X12807
64189	agtagccttgcgtattctgctgagc	X12807
64190	tattctgctgagcttcatccacaca	X12807
64191	gctgagcttcatccacacagttaaa	X12807
64192	ttaacacctgatggagctctgtgtg	X12807
64193	acacgcatcacctttgagaaggaag	AA061086
64194	cccaacatcatccctgctgacatta	AA061086
64195	cttgatgaccggctgctcaacatcc	AA061086
64196	gatgaccggctgctcaacatcccta	AA061086
64197	gaccggctgctcaacatccctatca	AA061086
64198	ctgctcaacatccctatcaacgaca	AA061086
64199	ctcaacatccctatcaacgacattg	AA061086
64200	aacatccctatcaacgacattgtcc	AA061086
64201	atcaacgacattgtccaccctaagt	AA061086
64202	caccctaagtacttcaagattgtgc	AA061086
64203	gggatgccactgcctgagaacccca	AA061086
64204	atgccactgcctgagaaccccagca	AA061086
64205	atcatccctgctgacattatcttca	AA061086
64206	ctgcctgagaaccccagcaagaagg	AA061086
64207	cctgctgacattatcttcattgtga	AA061086
64208	gctgacattatcttcattgtgaagg	AA061086
64209	cctcgcttccgcagggagcatgaca	AA061086
64210	cgcttccgcagggagcatgacaacc	AA061086
64211	gagcatgacaacctcttcttcgtgt	AA061086
64212	cctttgggcaaggcctgtacctgct	AA061086
64213	gcctgtacctgctgcactgtggagg	AA061086
64214	cgacacggacagtgaggatgagctg	AA061170
64215	gagagaaccaccaaggacggctggg	AA061170
64216	ctacgccaatcacactgaggagaag	AA061170
64217	tacgccaatcacactgaggagaaga	AA061170
64218	acgccaatcacactgaggagaagac	AA061170
64219	cgccaatcacactgaggagaagacc	AA061170
64220	gccaatcacactgaggagaagaccc	AA061170
64221	ccaatcacactgaggagaagaccca	AA061170
64222	gagaaccaccaaggacggctgggtg	AA061170
64223	gggtgtactacgccaatcacactga	AA061170
64224	ggtgtactacgccaatcacactgag	AA061170
64225	gtgtactacgccaatcacactgagg	AA061170
64226	tgtactacgccaatcacactgagga	AA061170
64227	gtactacgccaatcacactgaggag	AA061170
64228	tactacgccaatcacactgaggaga	AA061170

SEQ ID NO	sequence	DBAxnID
106765	gtgctctggaggctatcctgctgct	X16834
106766	cacgccatgatctaagccagaaggg	X16834
106767	cgccatgatctaagccagaagggc	X16834
106768	ggcggcaccgaaacgccctgtgtgc	X16834
106769	gcggcaccgaaacgccctgtgtgcc	X16834
106770	gcaccgaaacgccctgtgtgcctta	X16834
106771	caccgaaacgccctgtgtgccttag	X16834
106772	cgaaacgccctgtgtgccttaggag	X16834
106773	gaaacgccctgtgtgccttaggagt	X16834
106774	aaacgccctgtgtgccttaggagtg	X16834
106775	ttcttgtaagacatcccatttaata	X16834
106776	tgctctggaggctatcctgctgctg	X16834
106777	ttaataaagtctcatgctgagagag	X16834
106778	cttatggtgtccccgctggaccact	X16834
106779	ccaactggggatcagtggtgacata	X16834
106780	ccagcgctaaccacgccatgatcta	X16834
106781	cagcgctaaccacgccatgatctaa	X16834
106782	gcgctaaccacgccatgatctaagc	X16834
106783	cgctaaccacgccatgatctaagcc	X16834
106784	gctaaccacgccatgatctaagcca	X16834
106785	aatccctcttctgcttgctaaatct	W10072
106786	ccctcttctgcttgctaaatctcac	W10072
106787	atctcccatctctctggatttcttt	W10072
106788	gcccaccaattcatttccagacttt	W10072
106789	caattcatttccagactttgtactt	W10072
106790	ttcatttccagactttgtacttcag	W10072
106791	agactttgtacttcagaagcgatgg	W10072
106792	tgtacttcagaagcgatggggaaaa	W10072
106793	atcagcagcctttcaacttcaatta	W10072
106794	gatctgcctctggtgacttcttgaa	W10072
106795	ctgcctctggtgacttcttgaagat	W10072
106796	cctctggtgacttcttgaagatata	W10072
106797	tcttctgcttgctaaatctcactgt	W10072
106798	tgctaaatctcactgtcactgctaa	W10072
106799	taaatctcactgtcactgctaaatt	W10072
106800	tcactgtcactgctaaattcagagc	W10072
106801	cagatagagcctgcgcaatggaata	W10072
106802	atagagcctgcgcaatggaataaag	W10072
106803	atgtgacattgctctaacatctccc	W10072
106804	tgctctaacatctcccatctctctg	W10072
106805	atttcacaaaccacaatggcacagg	W82441
106806	caaaccacaatggcacaggggcaa	W82441
106807	ctcccagttcttcctgacctgtgat	W82441
106808	cccagttcttcctgacctgtgataa	W82441
106809	cagttcttcctgacctgtgataaga	W82441
106810	gttcttcctgacctgtgataagaca	W82441
106811	tcttcctgacctgtgataagacaga	W82441
106812	ttcctgacctgtgataagacagatt	W82441
106813	agacagattggctggacggcaagca	W82441
106814	ggtcacggaaggcctggatgtcttg	W82441
106815	tcacggaaggcctggatgtcttgcg	W82441
106816	tcttgcggcagatcgaggctcaggg	W82441
106817	aaccacaatggcacaggggcaagt	W82441
106818	ggcaagtccatctatgggaagaagt	W82441
106819	caagtccatctatgggaagaagttt	W82441
106820	cttcatccttaaacacacaggacca	W82441
106821	tcatccttaaacacacaggaccagg	W82441
106822	ttaaacacacaggaccaggcctcct	W82441
106823	acaggaccaggcctcctctccatgg	W82441
106824	tctccatggccaattctggcccgaa	W82441
106825	aaatgtcaccatccaatgtgactct	M17122
106826	tggctttgccatgctgggttcccaa	M17122
106827	ctacaagctgactctggaggttgaa	M17122
106828	ggttgaactactacagctccagata	M17122
106829	tgaagcacactgaccgggagttatg	M17122
106830	ttctgacttcagttccaaacagatt	M17122
106831	cttcagttccaaacagattgcctgc	M17122
106832	ttccaaacagattgcctgcagttac	M17122

TABLE 1

SEQ ID NO	sequence	DBAxnID
21625	ctgtcctttcaggaagcattacgga	D10071
21626	atgaatctcgcataaaacaatttta	D10071
21627	gtgtcacaaagccagatcaagagaa	L42338
21628	atacactgtttacagcctgcgaagg	L42338
21629	ggctacttttttgcgttggtcaatga	L42338
21630	taatcattattgcaatcaagggtga	L42338
21631	tcagaaaaccacatagaacattttc	L42338
21632	tgcctccatttctttccctagattc	L42338
21633	tttccctagattctaagtagatgtg	L42338
21634	agatgtgtacccatgtgaatataga	L42338
21635	aaattcaggcgcacatgctcacagt	L42338
21636	aggcgcacatgctcacagtcacaaa	L42338
21637	acatgctcacagtcacaaacacaaa	L42338
21638	tcacagtcacaaacacaaacaggat	L42338
21639	tgtttacagcctgcgaaggtgactc	L42338
21640	gtgactcactcgtgttaataagact	L42338
21641	gtctatgccaaactctttttatcaa	L42338
21642	ttatcaaatattctcaaggcagcac	L42338
21643	aatattctcaaggcagcacagccac	L42338
21644	gcagcacagccactagctctgatcc	L42338
21645	gcatttacacatggctacttttttgc	L42338
21646	acacatggctacttttgcgttggt	L42338
21647	agcgatacgtcgagcatcatagagt	W65111
21648	gatacgtcgagcatcatagagtacc	W65111
21649	actgtatatcactgagtcgtctcaa	W65111
21650	gtatatcactgagtcgtctcaagtg	W65111
21651	acagcatactctgatctccgaatgc	W65111
21652	gcatactctgatctccgaatgctct	W65111
21653	gatctccgaatgctctcgacacata	W65111
21654	ctccgaatgctctcgacacatacag	W65111
21655	cgaatgctctcgacacatacagcag	W65111
21656	ctctcgacacatacagcagagacgc	W65111
21657	tcgacacatacagcagagacgctaa	W65111
21658	acacatacagcagagacgctaacat	W65111
21659	tccgacacaatgtcagagtcacagc	W65111
21660	tcagagtcacagcctgatgcatggc	W65111
21661	gagtcacagcctgatgcatggcgcc	W65111
21662	tggcgccagactgtcgaaggagctg	W65111
21663	catctatgacgcctagatggacgtg	W65111
21664	tgacgcctagatggacgtgatctcg	W65111
21665	ggacgtgatctcgagcggcgtgaaa	W65111
21666	cgtgatctcgagcggcgtgaaactg	W65111
21667	tctcagtttgcagctgctctagaac	L42339
21668	cagtttgcagctgctctagaacccc	L42339
21669	cccatcactactacattaaaacgca	L42339
21670	tcagctgttatcattcagcgagctt	L42339
21671	gttatcattcagcgagcttataggc	L42339
21672	atcattcagcgagcttataggcgcc	L42339
21673	cgagcttataggcgccacctttga	L42339
21674	gcttataggcgccacctttgaagc	L42339
21675	tataggcgccacctttgaagcgaa	L42339
21676	caagcttcattcacatacaataaga	L42339
21677	gcttcattcacatacaataagaaca	L42339
21678	actgacctgacaatgtccacagcag	L42339
21679	cctctcaatttgccacaaccaaaca	L42339
21680	ttgccacaaccaaacaaacttcagc	L42339
21681	ccacaaccaaacaaacttcagctca	L42339
21682	atggatgctcttcgaatccagatgg	L42339
21683	cttcgaatccagatggaagagcggt	L42339
21684	gtctcttatcagcccatcactacta	L42339
21685	tcttatcagcccatcactactacat	L42339
21686	cagcccatcactactacattaaaac	L42339
21687	aaattatcttcaggttgatatcaca	L42340
21688	ttatcttcaggttgatatcacaatc	L42340
21689	acactcacaacttcacatccaaatt	L42340
21690	acaacttcacatccaaattatgatt	L42340
21691	acttcacatccaaattatgatttgc	L42340
21692	tcacatccaaattatgatttgcaat	L42340

SEQ ID NO:	sequence	DBAxnID
64229	actacgccaatcacactgaggagaa	AA061170
64230	gtccagggaaccaactccactcgct	AA061181
64231	ctccactcgctttctagttttcaat	AA061181
64232	ctgacacaagaatacccagaagaag	AA061181
64233	gaaatccttaaatctgtctatgagt	AA061181
64234	aatccttaaatctgtctatgagtgc	AA061181
64235	tccttaaatctgtctatgagtgcat	AA061181
64236	taaatctgtctatgagtgcatagcg	AA061181
64237	aatctgtctatgagtgcatagcgaa	AA061181
64238	tccaacattagagctatcggcgtga	AA061181
64239	caacattagagctatcggcgtgagt	AA061181
64240	acattagagctatcggcgtgagtaa	AA061181
64241	attagagctatcggcgtgagtaacc	AA061181
64242	ccactcgctttctagttttcaatag	AA061181
64243	actcgctttctagttttcaatagca	AA061181
64244	tcgctttctagttttcaatagcaaa	AA061181
64245	agaactagtttgctctcatcaggtg	AA061181
64246	ctagtttgctctcatcaggtggaac	AA061181
64247	agtttgctctcatcaggtggaactg	AA061181
64248	tttgctctcatcaggtggaactgac	AA061181
64249	tgctctcatcaggtggaactgacac	AA061181
64250	gcctacttctctcactgaagtgcat	X53929
64251	ttctctcactgaagtgcatctagat	X53929
64252	caaactcctcagggtgcctgctggg	X53929
64253	tgctgggctggcacagcataagtat	X53929
64254	tatccaggtcgtctaccttcacaac	X53929
64255	tcacaacaacaacatctccgcagtt	X53929
64256	caacaacatctccgcagttgggcaa	X53929
64257	catctccgcagttgggcaaaatgac	X53929
64258	tcgaaaggcttcctactcggctgtg	X53929
64259	ctttccaaacaccttcagatgtgtc	X53929
64260	atgtgtctatgtgcgttctgccatt	X53929
64261	ctcagacggcctaattcttataatc	X53929
64262	caagatcaccaaggttgatgcaccc	X53929
64263	ggttgatgcacccagcctgaaagga	X53929
64264	attgagcttcaacagcatcaccgtt	X53929
64265	cagcatcaccgttatggagaatggc	X53929
64266	gaatggcagtctggccaatgttcct	X53929
64267	cagtctggccaatgttcctcatctg	X53929
64268	ggccaatgttcctcatctgagggaa	X53929
64269	tcatctgagggaactccacttggac	X53929
64270	gcacgaaattcaccatcttcgataa	X69827
64271	tgaaccctgagcggagttactgggt	X69827
64272	gacacggcctgcttctactgcagaa	X69827
64273	ttctactgcagaacaaggccccatc	X69827
64274	ccccatcgtggagcgacgaaagcgg	X69827
64275	tcaattttcacggtcgcgtctcgcg	X69827
64276	cagtcaagaacttccagatagtgca	X69827
64277	ccgaccacctggtgctccagtttgg	X69827
64278	gccgtgtggccccaaacatattcac	X69827
64279	caaacatattcacgatggatttccg	X69827
64280	tccaagccttcgccatctgcttatc	X69827
64281	ccttcgccatctgcttatccagttt	X69827
64282	acagtgcccggatcagagaggagct	X69827
64283	tgactgtgatccttccaggaatgga	X69827
64284	ttccaggaatggacagccggaagca	X69827
64285	gaatggacagccggaagcagaggat	X69827
64286	acagccggaagcagaggatgaaagt	X69827
64287	tgaaagtccaaccacaaaatgatca	X69827
64288	tccaaccacaaaatgatcaggattc	X69827
64289	ccatattgagtcgcgtacagaaggg	X69827
64290	tcaatttctctgaatgaaagtatat	X51942
64291	ttaaaacccatcagtggtagatcct	X51942
64292	tttttacctctcaggtaagctctga	X51942
64293	cctctcaggtaagctctgatggaat	X51942
64294	aaattattccattcagtacagattg	X51942
64295	tttctacattcattcattatggctc	X51942
64296	cattcattcattatggctctgagaa	X51942

SEQ ID NO	sequence	DBAxnID
106833	tttgtaatgctggcaccaatgttca	M17122
106834	atctatgaaactatcatcttgtggc	M17122
106835	aatttgcttttctgaatgcaatgtg	M17122
106836	cttttctgaatgcaatgtgtacatt	M17122
106837	gctgggttcccaaagcatcagttgt	M17122
106838	gtatccagaggtgcccagatgtgag	M17122
106839	ggcctctgaagaccttaagcctgcg	M17122
106840	ccttaagcctgcgcttacaggcaac	M17122
106841	gcctgcgcttacaggcaacaagacc	M17122
106842	aggcaacaagaccatgcagtatgtg	M17122
106843	caagaccatgcagtatgtgccaaat	M17122
106844	gtatgtgccaaattcacacgatgtg	M17122
106845	tgcgctaggctcccgtccaagtttc	W10116
106846	gctaggctcccgtccaagtttctca	W10116
106847	aatgccgtacaaggatgaggccaga	W10116
106848	ggaaaagctgccttggctggcaagg	W10116
106849	gaatttgatacttgctctagcctc	W10116
106850	tttgataccttgctctagcctcaca	W10116
106851	gataccttgctctagcctcacaggg	W10116
106852	accttgctctagcctcacagggtcg	W10116
106853	ctctagcctcacagggtcgatgagc	W10116
106854	tagcctcacagggtcgatgagctgt	W10116
106855	ggccatcttccctgtgtacatcagg	W10116
106856	ccctgtgtacatcaggtggagcaga	W10116
106857	tttctcaggccctaaattcatcttg	W10116
106858	ctcaggccctaaattcatcttggtg	W10116
106859	ccctaaattcatcttggtggcttgt	W10116
106860	ggcttgtctcagctgatggtctgca	W10116
106861	ttgtctcagctgatggtctgcaatc	W10116
106862	tctcagctgatggtctgcaatctga	W10116
106863	gtctgcaatctgaatgccgtacaag	W10116
106864	ctgaatgccgtacaaggatgaggcc	W10116
106865	aggtgctcggcctggtgaaggactt	W10119
106866	cgcagccctcgacgggacaggtgaa	W10119
106867	atgtggctgcgcagcgtggatcttc	W10119
106868	ctgcgcagcgtggatcttcgagcct	W10119
106869	agcgtggatcttcgagcctgcaggc	W10119
106870	cgagcctgcaggcattgctcgtact	W10119
106871	gcctgcaggcattgctcgtactgct	W10119
106872	tgcaggcattgctcgtactgcttgc	W10119
106873	cattgctcgtactgcttgctgcatg	W10119
106874	tgctcgtactgcttgctgcatgcca	W10119
106875	tcgtactgcttgctgcatgccaggg	W10119
106876	ttgctgcatgccagggaaggagcag	W10119
106877	cctcgtgcttccgcttgtgccttaa	W10119
106878	tccgcttgtgccttaagagcttgga	W10119
106879	gcttgtgccttaagagcttggacat	W10119
106880	gcttggacatgctggtgaagttcca	W10119
106881	tggtgaagttccagccgcagccgtc	W10119
106882	tccagccgcagccgtcgaagtcaca	W10119
106883	agccgtcgaagtcacacaggaaggg	W10119
106884	cgtcgaagtcacacaggaagggtct	W10119
106885	ctacgtctcattctccgcaacgcag	W98255
106886	gcaacgcagttctccggcccgcaag	W98255
106887	cctgctcttcgtcttcaatttcgtc	W98255
106888	gtcttcaatttcgtcttctggctgg	W98255
106889	tcaatttcgtcttctggctggctgg	W98255
106890	aatttcgtcttctggctggctggag	W98255
106891	tttcgtcttctggctggctggaggc	W98255
106892	tcgtcttctggctggctggaggcgt	W98255
106893	cttctggctggctggaggcgtgatc	W98255
106894	tgatcctaggtgtagctctgtggtt	W98255
106895	atcctaggtgtagctctgtggttgc	W98255
106896	cctaggtgtagctctgtggttgcgt	W98255
106897	aacgcagttctccggcccgcaagcg	W98255
106898	tccaggctatctgccagtcccggac	W98255
106899	ccaggaccaatccaagctccgcagg	W98255
106900	aggaccaatccaagctccgcaggcc	W98255

TABLE 1

SEQ ID NO	sequence	DBAxnID
21693	tttgaaatcatgcttctttagattg	L42340
21694	atcatgcttctttagattgttctaa	L42340
21695	tcttttcctcaaaatcagagaggat	L42340
21696	atttgtgtttcttacagaagcagac	L42340
21697	ttttacgccaggcgtggtggcacac	L42340
21698	tacgccaggcgtggtggcacacgct	L42340
21699	tgatatcacaatcacttttcttact	L42340
21700	tatcacaatcacttttcttactttc	L42340
21701	cacaatcacttttcttactttctgt	L42340
21702	ttttcttactttctgtccacagcag	L42340
21703	tcttactttctgtccacagcagttt	L42340
21704	tactttctgtccacagcagtttttc	L42340
21705	gggcaaaatacactcacaacttcac	L42340
21706	aatacactcacaacttcacatccaa	L42340
21707	ttgcttgcctggctaaaatccttca	L08757
21708	gcctggctaaaatccttcattcacc	L08757
21709	caagaaaagcacaccacaattctcc	L08757
21710	cacaccacaattctccctatttaat	L08757
21711	ttggatttcctttatactgtgaagt	L08757
21712	ttcctttatactgtgaagttacatg	L08757
21713	ggtcaaacctgtaggtgcagaaaag	L08757
21714	agcaaatgcattctatcgttattat	L08757
21715	taatattgtattgctgctgtgcgtg	L08757
21716	tattgtattgctgctgtgcgtggaa	L08757
21717	tgtattgctgctgtgcgtggaaaaa	L08757
21718	attgctgctgtgcgtggaaaaagat	L08757
21719	tggctaaaatccttcattcaccttt	L08757
21720	ctaaaatccttcattcacctttgag	L08757
21721	ttcattcacctttgagtttccatat	L08757
21722	caccttgagtttccatatccctgc	L08757
21723	ctttgagtttccatatccctgctgt	L08757
21724	gtttccatatccctgctgttaacaa	L08757
21725	tccatatccctgctgttaacaaata	L08757
21726	atatccctgctgttaacaaataatg	L08757
21727	cagctgccgacagtccgacagtccg	W65274
21728	ctgccgacagtccgacagtccgggg	W65274
21729	ttgagacactgagggcccaagccaa	W65274
21730	agacactgagggcccaagccaaaga	W65274
21731	cactgagggcccaagccaaagacct	W65274
21732	tgagggcccaagccaaagacctggg	W65274
21733	gtgggttcctggccaagaagcaaag	W65274
21734	ggttcctggccaagaagcaaaggag	W65274
21735	tccaggcctcttcccaggagcaatt	W65274
21736	aggcctcttcccaggagcaattgtt	W65274
21737	cctcttcccaggagcaattgttgcc	W65274
21738	ttcctgggggccactcgcttgtctt	W65274
21739	catagcatagctgctttgatggtct	W65274
21740	agcatagctgctttgatggtcttgt	W65274
21741	atagctgctttgatggtcttgtctc	W65274
21742	agactgggattccaggggatcaact	W65274
21743	ttccaggggatcaactccttgagac	W65274
21744	gggatcaactccttgagacactgag	W65274
21745	aactccttgagacactgagggccca	W65274
21746	tccttgagacactgagggcccaagc	W65274
21747	tttcctgtccctggagggccataga	W65989
21748	ttcctgtccctggagggccatagag	W65989
21749	ttcactgatgaacttctgaatggta	W65989
21750	aaatgagatcggccagggtctgtgg	W65989
21751	aatgagatcggccagggtctgtggc	W65989
21752	atgagatcggccagggtctgtggcc	W65989
21753	tctgtggccggtacttctcaaccca	W65989
21754	ctgtggccggtacttctcaacccag	W65989
21755	gccggtacttctcaacccagggcag	W65989
21756	caggcggtcttcactgatgaacttc	W65989
21757	aggcggtcttcactgatgaacttct	W65989
21758	gcggtcttcactgatgaacttctga	W65989
21759	cggtcttcactgatgaacttctgaa	W65989
21760	ggtcttcactgatgaacttctgaat	W65989

SEQ ID NO	sequence	DBAxnID
64297	ttcattatggctctgagaactactt	X51942
64298	actactttgttagcctgcttacata	X51942
64299	ttgttagcctgcttacataaatgtc	X51942
64300	ttacataaatgtcctctgatctaag	X51942
64301	cctctgatctaagactctattaaga	X51942
64302	cccatcagtggtagatccttcagag	X51942
64303	aatttctcagttctctcatcaacattc	X51942
64304	tcagttctcatcaacattcatcaaa	X51942
64305	ctcatcaacattcatcaaatttggg	X51942
64306	aacattcatcaaatttgggactcat	X51942
64307	gactcatatcatttgggctctgtct	X51942
64308	tatcatttgggctctgtctgttcat	X51942
64309	tgttcatttttacctctcaggtaag	X51942
64310	cgcagtaaccctgggaagaatgcat	AA061206
64311	cagtaaccctgggaagaatgcatcg	AA061206
64312	tttgaactggtggccttggccaaga	AA061206
64313	ttgaactggtggccttggccaagat	AA061206
64314	aactggtggccttggccaagattct	AA061206
64315	tggtggccttggccaagattctggt	AA061206
64316	ccttggccaagattctggttggtca	AA061206
64317	ttggccaagattctggttggtcaac	AA061206
64318	ttcgcctattacaggttcttggcgg	AA061206
64319	tcgcctattacaggttcttggcggg	AA061206
64320	agttccgattaaagctctttacatg	AA061206
64321	gattaaagctctttacatggtcggg	AA061206
64322	gaatgcatcgagctcttcaaccaca	AA061206
64323	aatgcatcgagctcttcaaccacat	AA061206
64324	ctcttcaaccacatggagaaccttg	AA061206
64325	tcttcaaccacatggagaaccttgg	AA061206
64326	ttcaaccacatggagaaccttgggg	AA061206
64327	tcaaccacatggagaaccttgggga	AA061206
64328	gagcctgacccctgtaatgttcca	AA061206
64329	tgtaatgttccaactttaagaagca	AA061206
64330	ccagctaccaaactgagctgtgcaa	AA061210
64331	gctaccaaactgagctgtgcaacca	AA061210
64332	tggacaaatcgggctccctgagcat	AA061210
64333	tgatcgacatcttcgacacagacgg	AA061210
64334	tcgacatcttcgacacagacggcaa	AA061210
64335	acatcttcgacacagacggcaacgg	AA061210
64336	tcttcgacacagacggcaacgggga	AA061210
64337	tcgacacagacggcaacggggaagt	AA061210
64338	aagtggacttccacgagttcatcgt	AA061210
64339	acttccacgagttcatcgtgggcac	AA061210
64340	cccagttcagcgtcaagggtgatga	AA061210
64341	agttcagcgtcaagggtgatgaaga	AA061210
64342	accaaactgagctgtgcaaccactt	AA061210
64343	aaactgagctgtgcaaccacttcga	AA061210
64344	ctgagctgtgcaaccacttcgacca	AA061210
64345	agctgtgcaaccacttcgaccagga	AA061210
64346	tgtgcaaccacttcgaccaggaaga	AA061210
64347	gcaaccacttcgaccaggaagagat	AA061210
64348	accacttcgaccaggaagagataag	AA061210
64349	acttcgaccaggaagagataagaag	AA061210
64350		
64351		
64352	LOCAL_TARGET	
64353	aatttagctgactccttaaagcaga	D90156
64354	gctgactccttaaagcagagagcat	D90156
64355	ggagctatccggttccaaagcctct	D90156
64356	agcatttgcagtggatcttgggaac	D90156
64357	tcttgggaaccttccagtgctttgt	D90156
64358	gaaccttccagtgctttgtgtattg	D90156
64359	agctgccgcctgaccaaggtctcct	D90156
64360	tgccgcctgaccaaggtctcctgtg	D90156
64361	ctgaccaaggtctcctgtgctgatg	D90156
64362	aaggtctcctgtgctgatgataccg	D90156
64363	tcctgtgctgatgataccgggaaca	D90156
64364	tgacttcttttgttaactaagcatt	D90156

SEQ ID NO	sequence	DBAxnID
106901	gggctgcaccaaatgcatcaaatac	W98255
106902	gctgcaccaaatgcatcaaatacct	W98255
106903	aatacctgctcttcgtcttcaattt	W98255
106904	tacctgctcttcgtcttcaatttcg	W98255
106905	gccaccaggatgcggacattgaaga	D78645
106906	ttcagccaattatcagcaaactcta	D78645
106907	tagcccaagtggctgtttactgctt	D78645
106908	ctgtttactgcttttcattagcagt	D78645
106909	tttactgcttttcattagcagttgc	D78645
106910	actgcttttcattagcagttgctca	D78645
106911	ctcacatgtcttggggtcagggaga	D78645
106912	gtgtgtgttcaccttggatatggtc	D78645
106913	tgtgttcaccttggatatggtctat	D78645
106914	gttcaccttggatatggtctattta	D78645
106915	gtcatgcacatgtggtgtaggaact	D78645
106916	tttctaccataagtgacaccaataa	D78645
106917	agccaattatcagcaaactctatgg	D78645
106918	caattatcagcaaactctatggaag	D78645
106919	tcagcaaactctatggaagtggagg	D78645
106920	aggtgcactgatctgctagagctgt	D78645
106921	tggaatcttcacctcagagtggagt	D78645
106922	aatcttcacctcagagtggagttga	D78645
106923	cttcacctcagagtggagttgaaaa	D78645
106924	atgctatagcccaagtggctgttta	D78645
106925	tgggtctatatcctctttcgccggt	D10849
106926	ccagcccaggccatgctcagtggac	D10849
106927	cccttgccagcatctgagtctgaga	D10849
106928	ccagcatctgagtctgagacacagg	D10849
106929	acacagggcttcacattcctccagg	D10849
106930	acattcctccaggctcacaggtcac	D10849
106931	caccaacctctccagtgtttcctga	D10849
106932	cagtgtttcctgagccccccttgctc	D10849
106933	cttgctccatggctgcctaacacac	D10849
106934	ccatggctgcctaacacacatgctc	D10849
106935	ctgcctaacacacatgctcaataaa	D10849
106936	aacacacatgctcaataaatggttg	D10849
106937	atgctcagtggaccctgaaggacag	D10849
106938	gtccttggtgactgccattgacctg	D10849
106939	ggtgactgccattgacctgtgccct	D10849
106940	actgcaaagatacctcctctatgct	D10849
106941	aagatacctcctctatgctagagag	D10849
106942	cctcctctatgctagaggaggtcctc	D10849
106943	actactccctgtcagccaggaggct	D10849
106944	gccccctggcaggaatctaggattc	D10849
106945	ggcttacgtctctacaggcctcatc	L10627
106946	tacaggcctcatctggcatcagaga	L10627
106947	agagccctggacatctaggaatgcc	L10627
106948	atctaggaatgcctttcttctctcg	L10627
106949	ctttcttctctcgttccctgcgata	L10627
106950	tgcgatactgctctaagcaaaggtc	L10627
106951	atttctgtgcctagtattacccata	L10627
106952	aacttcaagactcctaacagactga	L10627
106953	aagactcctaacagactgaattggg	L10627
106954	gtaaatagctccactagttgtccaa	L10627
106955	agctccactagttgtccaacagctt	L10627
106956	tgtccaacagcttgttggttaagtg	L10627
106957	tataccatcatgtacagctgctggc	L10627
106958	atcatgtacagctgctggcacgaga	L10627
106959	tacagctgctggcacgagaaagcag	L10627
106960	gctggctgctaagctccgtggatct	L10627
106961	tgctaagctccgtggatctcctcct	L10627
106962	tctctcctacaaaacctaattccat	L10627
106963	agttccctggctgcagctctagctt	L10627
106964	tccatgcgcctactgaatgcatgaa	L10627
106965	agacctacgattacctgttcaagct	AA117665
106966	acgattacctgttcaagctgctgct	AA117665
106967	cattcatctctaccataggaattga	AA117665
106968	tcatctctaccataggaattgactt	AA117665

TABLE 1

SEQ ID NO	sequence	DBAxnID
21761	gtcttcactgatgaacttctgaatg	W65989
21762	tcttcactgatgaacttctgaatgg	W65989
21763	cttcactgatgaacttctgaatggt	W65989
21764	ggcctctccagcaacaatagcactc	U06483
21765	agcaacaatagcactctgagcgtgg	U06483
21766	actgcagagtcacctgcagatggcg	U06483
21767	gcagagtcacctgcagatggcgagg	U06483
21768	gaggttttcgctatccagctgacat	U06483
21769	ttcgctatccagctgacatcttcct	U06483
21770	atccagctgacatcttcctgagcct	U06483
21771	cagctgacatcttcctgagcctata	U06483
21772	ctgacatcttcctgagcctataccc	U06483
21773	gggcctcgcaagcacagaggtggac	U06483
21774	tcgctctctatttattcaactccag	U06483
21775	tctatttattcaactccaggggcgt	U06483
21776	tgtgcagcgaccaatgcgcatgggc	U06483
21777	gcgaccaatgcgcatgggcgccacg	U06483
21778	gtgcaatccaccgcttgcaagaagg	U06483
21779	tacaacgtgcaggaggctgagagct	U06483
21780	aacgtgcaggaggctgagagctcag	U06483
21781	gagaccccaggcactgcagagtcac	U06483
21782	accccaggcactgcagagtcacctg	U06483
21783	ccaggcactgcagagtcacctgcag	U06483
21784	aggggtcgccatgatccgattcatc	W65510
21785	gggtcgccatgatccgattcatcct	W65510
21786	cgcctggccaagtggtacatgcagt	W65510
21787	acatgcagttcgatgacgacgagaa	W65510
21788	tggagtcccggaatttcagaatcac	W65510
21789	gaatttcagaatcacctaccacggt	W65510
21790	tggctcctacttctcaatctccggg	W65510
21791	gaaggtcaccgccacaaatctggcc	W65510
21792	caccgccacaaatctggccaatttc	W65510
21793	ccgccacaaatctggccaatttcag	W65510
21794	gccacaaatctggccaatttcaggg	W65510
21795	cacaaatctggccaatttcagggca	W65510
21796	gtcgccatgatccgattcatcctta	W65510
21797	caaatctggccaatttcagggcaat	W65510
21798	ccatgatccgattcatccttatcca	W65510
21799	atgatccgattcatccttatccaga	W65510
21800	gatccgattcatccttatccagaac	W65510
21801	atccttatccagaaccgggcaggca	W65510
21802	ccttatccagaaccgggcaggcaag	W65510
21803	gcaagacgcgcctggccaagtggta	W65510
21804	cgcgcctggccaagtggtacatgca	W65510
21805	accatcaggagtgccgagcacacca	W65511
21806	catcaggagtgccgagcacaccaac	W65511
21807	aacttcaatatcagctaccgacgct	W65511
21808	acgctacgcttgcctctacttctgc	W65511
21809	gctacgcttgcctctacttctgcat	W65511
21810	cttgcctctacttctgcatctgcgt	W65511
21811	cctctacttctgcatctgcgtggat	W65511
21812	tacttctgcatctgcgtggatgtca	W65511
21813	cttctgcatctgcgtggatgtcaac	W65511
21814	tgcatctgcgtggatgtcaacgaca	W65511
21815	aactagccgatctctaaggcatcca	W65511
21816	ctagccgatctctaaggcatccaca	W65511
21817	gagtgccgagcacaccaacgatgtg	W65511
21818	agccgatctctaaggcatccacaac	W65511
21819	gtgccgagcacaccaacgatgtgga	W65511
21820	cgagcacaccaacgatgtggagttc	W65511
21821	cacaccaacgatgtggagttcccga	W65511
21822	gtggagttcccgaacttcaatatca	W65511
21823	ggagttcccgaacttcaatatcagc	W65511
21824	agttcccgaacttcaatatcagcta	W65511
21825	cccgaacttcaatatcagctaccga	W65511
21826	agactcgctcaacggtggaaatggc	W65530
21827	atggctccggcgaaaggtccgagag	W65530
21828	gcagagaccccaaagagtgtagccc	W65530

SEQ ID NO:	sequence	DBAxnID
64365	cagagagcatcctcttctgaggaga	D90156
64366	agagcatcctcttctgaggagagaa	D90156
64367	tcctcttctgaggagagaaagatgg	D90156
64368	tccagagagccccccttgttaatgtc	D90156
64369	ccctcagtggggcaaactcaggagc	D90156
64370	ttatcataatatgcctcgaattcca	D90156
64371	tcataatatgcctcgaattccaccc	D90156
64372	gttctagtctcttcctgaagccagt	D90156
64373	tcagccgggcacagtagtcgaagtg	Y00964
64374	ttctgctccttggtacttagacctg	Y00964
64375	aactgtcactgacctagaaaatgcc	Y00964
64376	cactgacctagaaaatgcctacaaa	Y00964
64377	ctacaaacgactggccgtgcaccgc	Y00964
64378	acgactggccgtgcaccgctgcaga	Y00964
64379	gcaccgctgcagaatggtcagccgt	Y00964
64380	tggaatagctgcacaacctctctat	Y00964
64381	agctgcacaacctctctatactgga	Y00964
64382	tctctatactggatactgtaactat	Y00964
64383	gtgacagacgtctacagcattccag	Y00964
64384	gacgtctacagcattccagctatga	Y00964
64385	tccttggtacttagacctgatcagc	Y00964
64386	gtacttagacctgatcagctatggg	Y00964
64387	agacctgatcagctatgggcaagac	Y00964
64388	gccccttaattttgaaggctctgag	Y00964
64389	taattttgaaggctctgagaagcag	Y00964
64390	tccaagattatggcctcgagcaagc	Y00964
64391	attatggcctcgagcaagcgctgtt	Y00964
64392	agcaagcgctgttggtgagagactc	Y00964
64393	agcagatcgtgcaccaggctggtgc	X76858
64394	ctgggcaccagatcatcgtgcagaa	X76858
64395	cactggcttcagcgatcagtgaggg	X76858
64396	gtactgtgctcacagcccgggcagg	X76858
64397	acagtactgaacaggccactgtgac	X76858
64398	aggccactgtgacaatggtgtcatc	X76858
64399	agatccttgagcacggaggagagct	X76858
64400	tggtcattgcttcaccagagggcca	X76858
64401	ttgcttcaccagagggccagcttga	X76858
64402	ttgagggcctctgctgtggaagatc	X76858
64403	gcccgcacttgcctggtcagaagac	X76858
64404	cttcaggcagccaaaggagagagag	X76858
64405	accagatcatcgtgcagaatgtcac	X76858
64406	agacagcactgggttcggaggcagc	X76858
64407	cactgggttcggaggcagctgctgc	X76858
64408	aggcagctgctgcagacacgatcac	X76858
64409	ctgctgcagacacgatcaccattgc	X76858
64410	cgatcaccattgccactcctgagag	X76858
64411	gtcttactgagcaggtggccatgac	X76858
64412	ccatgacactggcttcagcgatcag	X76858
64413	gaaatggcagcgggctctaaattat	AA061266
64414	tgtccacctggaagagacaattgag	AA061266
64415	cttgacttccaaaggagagaacagt	AA061266
64416	gtactttgacgccatggaagactct	AA061266
64417	ctttgacgccatggaagactctaca	AA061266
64418	ggaagactctacatctttcatcacc	AA061266
64419	ctctacatctttcatcaccgtagtc	AA061266
64420	tacatctttcatcaccgtagtcact	AA061266
64421	atctttcatcaccgtagtcactgag	AA061266
64422	catcaccgtagtcactgaggccaag	AA061266
64423	caccgtagtcactgaggccaaggaa	AA061266
64424	cgtagtcactgaggccaaggaagac	AA061266
64425	caagcagcacaacagtcttgaacgg	AA061266
64426	gcagcacaacagtcttgaacgggcc	AA061266
64427	cagtcttgaacgggccttctgcaac	AA061266
64428	tcttgaacgggccttctgcaacacc	AA061266
64429	cgggccagccagctccagcaagagc	AA061266
64430	gccagccagctccagcaagagcttc	AA061266
64431	agccagctccagcaagagcttcagc	AA061266
64432	aagcttcttgacttccaaaggagag	AA061266

SEQ ID NO	sequence	DBAxnID
106969	tagagctcgatggcaagaggattaa	AA117665
106970	caatcacgacagcctactacagggg	AA117665
106971	tcacgacagcctactacaggggtgc	AA117665
106972	cgacagcctactacaggggtgccat	AA117665
106973	cctactacaggggtgccatgggtat	AA117665
106974	actacaggggtgccatgggtatcat	AA117665
106975	tctacgacattaccaatgagaagtc	AA117665
106976	acgacattaccaatgagaagtcctt	AA117665
106977	attacctgttcaagctgctgctgat	AA117665
106978	agtcctttgacaacatccggaattg	AA117665
106979	tgttcaagctgctgctgatcgggga	AA117665
106980	agacctgtgtcctgttccgcttctc	AA117665
106981	cctgtgtcctgttccgcttctccga	AA117665
106982	tgttccgcttctccgaggacgcctt	AA117665
106983	aggacgccttcaactccacattcat	AA117665
106984	tcaactccacattcatctctaccat	AA117665
106985	ccacattcatctctaccataggaat	AA117665
106986	tgccctgacagaagcagccaaggga	J03750
106987	ggtttatcctgactcacagttccat	J03750
106988	gcatgctcagttccttttgtctca	J03750
106989	tgtctcattaacctgagcccaggag	J03750
106990	ctgagcccaggagctggagttggcc	J03750
106991	tctccagacatcatgcctagaggcc	J03750
106992	gacatcatgcctagaggcctatctt	J03750
106993	gaactaataaccatcatagtaagtt	J03750
106994	tttctcccaggaagaaggcttgaca	J03750
106995	ataattagatctgctgccaggtttt	J03750
106996	agatctgctgccaggttttgccctt	J03750
106997	ttaatatgctccatagtaaggcttc	J03750
106998	ctcacagttccatgttccagtccgt	J03750
106999	ctttggccaatttccacaatcactg	J03750
107000	tgttccagtccgttgtcgcattgtc	J03750
107001	agtccgttgtcgcattgtcacagtg	J03750
107002	cattgtcacagtggcaggaactcca	J03750
107003	ggcaggaactccagacatctgccac	J03750
107004	aactccagacatctgccacatggct	J03750
107005	ctgccacatggctccatagccagga	J03750
107006	tccatagccaggaagctgagagctg	J03750
107007	cagccaatctcaagtccatcccttt	W91350
107008	atctcaagtccatcccttaagcca	W91350
107009	tcaaccggcagaggagccacacaga	W91350
107010	ggagccacacagatctcttggccat	W91350
107011	cagatctcttggccatctgcagctt	W91350
107012	tcttggccatctgcagcttccaggg	W91350
107013	ccatctgcagcttccagggagttcc	W91350
107014	gcttccaactactagatccggtctt	W91350
107015	tagatccggtcttccgtctccgatc	W91350
107016	tccgtctccgatctggaaaacgcca	W91350
107017	tcctctgcaccctggtcgatggagt	W91350
107018	tctgcaccctggtcgatggagtgct	W91350
107019	agtccatcccctttaagccaatcaca	W91350
107020	gccaatcacaaaccaccttgatgcc	W91350
107021	aatcacaaaccaccttgatgccagc	W91350
107022	aaaccaccttgatgccagccctgct	W91350
107023	ccttgatgccagccctgctgagtgg	W91350
107024	gtggtttgctaccactcaaccggca	W91350
107025	gtttgctaccactcaaccggcagag	W91350
107026	tgctaccactcaaccggcagaggag	W91350
107027	ccaagcctgcctggacagctgttct	L31397
107028	ctgcctggacagctgttctgtgact	L31397
107029	ggctgacacagcctcgcctgtagtg	L31397
107030	caccatgctgtccttgtggagtctt	L31397
107031	tgtggtccaaccaagggaacgctgt	L31397
107032	ccaaccaagggaacgctgtcatcct	L31397
107033	ccctgcagcaaggggatgctgcagc	L31397
107034	cagcagctgtgcagttctctggtag	L31397
107035	ctgtgcagttctctggtagccacca	L31397
107036	agttctctggtagccaccagtcttg	L31397

TABLE 1

SEQ ID NO	sequence	DBAxnID
21829	aagagtgtagccccttatgactgga	W65530
21830	gagtgtagccccttatgactggagc	W65530
21831	gtagccccttatgactggagctgta	W65530
21832	ccccttatgactggagctgtagaga	W65530
21833	ccttatgactggagctgtagagaga	W65530
21834	atgactggagctgtagagagagttt	W65530
21835	agttttgcgcatccctgcgaaattc	W65530
21836	ttttgcgcatccctgcgaaattcta	W65530
21837	gcgcatccctgcgaaattctataac	W65530
21838	agactacatggaatctctctcaagc	W65530
21839	gcatccctgcgaaattctataacta	W65530
21840	tacatggaatctctctcaagcgaac	W65530
21841	catggaatctctctcaagcgaactt	W65530
21842	tggaatctctctcaagcgaacttgt	W65530
21843	gaatctctctcaagcgaacttgtgg	W65530
21844	ctctctcaagcgaacttgtggagca	W65530
21845	ctctcaagcgaacttgtggagcaga	W65530
21846	ctcaagcgaacttgtggagcagaga	W65530
21847	ctgttgtcggacttcactgagaaca	D50589
21848	agctcagcaaacatcctgttctacc	D50589
21849	ttgatttaagctttcctgttgagtg	D50589
21850	taagctttcctgttgagtgacaaag	D50589
21851	aattttgatgtcactgctgttataa	D50589
21852	gatgtcactgctgttataaatgcag	D50589
21853	gaaattcattctctaggaagtcaac	D50589
21854	cattctctaggaagtcaactcatgc	D50589
21855	acaagttgctgtctcgtgattgctt	D50589
21856	tgctgtctcgtgattgcttaatgga	D50589
21857	actctttatttggaccatgaagttg	D50589
21858	tatttggaccatgaagttgaatgcc	D50589
21859	gcaaacatcctgttctacccagtcc	D50589
21860	ccagtccagtgccagtaaacagact	D50589
21861	cagtaaacagactgacctttgtgga	D50589
21862	tgacctttgtggacagttgtgagga	D50589
21863	ttcacgagggaacctctgaagaagt	D50589
21864	ttatgaggtttgggctgcagatgtg	D50589
21865	gatgacagagccctttgtggaaagt	D50589
21866	agagccctttgtggaaagtgtcaga	D50589
21867	caagccatctttgataacaccacta	U25995
21868	gataacaccactagtctgactgatg	U25995
21869	cccactagccttcagaactctatct	U25995
21870	agccttcagaactctatctcagcat	U25995
21871	cagaactctatctcagcatgagctc	U25995
21872	tctatctcagcatgagctctgcatt	U25995
21873	tgagctctgcatttgagcacacagg	U25995
21874	ctgcatttgagcacacagggtcatg	U25995
21875	ttgagcacacagggtcatgcagttt	U25995
21876	atctgaagcccacagtgattcttca	U25995
21877	agcccacagtgattcttcagaacat	U25995
21878	cataaagaccgctgaatgaatggtc	U25995
21879	accactagtctgactgatgaacacc	U25995
21880	atggtcggtccatgaccagtaggag	U25995
21881	ctgggcttcactgagtctcagatcg	U25995
21882	taccaaatgcttcagaagtggctga	U25995
21883	ttggcccaggcacttcaccaatgtt	U25995
21884	cttcaccaatgttgcaggatagacc	U25995
21885	aaccacttgattcgtgccagccaga	U25995
21886	ttgattcgtgccagccagagctaag	U25995
21887	cgtgccagccagagctaagcctggg	U25995
21888	ggagcccagtggcaatattgccaac	W65572
21889	tgccaacaagactacctactttgag	W65572
21890	cagcacctatcgctgtagctatcag	W65572
21891	cacctatcgctgtagctatcagccc	W65572
21892	ctatcgctgtagctatcagcccacc	W65572
21893	tagctatcagcccaccatggagggt	W65572
21894	tgtccatacagtacatgtcaccttc	W65572
21895	ccatacagtacatgtcaccttcgcc	W65572
21896	tagcccctacactgtcactgttggc	W65572

SEQ ID NO:	sequence	DBAxnID
64433	aattctctgtccatgtggagtctgt	X74616
64434	tcctgaatcgtgtccctcagccaga	X74616
64435	cacccagtggcagatttggcaccat	X74616
64436	ccaaggcagctgccacctacgtgca	X74616
64437	cagctgccacctacgtgcaggagtt	X74616
64438	aggagtttctgccacacagcctctg	X74616
64439	ttctgccacacagcctctgtgccat	X74616
64440	cacacagcctctgtgccatgcagtg	X74616
64441	tgtgggttctgcctgttagaacact	X74616
64442	gaacacttcagtagctagcccgtct	X74616
64443	ttcagtagctagcccgtctggttga	X74616
64444	gctgacgatctctactattttgaag	X74616
64445	gccaacttctggttgaagccatcct	X74616
64446	ttgttctcaccatgctggcagatat	X74616
64447	tcaccatgctggcagatattgaaat	X74616
64448	ggagcatcattgctgtggagaaaat	X74616
64449	atgataccatgttggcaaaggatcc	X74616
64450	ctgcatctggcatctgtactctcct	X74616
64451	tctgtactctcctgtatgacagtgc	X74616
64452	acagtgcacccagtggcagatttgg	X74616
64453	actacccagtgtctgatccctagac	X75014
64454	gcgccactctggtctggagtactaa	X75014
64455	tcctagacttttcagctagctgggc	X75014
64456	acttttcagctagctgggccactca	X75014
64457	cagctagctgggccactcattcctt	X75014
64458	ctagctgggccactcattccttgaa	X75014
64459	ccactcattccttgaaatcaagcaa	X75014
64460	ctcattccttgaaatcaagcaacct	X75014
64461	tgaaatcaagcaacctgaagagtcc	X75014
64462	aatcaagcaacctgaagagtcccac	X75014
64463	tccctagccagtatggcgcagaggt	X75014
64464	ctagccagtatggcgcagaggttag	X75014
64465	ccactctggtctggagtactaatca	X75014
64466	cttgctaggctttcttaggaacagg	X75014
64467	tcaaattacacctgtccctcactca	X75014
64468	tcactcagtgcccaatcataaaggg	X75014
64469	ctcagtgcccaatcataaagggtcc	X75014
64470	agaagccgagccaacagctcctaga	X75014
64471	gccaacagctcctagacttttcagc	X75014
64472	aacagctcctagacttttcagctag	X75014
64473	ccatgaagacttccaggtcacagag	AA061310
64474	tgaagacttccaggtcacagaggaa	AA061310
64475	agagtccgtgctgcagatgatgcag	AA061310
64476	catctacttgagcgacatgggtgcg	AA061310
64477	ggagtcccatgagctgcaagatgtt	AA061310
64478	tgagctgcaagatgttctggaagag	AA061310
64479	ggaagagaccaacatccttaagcgg	AA061310
64480	agagaccaacatccttaagcggctc	AA061310
64481	gaccaacatccttaagcggctctat	AA061310
64482	caacatccttaagcggctctataag	AA061310
64483	catccttaagcggctctataaggcc	AA061310
64484	ccttaagcggctctataaggccctg	AA061310
64485	agacttccaggtcacagaggaagtg	AA061310
64486	agtgaaggccctgactgcagagatt	AA061310
64487	gaaggccctgactgcagagattgtg	AA061310
64488	tcgggatatcatcgccttgaaccct	AA061310
64489	ggatatcatcgccttgaaccctctg	AA061310
64490	catcgccttgaaccctctgtacaga	AA061310
64491	cgccttgaaccctctgtacagagag	AA061310
64492	cttgaaccctctgtacagagagtcc	AA061310
64493	ttatagtatctcctatggatcaatt	D31898
64494	tatctcctatggatcaattacagag	D31898
64495	agcaggtgcctttggggaatgctcc	D31898
64496	atgctccaacctgtttcatccccaa	D31898
64497	tttccgaggacactgtcatgcacga	D31898
64498	aggacactgtcatgcacgacctcac	D31898
64499	ctgtcatgcacgacctcacatttct	D31898
64500	tgcacgacctcacatttctaaaaga	D31898

SEQ ID NO	sequence	DBAxnID
107037	agtcttgctgtctcttggctgagaa	L31397
107038	gctgtctcttggctgagaataaaac	L31397
107039	aagcgtcctattcatcatctgtgac	L31397
107040	cctattcatcatctgtgacttagtc	L31397
107041	catcatctgtgacttagtctgttgt	L31397
107042	ctgtgacttagtctgttgtagtggt	L31397
107043	tgagctgacacatccagatgtgatg	L31397
107044	ttgtgcccctctgtggtattgctcc	L31397
107045	ttgctcctgcgacattctataaata	L31397
107046	atatatggctgacacagcctcgcct	L31397
107047	tatttcttcatgaagacctcacggt	M64429
107048	ttcatgaagacctcacggtaaaaat	M64429
107049	gatacctatctccagatctcagtaa	M64429
107050	actgtccaaaagccatgaagagatt	M64429
107051	ttgagctgctggcccgctcattgcc	M64429
107052	cccgctcattgccaaaaattcaccg	M64429
107053	ttcaccgcagtgcatcagaaccttc	M64429
107054	catcagaaccttccttgaatcgggc	M64429
107055	gtctgtatgcttgtgcttctccgaa	M64429
107056	atgcttgtgcttctccgaaaacacc	M64429
107057	gtgcttctccgaaaacacccatcca	M64429
107058	acaccctgagtgagacattaaagta	M64429
107059	actttggtctagccacagtgaaatc	M64429
107060	gtctagccacagtgaaatctcggtg	M64429
107061	ggtcccatcagtttgaacagttgtc	M64429
107062	ttgttctgtacgaactgatgaccgg	M64429
107063	aactgatgaccggccagctaccttа	M64429
107064	taccttattcaaacatcaacaacag	M64429
107065	attcaaacatcaacaacagggatca	M64429
107066	acatcaacaacagggatcagataat	M64429
107067	gtattcaggagtctccagtgccgaa	M97013
107068	ctccagtgccgaatggccactcact	M97013
107069	acatgaaagccaacttgacgagccc	M97013
107070	acatcgggagcagcgttccaggccc	M97013
107071	cacagtcctaccctattgtcacagg	M97013
107072	cctaccctattgtcacaggccgaga	M97013
107073	ctattgtcacaggccgagacttggc	M97013
107074	tcacaggccgagacttggcgagcac	M97013
107075	accctcagtattcttcctacaatga	M97013
107076	agtattcttcctacaatgattcttg	M97013
107077	cttcctacaatgattcttggaggtt	M97013
107078	ttggctccccatactattacagccc	M97013
107079	gagacctgttcacacagcagcagct	M97013
107080	tgttcacacagcagcagctggaggt	M97013
107081	tgctggaccgcgtgtttgagagaca	M97013
107082	actctgacatcttcaccaccacgga	M97013
107083	ccacggaacccatcaagccagaaca	M97013
107084	tcaagccagaacagaccacagagta	M97013
107085	ccatggcttcactggctggaggcct	M97013
107086	cttcactggctggaggcctggatga	M97013
107087	gaatttgcactattacacttgaaag	L16846
107088	ctattacacttgaaagttctcagta	L16846
107089	gttagcaccagccagctctctgtac	L16846
107090	agcaccagccagctctctgtacatt	L16846
107091	cagctctctgtacatttgctagctt	L16846
107092	ctctctgtacatttgctagcttgta	L16846
107093	tctgtacatttgctagcttgtagtt	L16846
107094	catttgctagcttgtagttttctaa	L16846
107095	tttctaagactgagtggagtaaact	L16846
107096	tcccacaaaccaccatctattttgt	L16846
107097	cacaaaccaccatctattttgtgaa	L16846
107098	ccatctattttgtgaactttgttag	L16846
107099	gttctcagtaacttttttggcagct	L16846
107100	ttttttggcagctcaataggaaagc	L16846
107101	agacaaacttagtacgcatgacctg	L16846
107102	ttgtgtttttggcgttgagagtagg	L16846
107103	ggagcgaccaggctctgcatggcag	L16846
107104	cttcaaaaagacactgtctcaactg	L16846

TABLE 1

SEQ ID NO	sequence	DBAxnID
21897	cccctacactgtcactgttggccaa	W65572
21898	cactgttggccaagcctgtaaccca	W65572
21899	tgttggccaagcctgtaacccagct	W65572
21900	caagactacctactttgagatcttc	W65572
21901	gactacctactttgagatcttcact	W65572
21902	tacctactttgagatcttcactgca	W65572
21903	ctttgagatcttcactgcaggagct	W65572
21904	tgagatcttcactgcaggagctggc	W65572
21905	agttgtcatccaggaccctacagga	W65572
21906	catccaggaccctacaggacagaaa	W65572
21907	ggaccctacaggacagaaaggcaca	W65572
21908	cttccttctgctttacagtcgtcca	L34214
21909	tctgctttacagtcgtccaggcagc	L34214
21910	tatattccaccagattgtacccgaa	L34214
21911	acccgaaggcatgttctgggcagat	L34214
21912	aggcatgttctgggcagatgacata	L34214
21913	ggccaccaaacaagaggccacccat	L34214
21914	tgggccattccccactgtgggcctc	L34214
21915	cactgtgggcctcaaccttgttgct	L34214
21916	gggcctcaaccttgttgctgactga	L34214
21917	tgttgctgactgagatctcgttgca	L34214
21918	agatctcgttgcataagatccctttt	L34214
21919	atgccctccaatccaaggggcaatt	L34214
21920	ttacagtcgtccaggcagctgcagc	L34214
21921	cgacataaacgcccacgatggtcag	L34214
21922	atcggaacagctctggacattccaa	L34214
21923	ctggacattccaaggacttattgct	L34214
21924	attccaaggacttattgcttcagtc	L34214
21925	aggacttattgcttcagtcttccag	L34214
21926	gtacttacaacttatattccaccag	L34214
21927	acaacttatattccaccagattgta	L34214
21928	ttttctctatgaagagagtgaggtg	U06431
21929	aacctgagagacatctctggaggaa	U06431
21930	tgctgagagccaggccacaatcttt	U06431
21931	gagccaggccacaatctttctataa	U06431
21932	cagattctgtcttttcattaagata	U06431
21933	tcattaccaggcatacctcctgcct	U06431
21934	cctgcctctgtgcctcataggcata	U06431
21935	cctcataggcatacacaagccataa	U06431
21936	aggcatacacaagccataagggcat	U06431
21937	acacaagccataagggcatcatgat	U06431
21938	atagactagcgtcaaaccagatgtg	U06431
21939	agatgtggcaactcctggctcttgg	U06431
21940	cttctttataaccatatgataggat	U06431
21941	tcttggcctacgatctgtcttcaag	U06431
21942	ctcttgattcaaacaacacatctga	U06431
21943	attcaaacaacacatctgagaactc	U06431
21944	acaacacatctgagaactcactagg	U06431
21945	agaactcactaggcttcagtgccta	U06431
21946	cactaggcttcagtgcctactaaat	U06431
21947	gcttcagtgcctactaaatgctgag	U06431
21948	gtgcctactaaatgctgagagccag	U06431
21949	ccgcatgggcactctgctgagccgg	W65616
21950	tctgctgagccggctgagcgtgcag	W65616
21951	ccagcactatggatgccgggtccaa	W65616
21952	ctatggatgccgggtccaactgggc	W65616
21953	atgccgggtccaactgggcggatca	W65616
21954	catcatgtctggctacgagttcatc	W65616
21955	catgtctggctacgagttcatccac	W65616
21956	tggctacgagttcatccacaagttg	W65616
21957	cgagttcatccacaagttgactgga	W65616
21958	catccacaagttgactggagaggat	W65616
21959	ccacaagttgactggagaggatgtg	W65616
21960	tggaatcactgtacctctaattaca	W65616
21961	gcgtctcaagagccccgaggcactg	W65616
21962	cactgtacctctaattacaagtaca	W65616
21963	tctcaagagccccgaggcactgagc	W65616
21964	ccaggtgctccaggcctatgacttc	W65616

SEQ ID NO:	sequence	DBAxnID
64501	acctccttcctcaagagacaaatga	D31898
64502	tcacactcagcaaacaggagatgtt	D31898
64503	agatgttctgctcagatatgaattt	D31898
64504	tttcgtactcccaataaatgactct	D31898
64505	gcacaatgactgtcgttggatatat	D31898
64506	tacaagtggctcctgttccacaata	D31898
64507	ctgttccacaatactaactactata	D31898
64508	cacaatactaactactatatttcta	D31898
64509	tactatatttctacattgtgacttg	D31898
64510	atatggtgtctacctggtatctctc	D31898
64511	cctggtatctctctcccaataagaa	D31898
64512	atctctctcccaataagaagcaggt	D31898
64513	agaagcaccctgtatagttcttctg	AA106468
64514	ctgtatagttcttctggcttttgca	AA106468
64515	tctcagtgctttggccctgctgagt	AA106468
64516	cagtgctttggccctgctgagttta	AA106468
64517	tttggccctgctgagtttagcaggt	AA106468
64518	taacacttttcagctaaggtgact	AA106468
64519	ggctagttgccatgatgcagtggcg	AA106468
64520	tacttatgccaatgaatgtgttctg	AA106468
64521	tgaatgtgttctgtgctttgaaaac	AA106468
64522	atgtgttctgtgctttgaaaacagg	AA106468
64523	acgcatagagcctgtcctcattcga	AA106468
64524	tgtcctcattcgaaaaggtgggcct	AA106468
64525	tatagttcttctggcttttgcaccc	AA106468
64526	agttcttctggcttttgcacccaga	AA106468
64527	ggcttttgcacccagatcttcgaca	AA106468
64528	ttttgcacccagatcttcgacaatg	AA106468
64529	tgcacccagatcttcgacaatgaag	AA106468
64530	cagatcttcgacaatgaaggtggct	AA106468
64531	atcttcgacaatgaaggtggctgtc	AA106468
64532	tcttctcagtgctttggccctgctg	AA106468
64533	acttagctctatatcctggaagtga	AA061283
64534	tagctctatatcctggaagtgattc	AA061283
64535	tctatcgctcaccgattccatctca	AA061283
64536	atcgctcaccgattccatctcatga	AA061283
64537	ttccatctcatgagagagaaatatc	AA061283
64538	tactttgagtttgccacatctgagt	AA061283
64539	gagtttgccacatctgagtccatct	AA061283
64540	gagtccatcttctcaacatgcaaaa	AA061283
64541	tccatcttctcaacatgcaaaaagc	AA061283
64542	gagtctgtaaccgttgagatatgcg	AA061283
64543	tctgtaaccgttgagatatgcggga	AA061283
64544	atatgcgggaagctgctggatctga	AA061283
64545	gttccctctcaaatcatcaataact	AA061283
64546	ccctctcaaatcatcaataactact	AA061283
64547	tctcaaatcatcaataactacttct	AA061283
64548	atcatcaataactacttctccattg	AA061283
64549	atcaataactacttctccattggcg	AA061283
64550	ttctccattggcgtggatgcttcta	AA061283
64551	tccattggcgtggatgcttctatcg	AA061283
64552	gatgcttctatcgctcaccgattcc	AA061283
64553	catttgaacttttgtgcagtgccta	Z31360
64554	ttgaacttttgtgcagtgcctagag	Z31360
64555	gtccaacacttcagagcacaagagc	Z31360
64556	cacttcagagcacaagagcttggct	Z31360
64557	agagcacaagagcttggctgctatt	Z31360
64558	gagcttggctgctattcaagtagtt	Z31360
64559	cttggctgctattcaagtagttaca	Z31360
64560	ttgtttcattcagtacaacagaaaa	Z31360
64561	tttcattcagtacaacagaaaagca	Z31360
64562	tatattagcagccattaaaagttac	Z31360
64563	aatctgatccagtttactctgctca	Z31360
64564	tttactctgctcaagtaaaggaacg	Z31360
64565	ttttgtgcagtgcctagagatggta	Z31360
64566	tgtgcagtgcctagagatggtatcc	Z31360
64567	tatatctggacttctttaagttcaa	Z31360
64568	tggacttctttaagttcaagaagat	Z31360

SEQ ID NO	sequence	DBAxnID
107105	gacactgtctcaactgtggttgtta	L16846
107106	actgtctcaactgtggttgttagca	L16846
107107	ctccgccgtgcgttgtggaccaaca	W10234
107108	tccgccgtgcgttgtggaccaacat	W10234
107109	tccgaaagctgtgctcagacaggaa	W10234
107110	gaaagctgtgctcagacaggaatgt	W10234
107111	aagctgtgctcagacaggaatgtgg	W10234
107112	aatgtggtgcctttgccaaatgctc	W10234
107113	atgtggtgcctttgccaaatgctca	W10234
107114	tggtgcctttgccaaatgctcactt	W10234
107115	gtgcctttgccaaatgctcacttta	W10234
107116	tgcctttgccaaatgctcactttaa	W10234
107117	ctttgccaaatgctcactttaaaat	W10234
107118	ttgccaaatgctcactttaaaatcg	W10234
107119	ttgtggaccaacatgggcctgaaaa	W10234
107120	tgccaaatgctcactttaaaatcgt	W10234
107121	tggaccaacatgggcctgaaaaagg	W10234
107122	ccaacatgggcctgaaaaaggagct	W10234
107123	gccttgaacttcttaagaaggctga	W10234
107124	gcagtcaacggattccgaaagctgt	W10234
107125	cagtcaacggattccgaaagctgtg	W10234
107126	aacggattccgaaagctgtgctcag	W10234
107127	gattccgaaagctgtgctcagacag	W10234
107128	acggcggcatcacggacatgctcgt	AA059718
107129	gcggcatcacggacatgctcgtgga	AA059718
107130	tgatagccaagtacccacacaaaat	AA059718
107131	tagccaagtacccacacaaaatcaa	AA059718
107132	agtacccacacaaaatcaagagcgg	AA059718
107133	acccacacaaaatcaagagcggacg	AA059718
107134	atacaagttcatccatcaatttcct	AA059718
107135	caagttcatccatcaatttcctgac	AA059718
107136	gttcatccatcaatttcctgactcg	AA059718
107137	ccatcaatttcctgactcgagttac	AA059718
107138	tcaatttcctgactcgagttactgg	AA059718
107139	atttcctgactcgagttactggcat	AA059718
107140	gcatcacggacatgctcgtggaact	AA059718
107141	tgactcgagttactggcattggacc	AA059718
107142	cggacatgctcgtggaactcgcaaa	AA059718
107143	acatgctcgtggaactcgcaaactt	AA059718
107144	tggaactcgcaaactttgagaagaa	AA059718
107145	acgtgagccaggcgatccacaagta	AA059718
107146	tgagccaggcgatccacaagtacaa	AA059718
107147	gccaggcgatccacaagtacaatgc	AA059718
107148	cgatccacaagtacaatgcgtacag	AA059718
107149	gcgagcctcgttgggtttatgtctt	AA144693
107150	cgaaaacgagctgttgcgcaccatt	AA144693
107151	tgcgcaccatttggtacctgtattg	AA144693
107152	cgcaccatttggtacctgtattggg	AA144693
107153	gcaccatttggtacctgtattgggt	AA144693
107154	caccatttggtacctgtattgggtg	AA144693
107155	ttggtacctgtattgggtgaaacat	AA144693
107156	agaagcttacagcctcagtggcgaa	AA144693
107157	gaagcttacagcctcagtggcgaaa	AA144693
107158	agcttacagcctcagtggcgaaaat	AA144693
107159	gcttacagcctcagtggcgaaaatt	AA144693
107160	cttacagcctcagtggcgaaaattt	AA144693
107161	aacgagctgttgcgcaccatttggt	AA144693
107162	aatttttcatgtcagagaccgaga	AA144693
107163	acgagctgttgcgcaccatttggta	AA144693
107164	cgagctgttgcgcaccatttggtac	AA144693
107165	agctgttgcgcaccatttggtacct	AA144693
107166	gctgttgcgcaccatttggtacctg	AA144693
107167	ctgttgcgcaccatttggtacctgt	AA144693
107168	gttgcgcaccatttggtacctgtat	AA144693
107169	ttgcgcaccatttggtacctgtatt	AA144693
107170	ttcgaacatcgatcttccaaactac	M99492
107171	tttggcttacctctgggaagaagag	M99492
107172	tacctaacattgaacacagagaagt	M99492

TABLE 1

SEQ ID NO	sequence	DBAxnID
21965	ggtgctccaggcctatgacttctac	W65616
21966	gctccaggcctatgacttctactac	W65616
21967	ctatgacttctactacctttccag	W65616
21968	tgacttctactacctttccagcac	W65616
21969	ctacctttccagcactatggatgc	W65616
21970	ttcagtcgcagttcccacctgcggt	L28167
21971	ttcatttgtagctccaatctctaca	L28167
21972	ctccaagtccacttgagagtccaca	L28167
21973	gtccacttgagagtccacacggggg	L28167
21974	cagctacagtcccatcagagagtcc	L28167
21975	ctacagtcccatcagagagtccaca	L28167
21976	aatcttataattcatcacagaatcc	L28167
21977	attcatcacagaatccacagcagtg	L28167
21978	catcacagaatccacagcagtggta	L28167
21979	atccacagcagtggtaaaccttaca	L28167
21980	atcaaggagtccactcaggaaaaat	L28167
21981	gagtccactcaggaaaaatgttcta	L28167
21982	atttgtagctccaatctctacatcc	L28167
21983	tgtagctccaatctctacatccatc	L28167
21984	tccaatctctacatccatcagcgag	L28167
21985	aatctctacatccatcagcgagtcc	L28167
21986	aaatgcgtggactgcgggaaagaat	L28167
21987	tcgagtcttcaggcccatcagggca	L28167
21988	cttcaggcccatcagggcattcaca	L28167
21989	tatactctgaattcaaatctccaag	L28167
21990	ccccacgaggacatggccatagact	D13546
21991	atagactacgagaacttctatacct	D13546
21992	gttgcctggcctcacaaacaccaag	D13546
21993	cacaaacaccaagagcccaggtatg	D13546
21994	caccaagagcccaggtatggctctc	D13546
21995	aggatctggccacagggacaggact	D13546
21996	acccccatgcagcgtggctctgatc	D13546
21997	atgcagcgtggctctgatctgaatt	D13546
21998	ctgaattacgccctgcttctctcct	D13546
21999	ctgcttctctcctgcttcatgaggt	D13546
22000	tacagacgtgaaccatctatggaca	D13546
22001	cgtgaaccatctatggacacaaagg	D13546
22002	tacgagaacttctatacctatgccc	D13546
22003	aacttctatacctatgcccagctgc	D13546
22004	tatacctatgcccagctgccggtca	D13546
22005	acccccgatgtcttcatagtgccgt	D13546
22006	gatgtcttcatagtgccgtccgagc	D13546
22007	gtgccgtccgagctgagatactttg	D13546
22008	tgtgtgaatcctgggcggctcacca	D13546
22009	atctgagtcctcagcctggttgcct	D13546
22010	cctgtccgctcatgctactgcttta	U19880
22011	cgctcatgctactgctttactgggc	U19880
22012	cttcccgcagaaggagaggcgccaa	U19880
22013	tgtgttggacgcctttcttcgtggt	U19880
22014	cgccttttcttcgtggtgcacatcac	U19880
22015	ctttcttcgtggtgcacatcacgcg	U19880
22016	tcgtggtgcacatcacgcgggcgct	U19880
22017	tggtcagtgccgtcacctggctagg	U19880
22018	ccatcttcaacgcggagtttcgaag	U19880
22019	tcaacgcggagtttcgaagtgtctt	U19880
22020	ttcgaagtgtcttccgcaagactct	U19880
22021	gtctccgctgctgaaagaaccgctg	U19880
22022	tgctactgctttactgggccacttt	U19880
22023	tactgctttactgggccactttccg	U19880
22024	tgctttactgggccactttccgcgg	U19880
22025	ctcagggtcccttcttcccagactg	U19880
22026	actccagcaggccggagtcagagct	U19880
22027	cggagtcagagctctctcagagacc	U19880
22028	cagagctctctcagagaccctgcag	U19880
22029	cgtcttcccgcagaaggagaggcgc	U19880
22030	tgaagcatctagttgtgaggagttt	W65699
22031	agatctaattcaaatactgtgtgaa	W65699
22032	ggtcttggccaatagcacagaactt	W65699

SEQ ID NO	sequence	DBAxnID
64569	taaacgtgtgcttctgtccaacact	Z31360
64570	tgtgcttctgtccaacacttcagag	Z31360
64571	gcttctgtccaacacttcagagcac	Z31360
64572	tctgtccaacacttcagagcacaag	Z31360
64573	gagcacactcaagagccacaagcgc	Z47205
64574	actcaagagccacaagcgcatccac	Z47205
64575	aacacacaacggtgcctcgccatac	Z47205
64576	gccataccagtgtaccatctgcacg	Z47205
64577	ccagtgtaccatctgcacggaatac	Z47205
64578	taccatctgcacggaatactgcccc	Z47205
64579	ctcctccatgcagaaacacatgaag	Z47205
64580	catgaagggccacaagccggaggag	Z47205
64581	gggccacaagccggaggagatccca	Z47205
64582	gaagacgtacctctacctgtgttat	Z47205
64583	tgatagttacttggccttggattat	Z47205
64584	gatctggctatcaaaccactgcccc	Z47205
64585	gagccacaagcgcatccacacaggg	Z47205
64586	ctccctggcgacagcaacggaattc	Z47205
64587	gttcagcctcaagcaccagttggag	Z47205
64588	cctcaagcaccagttggagacgcac	Z47205
64589	gacgcactacagggttcacacaggt	Z47205
64590	tgagaagccctttgagtgcaaactc	Z47205
64591	tgagtgcaaactctgccaccagcgc	Z47205
64592	agactactcggccatgatcaagcac	Z47205
64593	ctcggccatgatcaagcacctgaga	Z47205
64594	aaggacctggtgtcagcttgtggca	AA061461
64595	ggacctggtgtcagcttgtggcagt	AA061461
64596	ggtagtgactctgagcccgacagtc	AA061461
64597	tagtgactctgagcccgacagtcca	AA061461
64598	gactctgagcccgacagtccagcct	AA061461
64599	ctctgagcccgacagtccagcctttt	AA061461
64600	ctgagcccgacagtccagcctttga	AA061461
64601	gagcccgacagtccagcctttgagg	AA061461
64602	ccgacagtccagcctttgaggatag	AA061461
64603	cagtccagcctttgaggatagccag	AA061461
64604	gtccagcctttgaggatagccaggt	AA061461
64605	agcctttgaggatagccaggtcaaa	AA061461
64606	agagtagccccttgtcttttggcag	AA061461
64607	agtagccccttgtcttttggcagca	AA061461
64608	tagcccctgtcttttggcagcaga	AA061461
64609	cttgtcttttggcagcagagctagc	AA061461
64610	tgtcttttggcagcagagctagcag	AA061461
64611	tcttttggcagcagagctagcagca	AA061461
64612	ttttggcagcagagctagcagcagt	AA061461
64613	ctagcagcagtggtggtagtgactc	AA061461
64614	gccactgggcctacggacaagggcg	Z46720
64615	cataaaagcctgctggctcggggcg	Z46720
64616	agagctgggctttggacagaaaaga	Z46720
64617	agacagagcacaggacctgtccctg	Z46720
64618	cagagcacaggacctgtccctgtga	Z46720
64619	acaggacctgtccctgtgagcgcct	Z46720
64620	agtgtaccagggcagcccctgagtc	Z46720
64621	ctgagtccacatgcacacctcagca	Z46720
64622	catgcacacctcagcagcctatatt	Z46720
64623	ggtttagcctcaagggctggaagct	Z46720
64624	ttagcctcaagggctggaagctggg	Z46720
64625	gcctcaagggctggaagctgggcct	Z46720
64626	cctgctcctctgtcctcaaacagtg	Z46720
64627	gctcctctgtcctcaaacagtgaac	Z46720
64628	cctctgtcctcaaacagtgaaccca	Z46720
64629	agtgaacccaggctgcagcctgaga	Z46720
64630	aggctgcagcctgagacctggactc	Z46720
64631	ctgcagcctgagacctggactctag	Z46720
64632	cagcctgagacctggactctagccc	Z46720
64633	ctcccagctagagggagagctgggc	Z46720
64634	gacactgagtgccatttctgcaagt	AA061213
64635	gagtgccatttctgcaagtctgtga	AA061213
64636	gctatgcacaggcaatgcaccaggc	AA061213

SEQ ID NO	sequence	DBAxnID
107173	aaacttcgtgctccccaatgtcagt	M99492
107174	cttcgtgctccccaatgtcagttct	M99492
107175	gctccccaatgtcagttctggagac	M99492
107176	ccccaatgtcagttctggagactat	M99492
107177	ggatttcatcgctggagcaattaca	M99492
107178	caatttaacgattacactagcaaga	M99492
107179	tttaacgattacactagcaagaaag	M99492
107180	catttacccttatagaatgttcat	M99492
107181	tgttcattttactgtagatgaaggc	M99492
107182	gaaatctttagtcgatccataatga	M99492
107183	atctttagtcgatccataatgaaaa	M99492
107184	tatggacatcccaatgggacccagg	M99492
107185	cccaatgggacccagggcaatagca	M99492
107186	aatgggacccagggcaatagcacaa	M99492
107187	aatagcacaatgtggcctgtcttca	M99492
107188	atgtggcctgtcttcacaagtactg	M99492
107189	tggcctgtcttcacaagtactgaac	M99492
107190	cttccaatggatccccatggagacc	W10282
107191	tccaatggatccccatggagaccca	W10282
107192	gacccgagagtggtcatgtgaaagg	W10282
107193	aatgaaggaccttcgccagttgcga	W10282
107194	tgaaggaccttcgccagttgcgaga	W10282
107195	aaggaccttcgccagttgcgagatg	W10282
107196	accttcgccagttgcgagatggcaa	W10282
107197	tcgccagttgcgagatggcaaagta	W10282
107198	gaagattctatcaacagttgtaggg	W10282
107199	attctatcaacagttgtaggggtga	W10282
107200	tctatcaacagttgtaggggtgacc	W10282
107201	tatcaacagttgtaggggtgaccat	W10282
107202	caatggatccccatggagacccata	W10282
107203	atggatccccatggagacccatatg	W10282
107204	atccccatggagacccatatggacc	W10282
107205	ccccatggagacccatatggaccat	W10282
107206	atatggaccatgtgcttaggttcac	W10282
107207	accatgtgcttaggttcacaggttt	W10282
107208	catgtgcttaggttcacaggttttg	W10282
107209	aggacccgagagtggtcatgtgaaa	W10282
107210	agtccactccatgtagccacaggac	M58004
107211	ctccatgtagccacaggactgtctc	M58004
107212	ctgcctgacttttatctgcggaacc	M58004
107213	gacttttatctgcggaacctgacct	M58004
107214	aagtaagaacctgcacaccaagtat	M58004
107215	gcacaccaagtatctgggattcctg	M58004
107216	caagtatctgggattcctggaatgc	M58004
107217	attcctggaatgcctctccatgcaa	M58004
107218	cctctccatgcaaatgaggcattcc	M58004
107219	gcattcccagtactttaaacttcat	M58004
107220	cttcctatactccaaggttcatgta	M58004
107221	tcatgtatagccctggtttacccca	M58004
107222	acaggactgtctctttcttcagatt	M58004
107223	ctgtctctttcttcagattcataga	M58004
107224	ctttcttcagattcatagaactacg	M58004
107225	gaaattatctcactcactcaccttg	M58004
107226	ctcactcaccttgagtacaggaggg	M58004
107227	tattctaaaccaaaagacatcatgg	M58004
107228	tattcctctgagcttggtgcaaaac	M58004
107229	ttttccagcagggcgtcttcttctc	M58004
107230	gcgctctctcccagaattgaacacttt	W15802
107231	aattgaacactttctgcctgggatg	W15802
107232	ctttgagtgccttttgaacgctgc	W15802
107233	ccttttgaacgctgctccacaggg	W15802
107234	ttttgaacgctgctccacagggcct	W15802
107235	ctgctccacagggcctgggttttct	W15802
107236	cacagggcctgggttttcttgagct	W15802
107237	ttgagctcttctgtccaaagatggc	W15802
107238	gtccaaagatggctgcgggctaagc	W15802
107239	tgctccatctcaggaggcagccttc	W15802
107240	tccatctcaggaggcagccttcctg	W15802

TABLE 1

SEQ ID NO	sequence	DBAxnID
22033	caatagcacagaacttcccagcaaa	W65699
22034	tagcacagaacttcccagcaaactc	W65699
22035	cacagaacttcccagcaaactccag	W65699
22036	agaacttcccagcaaactccagctt	W65699
22037	acttcccagcaaactccagcttatg	W65699
22038	tcccagcaaactccagcttatggaa	W65699
22039	ggaaaagcaccaatctgacttggaga	W65699
22040	aaagcaccaatctgacttgagaaag	W65699
22041	gcaccaatctgacttgagaaagctg	W65699
22042	tctaattcaaatactgtgtgaaagg	W65699
22043	ggctgatgctggtgctagtgtctgc	W65699
22044	tgctggtgctagtgtctgctccctg	W65699
22045	tgctagtgtctgctccctgcttcta	W65699
22046	taggcctgagtgtttgctgatggtc	W65699
22047	gcctgagtgtttgctgatggtcttg	W65699
22048	gtgtttgctgatggtcttggccaat	W65699
22049	tttgctgatggtcttggccaatagc	W65699
22050	cctgtttgtcaccagcctcgatgcc	U26176
22051	cagcctcgatgccactgtcaaccat	U26176
22052	ctgcaagcaagtccctttcaccaag	U26176
22053	gcaagtccctttcaccaagaccact	U26176
22054	acctcgcctgcaaacgggtctgcgc	U26176
22055	cctgcaaacgggtctgcgccactct	U26176
22056	aacgggtctgcgccactctctcaag	U26176
22057	gccagcaacttcaagaacaactcct	U26176
22058	cactaagccaggccctttcagcagc	U26176
22059	tgctgtccccaggagcctcaggact	U26176
22060	ctcctaggactggctccaaggacac	U26176
22061	gctccaaggacacctccatgggggt	U26176
22062	cgatgccactgtcaaccatgtgtcc	U26176
22063	catccattcctgggcctctggcaat	U26176
22064	caaccatgtgtccctcatcctgagc	U26176
22065	caatcccattctctatggcttcctc	U26176
22066	cattctctatggcttcctctctgac	U26176
22067	ctctttccagcgggttctgtgcctg	U26176
22068	gcgctgctgtctcctggaaacaact	U26176
22069	ctatgccactgctctcaaaagcaga	U26176
22070	ccagcaggagcccgtgcaagcagaa	U26176
22071	agtggaacatctctgtcggaagaga	AA139306
22072	tggaacatctctgtcggaagagaga	AA139306
22073	agatgcttttgagctgtttgatacc	AA139306
22074	ctgtttgataccgacaaagaccaag	AA139306
22075	cgacaaagaccaagccatagattat	AA139306
22076	gacaaagaccaagccatagattatc	AA139306
22077	ccaagccatagattatcatgaatta	AA139306
22078	atgagagccttgggctttgatgtga	AA139306
22079	gagagccttgggctttgatgtgaaa	AA139306
22080	agccttgggctttgatgtgaaaaag	AA139306
22081	gccttgggctttgatgtgaaaaagg	AA139306
22082	agaagccactggcaagatcacattt	AA139306
22083	ggaacatctctgtcggaagagagaa	AA139306
22084	gaagccactggcaagatcacatttg	AA139306
22085	acatctctgtcggaagagagaatga	AA139306
22086	atctctgtcggaagagagaatgagt	AA139306
22087	atgagtttagctctgagaggtgagc	AA139306
22088	agtttagctctgagaggtgagcttg	AA139306
22089	tttagctctgagaggtgagcttgta	AA139306
22090	agctctgagaggtgagcttgtagta	AA139306
22091	agagctctctgaagaacagaagcaa	AA139306
22092	ggacacagctactactacatctcca	U26188
22093	tactacatctccaaacctatctacc	U26188
22094	ctcttcccactggtctgggcagtat	U26188
22095	ccactggtctgggcagtattgctcc	U26188
22096	gcagtattgctcctaccactgctgc	U26188
22097	ctaccactgctgctgctgcaatctc	U26188
22098	ctgctgctgctgcaatctcagtgag	U26188
22099	agacgccaccatgaagcctcaaaag	U26188
22100	agtttaaccagcccaactgtgccat	U26188

SEQ ID NO:	sequence	DBAxnID
64637	cacaggcaatgcaccaggcctgcct	AA061213
64638	aggcaatgcaccaggcctgccttcg	AA061213
64639	cctgccttcgcttctggctagacag	AA061213
64640	gccttcgcttctggctagacaggca	AA061213
64641	ttcgcttctggctagacaggcaaaa	AA061213
64642	tggaacagcacatgccccagctgct	AA061213
64643	aacagcacatgccccagctgctggc	AA061213
64644	cccagctgctggccctggtgcctag	AA061213
64645	tgcctaggagccaggattgcccaat	AA061213
64646	tgccatttctgcaagtctgtgatca	AA061213
64647	ttctgcaagtctgtgatcaaccagg	AA061213
64648	tctgtgatcaaccaggcctggaaca	AA061213
64649	gtgatcaaccaggcctggaacacca	AA061213
64650	caggcctggaacaccagtgaacagg	AA061213
64651	gcctggaacaccagtgaacaggcta	AA061213
64652	aacaccagtgaacaggctatgcaca	AA061213
64653	caggctatgcacaggcaatgcacca	AA061213
64654	gcttcctcacaggttccacgagtca	X65553
64655	tcctcacaggttccacgagtcatgt	X65553
64656	gataactcagaattacttcacatgc	X65553
64657	aactcagaattacttcacatgctcg	X65553
64658	gctgtactacaagcccaccaagcga	X65553
64659	gtactacaagcccaccaagcgaaag	X65553
64660	aacagtgccactggtgttccaactg	X65553
64661	agtgccactggtgttccaactgtct	X65553
64662	gccactggtgttccaactgtctaaa	X65553
64663	ggtgttccaactgtctaaattgatc	X65553
64664	gttccaactgtctaaattgatcagg	X65553
64665	acagaaactcgtgcttcaccgaaga	X65553
64666	caggttccacgagtcatgtcaacac	X65553
64667	gttccacgagtcatgtcaacacagc	X65553
64668	ccacgagtcatgtcaacacagcgtg	X65553
64669	tcaacacagcgtgttgctaacacat	X65553
64670	gttgctaacacatcaacacagacaa	X65553
64671	aacacatcaacacagacaatgggtc	X65553
64672	acatcaacacagacaatgggtccac	X65553
64673	acaatgggtccacgtcctgcagctg	X65553
64674	cgactctgccaacaacgtggtgtat	U08337
64675	gtacgaggacatggtcgtggaatct	U08337
64676	cggagaccttcatttctctccagac	U08337
64677	tttctctccagactctccagagaag	U08337
64678	gctatatcctaagctctttaaggga	U08337
64679	tcctaagctctttaagggagagctg	U08337
64680	agagctgtctcctccttgaatcacc	U08337
64681	tccttgaatcacctttgtgcctggt	U08337
64682	aatcacctttgtgcctggtgacttt	U08337
64683	ctttgtgcctggtgactttctgcca	U08337
64684	tgactttctgccacgagatgttcat	U08337
64685	tctgccacgagatgttcattacagg	U08337
64686	tccagggtggcacatccagagacta	U08337
64687	tctacaggttcctggagtaacagag	U08337
64688	gtgaagctgctgcccgaagtttcct	U08337
64689	cagcaggcttactctctggatgtga	U08337
64690	actaaagagatcaccttctgaagat	U08337
64691	accttctgaagattcctgcccaagg	U08337
64692	tgaagattcctgcccaaggaacaga	U08337
64693	gattcagttcaccatctctcctgcc	U08337
64694	agcctggctcacccaactactgcaa	X60796
64695	accacggcagcggtggcataagccc	X60796
64696	ttccacgtacaagagcttgtgaaca	X60796
64697	aacacggatttcagccaggctgctc	X60796
64698	acggatttcagccaggctgctctca	X60796
64699	gatttcagccaggctgctctcaaag	X60796
64700	ttcagccaggctgctctcaaaggcc	X60796
64701	caggctgctctcaaaggcccctggt	X60796
64702	gctgctctcaaaggcccctggtcag	X60796
64703	gctctcaaaggcccctggtcaggag	X60796
64704	ctcaaaggcccctggtcaggagcag	X60796

SEQ ID NO	sequence	DBAxnID
107241	ggcagccttcctgaccaagtgtgtt	W15802
107242	ctttctgcctgggatgtctgctgca	W15802
107243	tctgcctgggatgtctgctgcaaag	W15802
107244	tgcaaagcagtgacctctgaccct	W15802
107245	aaagcagtgacctctgaccctggt	W15802
107246	tctgaccctggtgacctttgctct	W15802
107247	tggtgacctttgctctcggcaccgg	W15802
107248	tgacctttgctctcggcaccgggcc	W15802
107249	ggcctgtttccttttgctttgagtgc	W15802
107250	tcactcaaagttactatcgaagcgc	W10081
107251	actatcgaagcgccaatgccttgat	W10081
107252	gccttcctgagtggttgcgggagat	W10081
107253	aagtcatcactgtgttagtaggcaa	W10081
107254	tcatcactgtgttagtaggcaacaa	W10081
107255	agattgacctggctgaaaggcgaga	W10081
107256	aggtctcccagcagagagcagaaga	W10081
107257	aagagttctcagaggctcaggacat	W10081
107258	agttctcagaggctcaggacatgta	W10081
107259	tgtattacctggagacttcagccaa	W10081
107260	cttcagccaaggaatccgacaatgt	W10081
107261	ccaaggaatccgacaatgtggagaa	W10081
107262	atcgaagcgccaatgccttgatcct	W10081
107263	gcgccaatgccttgatccttaccta	W10081
107264	atgccttgatccttacctatgacat	W10081
107265	tgatccttacctatgacatcacctg	W10081
107266	tccttacctatgacatcacctgtga	W10081
107267	atgacatcacctgtgaggaatcctt	W10081
107268	acatcacctgtgaggaatccttccg	W10081
107269	aggaatccttccgctgccttcctga	W10081
107270	ggagcgcctctgagccttacctgca	W10082
107271	cctctgagccttacctgcatcggtc	W10082
107272	tgattacatctccaaggctaccagt	W10082
107273	catctccaaggctaccagtcttcta	W10082
107274	caaggctaccagtcttctagctgat	W10082
107275	ggctaccagtcttctagctgatgat	W10082
107276	taccagtcttctagctgatgatgta	W10082
107277	cagtcttctagctgatgatgtagct	W10082
107278	tcttctagctgatgatgtagctgtt	W10082
107279	tgtagctgttcttaggccaacaggg	W10082
107280	tcttaggccaacaggggacgaagat	W10082
107281	gtcagcaggtaccactttcgtgtct	W10082
107282	agccttacctgcatcggtcagctca	W10082
107283	cttacctgcatcggtcagctcacac	W10082
107284	acctgcatcggtcagctcacactga	W10082
107285	ggtcagctcacactgaggacatcag	W10082
107286	acatcagtgcttgcacgctgattac	W10082
107287	tcagtgcttgcacgctgattacatc	W10082
107288	gcacgctgattacatctccaaggct	W10082
107289	cgctgattacatctccaaggctacc	W10082
107290	cctattacaacctcgaggaatcatg	J00369
107291	acaacctcgaggaatcatgcacccg	J00369
107292	gagaaaagcccaacaccagctacat	J00369
107293	ccaacaccagctacatcattgggaa	J00369
107294	acaccagctacatcattgggaagga	J00369
107295	ccagctacatcattgggaaggacac	J00369
107296	cattcacagaatctatggtggttta	J00369
107297	atggttgtcccaactgactacagcc	J00369
107298	gttgtcccaactgactacagcccag	J00369
107299	ccagccctctaataaagcttcagtt	J00369
107300	gccctctaataaagcttcagttgta	J00369
107301	ctctaataaagcttcagttgtattt	J00369
107302	aggaatcatgcacccggttctatca	J00369
107303	aaatgtgccggtgtgctgaagagaa	J00369
107304	gcagaaacgccctgaagctgcagaa	J00369
107305	gaaacgccctgaagctgcagaaagg	J00369
107306	acgccctgaagctgcagaaagggaa	J00369
107307	ccctgaagctgcagaaagggaagaa	J00369
107308	agaagtacctcatgtggggcctctc	J00369

TABLE 1

SEQ ID NO	sequence	DBAxnID
22101	cctccacttcagagggatggagaaa	U26188
22102	ggtccttaacctgcagtttctgcct	U26188
22103	taacctgcagtttctgcctttaagc	U26188
22104	atctccaaacctatctaccatcagg	U26188
22105	ggacctggcccattaagaggcctca	U26188
22106	atctaccatcaggaatcccagtgct	U26188
22107	catcaggaatcccagtgcttgaagc	U26188
22108	gaatcccagtgcttgaagctgaagg	U26188
22109	ggcaaaatcactcataatccccagg	U26188
22110	gtcaacccacaggagaagagactcc	U26188
22111	agactccaagcagatgacccggaag	U26188
22112	gttttgcacagcattggttacagtg	U26188
22113	tcttgaaccatcatatgctcttggg	AA104316
22114	atcatatgctcttggggatatttct	AA104316
22115	ttggtccctacttgtcccgtgtgcg	AA104316
22116	tgtcccgtgtgcgtacataggctgg	AA104316
22117	tgcgtacataggctggcattggagt	AA104316
22118	gtacataggctggcattggagtcag	AA104316
22119	tcagtacagtctgctcttcttcatc	AA104316
22120	gtacagtctgctcttcttcatcttg	AA104316
22121	cagtctgctcttcttcatcttggtc	AA104316
22122	gctcttcttcatcttggtccatagc	AA104316
22123	cttcttcatcttggtccatagcagt	AA104316
22124	cttcatcttggtccatagcagtcac	AA104316
22125	atatgctcttggggatatttctgag	AA104316
22126	cttggtccatagcagtcaccagtcc	AA104316
22127	cgttccatctgggtgctgaatgggt	AA104316
22128	aagatgtccactttatgggagtagt	AA104316
22129	atgtccactttatgggagtagttgt	AA104316
22130	tagttgtttccatgaatctgctctg	AA104316
22131	tttccatgaatctgctctgggctca	AA104316
22132	atctgctctgggctcatgtatagct	AA104316
22133	atgtatagcttggtccctacttgtc	AA104316
22134	gttcccgtgcgttgagatttgattt	U26259
22135	acttgcctccgactgtagaccagcc	U26259
22136	ccgctctgcagtcttctgttaagag	U26259
22137	gttggcccagccataactcattccc	U26259
22138	ccagccataactcattcccttagca	U26259
22139	cattcccttagcaagccaaattaga	U26259
22140	aattagaattgccttctgtaaacag	U26259
22141	aacatgtgccaatttgttcctgtat	U26259
22142	taagttccttgttacaccatggtca	U26259
22143	ccttgttacaccatggtcattttct	U26259
22144	tacaccatggtcattttctagtttt	U26259
22145	cccagctcacaataaacgcatcaac	U26259
22146	tagttttacaactacaatcaagtca	U26259
22147	cacaataaacgcatcaacaaacctg	U26259
22148	tacaactacaatcaagtcattctcc	U26259
22149	taggaaactcttacactttgacact	U26259
22150	actcttacactttgacactcactgt	U26259
22151	acactttgacactcactgtgtgcga	U26259
22152	tgtgcgactcatagcatgccgctct	U26259
22153	actcatagcatgccgctctgcagtc	U26259
22154	agcatgccgctctgcagtcttctgt	U26259
22155	atgagcaagtctcttggcaatgtca	W65634
22156	gtttccttgcagggcctctatgacc	W65634
22157	ccagcagggattcccgagtgtggca	W65634
22158	ggcactgatgccctacgctttggac	W65634
22159	ctacgctttggactctgtgcctaca	W65634
22160	ctctgtgcctacacatcccaaggtc	W65634
22161	gacatcaacctggatgtgaacagga	W65634
22162	atcaacctggatgtgaacaggatcc	W65634
22163	atcctggggtaccgtcacttctgca	W65634
22164	taccgtcacttctgcaacaaactct	W65634
22165	cgtcacttctgcaacaaactctgga	W65634
22166	cacttctgcaacaaactctggaatg	W65634
22167	ttgcagggcctctatgaccaactac	W65634
22168	cagggcctctatgaccaactactga	W65634
64705	ccctggtcaggagcagcagagtgag	X60796
64706	gcccattggctcaagaagaggtgat	X60796
64707	ttgaaaccaacagggcaggtgaggc	X60796
64708	tcttaggttcaggcagagtagggtg	X60796
64709	gctggaccccaggcacaaagagcca	X60796
64710	ggaccccaggcacaaagagccacag	X60796
64711	caaagagccacagaaacaggattcc	X60796
64712	acaggattccacgtacaagagcttg	X60796
64713	ggattccacgtacaagagcttgtga	X60796
64714	actacagcaaatacctcgactcccg	Z46845
64715	attttgtgcagtggttgatgaacac	Z46845
64716	tggacaatcttgccaccagggactt	Z46845
64717	ccaccagggacttcatcaactggct	Z46845
64718	tcatcaactggctgattcaaaccaa	Z46845
64719	actggctgattcaaaccaagatcac	Z46845
64720	tgattcaaaccaagatcactgacaa	Z46845
64721	aggtactttcaccattcacaaccat	Z46845
64722	tttcaccattcacaaccatcttcac	Z46845
64723	caaccatcttcacaacatctctgcg	Z46845
64724	tcttcacaacatctctgcggaatga	Z46845
64725	caacatctctgcggaatgaattcca	Z46845
64726	acattgccaaacgtcatgatgaatt	Z46845
64727	ggacctttaccagtgatgtgagttc	Z46845
64728	acttcccagaagaagtcgccattgc	Z46845
64729	ctgaggaactcggccgcaggcacgc	Z46845
64730	aactcggccgcaggcacgctgatgg	Z46845
64731	ctgatggctccttctctgatgagat	Z46845
64732	gctccttctctgatgagatgagcac	Z46845
64733	ccattctggacaatcttgccaccag	Z46845
64734	accccagactccgtcagtttctgca	X51468
64735	tccgtcagtttctgcagaagtctct	X51468
64736	caccccgggaacgcaaagctggctg	X51468
64737	gctgcaagaacttcttctggaagac	X51468
64738	gcaagaacttcttctggaagacatt	X51468
64739	aatattgttgtcctagccagacctc	X51468
64740	attgttgtcctagccagacctctga	X51468
64741	gttgtcctagccagacctctgatcc	X51468
64742	ccatatctcttccttaactcctggc	X51468
64743	ctcaacttgaccctgcattagaaat	X51468
64744	aacttgaccctgcattagaaattga	X51468
64745	ttgaccctgcattagaaattgaaga	X51468
64746	agtttctgcagaagtctctggcggc	X51468
64747	tgcagaagtctctggcggctgccac	X51468
64748	atgatgccctggagcccgaggattt	X51468
64749	aggatttgccccaggcagctgagca	X51468
64750	atttgccccaggcagctgagcagga	X51468
64751	tgccccaggcagctgagcaggacga	X51468
64752	agaggtctgccaactcgaacccagc	X51468
64753	ggtctgccaactcgaacccagcaat	X51468
64754	agtgactacctcctaatggtttctg	AA061566
64755	tgactacctcctaatggtttctgta	AA061566
64756	cactggaagaggctccccagctgtg	AA061566
64757	aagaggctccccagctgtgactcta	AA061566
64758	ggctccccagctgtgactctagtac	AA061566
64759	ctccccagctgtgactctagtacag	AA061566
64760	ccccagctgtgactctagtacagtt	AA061566
64761	ccagctgtgactctagtacagttac	AA061566
64762	ctgtgactctagtacagttaccttc	AA061566
64763	gactctagtacagttaccttcaggc	AA061566
64764	ctctagtacagttaccttcaggcca	AA061566
64765	taccttcaggccaaactgtacaagt	AA061566
64766	tacctcctaatggtttctgtagctg	AA061566
64767	accttcaggccaaactgtacaagtg	AA061566
64768	cctcctaatggtttctgtagctgga	AA061566
64769	tggtttctgtagctggatcaggcac	AA061566
64770	gtttctgtagctggatcaggcactg	AA061566
64771	ttctgtagctggatcaggcactgga	AA061566
64772	gtagctggatcaggcactggaagag	AA061566
107309	tctcctctgacctctggggagaaaa	J00369
107310	cagcatgcaacctcaggcccaggtc	W29429
107311	gcatgcaacctcaggcccaggtcct	W29429
107312	cctgctcaaggacaaaggggagcac	W29429
107313	agcacctgtgccagctagaagctcc	W29429
107314	cacctgtgccagctagaagctccca	W29429
107315	cctgtgccagctagaagctcccatg	W29429
107316	tgtgccagctagaagctcccatggc	W29429
107317	tgccagctagaagctcccatggcaa	W29429
107318	ccagctagaagctcccatggcaatg	W29429
107319	agctagaagctcccatggcaatgag	W29429
107320	ctagaagctcccatggcaatgagca	W29429
107321	agaagctcccatggcaatgagcatc	W29429
107322	cctgctgatgtcagcaaggtagtag	W29429
107323	aagctcccatggcaatgagcatccc	W29429
107324	gccaaaggcctggggctaagcaagg	W29429
107325	caaaggcctggggctaagcaaggct	W29429
107326	agagcaacttcacagtagattgcag	W29429
107327	caacttcacagtagattgcagcaaa	W29429
107328	caggtaacaacatgctgctggtggg	W29429
107329	gaaacacatgggcagccgcctgtat	W29429
107330	aacacatgggcagccgcctgtatag	W29429
107331	tgtgaaacaccagctttcctcaaac	J04694
107332	ctcactcctaaaccagaggaggtgt	J04694
107333	cttcatcctgcatcctggcaggcat	J04694
107334	cctgcatcctggcaggcatttcaca	J04694
107335	tcctggcaggcatttcacacctgag	J04694
107336	caggcatttcacacctgagcacaca	J04694
107337	tttcacacctgagcacacacaggca	J04694
107338	acctgagcacacacaggcaacttcc	J04694
107339	ccagctcctctcgagctgtgacaca	J04694
107340	agactcggaccactatgcttgaagt	J04694
107341	ggaccactatgcttgaagtgacatt	J04694
107342	tttaagactactaaggccttctgtg	J04694
107343	aacccattcctaaacatggtgtctg	J04694
107344	ctaataaacctgtaagctttgctgc	J04694
107345	ttcctaaacatggtgtctgataatg	J04694
107346	tggcgcttcttgcttctgctctgcg	J04694
107347	cttctgctctgcgtggagtattttc	J04694
107348	ttgcaacactaaccacagactgaat	J04694
107349	cactaaccacagactgaatgactga	J04694
107350	tgactgacttcccgtacgacagcca	J04694
107351	tttgttagcctccttcatcctgcat	J04694
107352	tttctagtactggacatcaacccag	M24560
107353	ctggacatcaacccagtgccttgta	M24560
107354	cctttgccacttcatgtcatcatag	M24560
107355	ttgccacttcatgtcatcatagaat	M24560
107356	ctctagcggttcaaggtatgtattt	M24560
107357	tgtatagcagtcacacctttgataa	M24560
107358	atttcagtcttgcttattgtgaagc	M24560
107359	tcagtcttgcttattgtgaagcttt	M24560
107360	tgaaattgtcctgttgctacatcat	M24560
107361	cctgttgctacatcattctgttaag	M24560
107362	gttgctacatcattctgttaagaaa	M24560
107363	gctacatcattctgttaagaaataa	M24560
107364	aatgcaagcattttcttgtactctg	M24560
107365	agcattttcttgtactctgctacct	M24560
107366	ctacccaacaaatgttcattacagc	M24560
107367	tgttcattacagctgacaagggtct	M24560
107368	ttacagctgacaagggtctttataa	M24560
107369	gtgtttcccttatcacaatacaat	M24560
107370	tttatcacaatacaattccctcctt	M24560
107371	atcacaatacaattccctcctttgc	M24560
107372	ctccgggatctaccagccttggctc	J04695
107373	gatctaccagccttggctcacagcc	J04695
107374	ccacccaaggatgcatgcagtgtgc	J04695
107375	gcatgcagtgtgcttctgtctagac	J04695
107376	tctatcaaatccataactgccacct	J04695

TABLE 1

SEQ ID NO	sequence	DBAxnID
22169	tatgaccaactactgaacagcaacc	W65634
22170	gaccaactactgaacagcaacctgg	W65634
22171	aacagcaacctggatcccagtgagg	W65634
22172	cagaaggccgacttttccagcaggga	W65634
22173	gccgactttccagcagggattcccg	W65634
22174	tttccagcagggattcccgagtgtg	W65634
22175	cgggcctaggcacgatccctaatct	W65635
22176	gcctaggcacgatccctaatctcta	W65635
22177	tctgcacctgtcgcgagaccagctc	W65635
22178	cctgtcgcgagaccagctccggagt	W65635
22179	ccagctccggagtggcctcctgtta	W65635
22180	tggcctcctgttacctctgtttcta	W65635
22181	cctgttacctctgtttctactaatg	W65635
22182	acctctgtttctactaatgatgctg	W65635
22183	tctgtttctactaatgatgctggca	W65635
22184	gtttctactaatgatgctggcagac	W65635
22185	gctggtgcctggtgatttgggtaac	W65635
22186	acactacctttgctccaagaagacg	W65635
22187	taggcacgatccctaatctctaaag	W65635
22188	cctttgctccaagaagacggacagc	W65635
22189	tccctaatctctaaagcagcccctt	W65635
22190	ctaatctctaaagcagcccctggga	W65635
22191	tctaaagcagcccctggacctgcg	W65635
22192	ccttggacctgcgaccacagtctca	W65635
22193	tggacctgcgaccacagtctcacgc	W65635
22194	gaccacagtctcacgccatggatcg	W65635
22195	cacagtctcacgccatggatcgcca	W65635
22196	tgaaagcttgctggacctgctggtt	L35034
22197	aagcttgctggacctgctggttaac	L35034
22198	ctgctggcaggcacagcactgtctg	L35034
22199	ggcacagcactgtctgagatgtgaa	L35034
22200	gtgaatatcgttcctccgatgaccc	L35034
22201	cctccgatgacccttgtatgatttg	L35034
22202	ccgatgacccttgtatgatttggtt	L35034
22203	acccttgtatgatttggttatcaga	L35034
22204	tatcagaagctgtcacttgtgctgt	L35034
22205	aagctgtcacttgtgctgttcgaag	L35034
22206	tcacttgtgctgttcgaaggttgaa	L35034
22207	cgttactgtgccatttggatccttt	L35034
22208	ggacctgctggttaaccttctgaag	L35034
22209	tttggatcctttgtcttctctgccg	L35034
22210	gtttttctaagctggtgcaggtctc	L35034
22211	tttctaagctggtgcaggtctcctg	L35034
22212	tctcctgatgccttatgggaaacct	L35034
22213	gggtacaaactccaggtgagcgaga	L35034
22214	tacaaactccaggtgagcgagaatg	L35034
22215	aatgcaccttctcttggatcctggc	L35034
22216	aagcgcctgctggcaggcacagcac	L35034
22217	cacactgctcatcagcaaggtgcgt	W65827
22218	acactgctcatcagcaaggtgcgtg	W65827
22219	cgacacgcatcatgaacaccttcag	W65827
22220	gacacgcatcatgaacaccttcagc	W65827
22221	tgccttcacccaaagtgtcggacac	W65827
22222	gccttcacccaaagtgtcggacact	W65827
22223	ccttcacccaaagtgtcggacactg	W65827
22224	ttcacccaaagtgtcggacactgtg	W65827
22225	ctgtccatccaccagctagtggaga	W65827
22226	ccatccaccagctagtggagaacac	W65827
22227	catccaccagctagtggagaacaca	W65827
22228	atccaccagctagtggagaacacag	W65827
22229	cactgctcatcagcaaggtgcgtga	W65827
22230	actgctcatcagcaaggtgcgtgag	W65827
22231	tcatcagcaaggtgcgtgaggagta	W65827
22232	atcagcaaggtgcgtgaggagtacc	W65827
22233	tcagcaaggtgcgtgaggagtaccc	W65827
22234	aggagtaccccgacacgcatcatga	W65827
22235	gtaccccgacacgcatcatgaacac	W65827
22236	ccgacacgcatcatgaacaccttca	W65827

SEQ ID NO:	sequence	DBAxnID
64773	agctggatcaggcactggaagaggc	AA061566
64774	ggatcaggcactggaagaggctccc	AA061566
64775	cccccagaggcgcttcggcagttca	AA061581
64776	cccagaggcgcttcggcagttcagt	AA061581
64777	tcttttcctttccaagcgttcagca	AA061581
64778	tttcctttccaagcgttcagcaatt	AA061581
64779	ttcctttccaagcgttcagcaattc	AA061581
64780	cctttccaagcgttcagcaattcta	AA061581
64781	ctttccaagcgttcagcaattctaa	AA061581
64782	ttccaagcgttcagcaattctaact	AA061581
64783	tccaagcgttcagcaattctaactt	AA061581
64784	tcagcaattctaacttgaccaggag	AA061581
64785	agcaattctaacttgaccaggagtg	AA061581
64786	gcaattctaacttgaccaggagtga	AA061581
64787	ccagaggcgcttcggcagttcagtc	AA061581
64788	ttctaacttgaccaggagtgaaacg	AA061581
64789	cttcggcagttcagtcagttgttgc	AA061581
64790	cagttcagtcagttgttgcagagat	AA061581
64791	gttcagtcagttgttgcagagattg	AA061581
64792	ttcagtcagttgttgcagagattga	AA061581
64793	cttgaagccagtggtagttgaaatt	AA061581
64794	aattctgaactttaagccagattag	AA061581
64795	ttctgaactttaagccagattaggg	AA061581
64796	ttttttcgtcaatgggctgacactt	X14425
64797	cgtcaatgggctgacacttgggggc	X14425
64798	gactgccaagacgctagtcctgctg	X14425
64799	tgccaagacgctagtcctgctgatg	X14425
64800	gacgctagtcctgctgatgggcaaa	X14425
64801	agtcctgctgatgggcaaagaaggt	X14425
64802	ttatgaaatggcctctcacctgcgg	X14425
64803	ttcccagtactgacctcgtctgtcc	X14425
64804	ccagtactgacctcgtctgtcccctt	X14425
64805	cttctttccatacacacacatacca	X14425
64806	ctttccatacacacacatacccatta	X14425
64807	ttgctgccaaaaccacatgggctgg	X14425
64808	caatgggctgacacttgggggccag	X14425
64809	aatggatcttcgtaccaagagcacc	X14425
64810	ggatcttcgtaccaagagcaccgga	X14425
64811	caccttcaatgtcactgtcaccatg	X14425
64812	cttcaatgtcactgtcaccatgact	X14425
64813	tgtcactgtcaccatgactgccaag	X14425
64814	cactgtcaccatgactgccaagacg	X14425
64815	tgtcaccatgactgccaagacgcta	X14425
64816	agaacaagccagggagcagtcctgg	AA061604
64817	agcctgatgtgcttcattgacatgg	AA061604
64818	tgacgggactgcggaacctgggcaa	AA061604
64819	ggaacctgggcaacacctgctacat	AA061604
64820	tgggcaacacctgctacatgaacgc	AA061604
64821	acacctgctacatgaacgccatctt	AA061604
64822	gctacatgaacgccatcttgcaatg	AA061604
64823	acatgaacgccatcttgcaatgcct	AA061604
64824	tcttgcaatgcctctgcagcgtatc	AA061604
64825	tgcaatgcctctgcagcgtatctcc	AA061604
64826	gcctctgcagcgtatctccactggt	AA061604
64827	gcagcgtatctccactggtggagta	AA061604
64828	atgtgcttcattgacatggcgtctc	AA061604
64829	tatctccactggtggagtacttcct	AA061604
64830	ttcattgacatggcgtctcatcggc	AA061604
64831	attgacatggcgtctcatcggccgg	AA061604
64832	ccggtccctgcagacgacttcggtg	AA061604
64833	cctgcagacgacttcggtgcctact	AA061604
64834	gcctactacaacctggcgtgacggg	AA061604
64835	tactacaacctggcgtgacgggact	AA061604
64836	tacaacctggcgtgacgggactgcg	AA061604
64837	tgtaacaaagccgtaccttgccctg	X12905
64838	gactgcagccggctgagaatgtcca	X12905
64839	cactgctataacatccataactgta	X12905
64840	tataacatccataactgtatcatga	X12905

SEQ ID NO	sequence	DBAxnID
107377	ttttaagaccctgacggcagctggc	J04695
107378	gaccctgacggcagctggcacacag	J04695
107379	cacacagctcatggctctagccaaa	J04695
107380	gctcatggctctagccaaacccaca	J04695
107381	ggctctagccaaacccacagcaaag	J04695
107382	cattgacagtggcgtcctacaacct	J04695
107383	cagtggcgtcctacaacctgtgtca	J04695
107384	cataaacatcatgctaccaggtgtc	J04695
107385	catcatgctaccaggtgtccccaac	J04695
107386	gcttcccctggcaacaggctgctca	J04695
107387	aacaggctgctcaccttcctgcagt	J04695
107388	accttcctgcagtcttcctaaaatg	J04695
107389	ctgcagtcttcctaaaatgaggcag	J04695
107390	tcttcctaaaatgaggcagagtcta	J04695
107391	actgacccatttccacccaaggatg	J04695
107392	ataaggacttctactcagagcacac	L05630
107393	acttctactcagagcacactgtatg	L05630
107394	gctgtgttaacccctatcatctacgt	L05630
107395	ttaaccctatcatctacgtcatggc	L05630
107396	ctatcatctacgtcatggctggcca	L05630
107397	tctacgtcatggctggccagggttt	L05630
107398	ctggccagggtttccatggacgact	L05630
107399	tccatggacgactcctaaggtctct	L05630
107400	tccccagcatcatacgaaacgctct	L05630
107401	gcatcatacgaaacgctctctctga	L05630
107402	tacgaaacgctctctctgaggattc	L05630
107403	atagcaagactttcactccgtccac	L05630
107404	gcttccccaaagagaaggctgtggc	L05630
107405	tgcctctgctcactctaaacatctg	L05630
107406	tgctcactctaaacatctgctacac	L05630
107407	ctctaaacatctgctacaccttcct	L05630
107408	tcctgctccggacctggagtcgcaa	L05630
107409	tccggacctggagtcgcaaggccac	L05630
107410	ccaccaagacgctcaaagtggtgat	L05630
107411	cctatcaggtgaccggggtgatgat	L05630
107412	attgtagactctcagtttctgcttt	W10414
107413	gtagactctcagtttctgctttcag	W10414
107414	acatctgtgcctgatatcagacgct	W10414
107415	tctgtgcctgatatcagacgctgcc	W10414
107416	tgccagctgaccccccaatgacaggt	W10414
107417	ttgctggcttgcgacgggcttttca	W10414
107418	gcttgcgacgggcttttcaaggtct	W10414
107419	tttaccccagaagaagctgtgaact	W10414
107420	gctgtgaacttcatcttgtcctgcc	W10414
107421	gtgaacttcatcttgtcctgccttg	W10414
107422	ttcatcttgtcctgccttgaggatg	W10414
107423	atcttgtcctgccttgaggatgaca	W10414
107424	tttctgctttcagggacctgtgagg	W10414
107425	acagtctgacgttattcccttcatt	W10414
107426	tgacgttattcccttcattttagag	W10414
107427	cgttattcccttcattttagagatg	W10414
107428	tattcccttcattttagagatgggc	W10414
107429	gtatcgcgttccattggagatgggc	W10414
107430	tcgcgttccattggagatgggcagt	W10414
107431	tacaagcgctgtggggtcacatctg	W10414
107432	gtcctgttgtccatggactccttct	AA059557
107433	ttgtccatggactccttctataagg	AA059557
107434	ttcgatctcatcatttccaccctta	AA059557
107435	agtgtccaagtgcccatctatgatt	AA059557
107436	cccatctatgatttcactacccata	AA059557
107437	atctatgatttcactacccatagcc	AA059557
107438	tggaaaaccctgtatggtgcgaatg	AA059557
107439	accctgtatggtgcgaatgtcatca	AA059557
107440	aatgtcatcatctttgagggtatca	AA059557
107441	gtcatcatctttgagggtatcatgg	AA059557
107442	atcatggcctttgctgataagacac	AA059557
107443	atggcctttgctgataagacactgc	AA059557
107444	tccttctataaggttctgacgcagc	AA059557

TABLE 1

SEQ ID NO	sequence	DBAxnID
22237	gaacgaccacttggtgatgctcacg	W65850
22238	ccacttggtgatgctcacgaacgat	W65850
22239	ctcctggtccccagatgtgtgctgc	W65850
22240	gtccccagatgtgtgctgctgaaat	W65850
22241	cccagatgtgtgctgctgaaatcca	W65850
22242	ggttccaggatgccttctgtggcgc	W65850
22243	aggatgccttctgtggcgcctattt	W65850
22244	ccttctgtggcgcctatttcacttt	W65850
22245	tctgtggcgcctatttcacttttgc	W65850
22246	gtggcgcctatttcacttttgccat	W65850
22247	aaggccacgtgtatggctttggcct	W65850
22248	gctttggcctctccaactatcacca	W65850
22249	gatgctcacgaacgatggcgacctc	W65850
22250	ttggcctctccaactatcaccagct	W65850
22251	cacgaacgatggcgacctctacacc	W65850
22252	cgatggcgacctctacaccttgggt	W65850
22253	tggcgacctctacaccttgggttgt	W65850
22254	tcagctgggccgtgtacctgaatta	W65850
22255	atttgccaaccgaggtggccgtcag	W65850
22256	tcaggccttgggcgactcctggtcc	W65850
22257	cgactcctggtccccagatgtgtgc	W65850
22258	cactgcttcacacaggctatgatga	U25051
22259	ttcacacaggctatgatgagccagc	U25051
22260	acagccaactacctaggctgggcac	U25051
22261	aactacctaggctgggcactcatgc	U25051
22262	ctaggctgggcactcatgcatgcta	U25051
22263	ctcatgcatgctagtcccacaggcc	U25051
22264	tatgaagagcccttcactgctgaga	U25051
22265	gagcccttcactgctgagatctacc	U25051
22266	gagcagcactggccactgtacctgt	U25051
22267	cactggccactgtacctgtgcctta	U25051
22268	tacctgtgccttagaaaccagtcat	U25051
22269	cctcaggcattatgctgtgtgactg	U25051
22270	atgatgagccagcccaagatggagg	U25051
22271	agccagcccaagatggagggcctgg	U25051
22272	ctgtccagcttctatgcactggggt	U25051
22273	agcttctatgcactggggttcactg	U25051
22274	tatgcactggggttcactgggacct	U25051
22275	accacatttcccttcagcgtgctgg	U25051
22276	cccatgtactggggcagtacagcca	U25051
22277	ggcagtacagccaactacctaggct	U25051
22278	cagtttcattgcagagtcctcattt	W65908
22279	tttcattgcagagtcctcatttcta	W65908
22280	atgcatcggattggcagagctggcc	W65908
22281	attggcagagctggccgttttggta	W65908
22282	ggcagagctggccgttttggtacat	W65908
22283	ctgacagtgacctactgttgtagag	W65908
22284	acagtgacctactgttgtagaggag	W65908
22285	ttaccagatcctattcctattggcc	W65908
22286	ccagatcctattcctattggcctga	W65908
22287	gatcctattcctattggcctgatgg	W65908
22288	attcctattggcctgatggaagaat	W65908
22289	cctattggcctgatggaagaatgct	W65908
22290	gtcctcatttctacagacttgacgt	W65908
22291	atttctacagacttgacgtcccgtg	W65908
22292	acagacttgacgtcccgtgggattg	W65908
22293	acgtcccgtgggattgacgcagaga	W65908
22294	tcccgtgggattgacgcagagaagg	W65908
22295	ctcgatgtgccgttagactgggaga	W65908
22296	gatgtgccgttagactgggagactt	W65908
22297	tacatgcatcggattggcagagctg	W65908
22298	aaggtctctcccatgttaatcttgg	D38580
22299	tctcccatgttaatcttggtgctga	D38580
22300	acagatgtgcctggccagtaccttg	D38580
22301	cacctgcaggtgcagctgtcttctg	D38580
22302	caggtgcagctgtcttctgtgaagg	D38580
22303	ggccactacatgctctactgtgatg	D38580
22304	tacatgctctactgtgatggagaga	D38580

SEQ ID NO	sequence	DBAxnID
64841	atccataactgtatcatgaaaggtt	X12905
64842	tcacagtggagtacctggagtctgt	X12905
64843	tgcacaccaccatgtagtcccaacg	X12905
64844	ccgcctacagtttcaatggttgaag	X12905
64845	gggactccacggccactgtgtgaag	X12905
64846	ccacggccactgtgtgaagcgctac	X12905
64847	catgtgcctgtctgcaaagacccag	X12905
64848	cctgtctgcaaagacccagaagaga	X12905
64849	ctgagaatgtccatcaactgtgaag	X12905
64850	atgtccatcaactgtgaaggaaccc	X12905
64851	ggaaccccaggccagcagtcacgtt	X12905
64852	ccaggccagcagtcacgttcaagga	X12905
64853	cagcagtcacgttcaaggagctgtg	X12905
64854	tcacgttcaaggagctgtggcgacc	X12905
64855	tcaaggagctgtggcgaccgcaaat	X12905
64856	aaactccaggatattcgacactgct	X12905
64857	ccgtgagtgcccgctacaagtgtct	AA061641
64858	gattgtggctgacgctgagtcgcta	AA061641
64859	tatgatcccactgcatacagggatc	AA061641
64860	gatcccactgcatacagggatctgg	AA061641
64861	actgcatacagggatctggtaagac	AA061641
64862	tatgaagtcttccgacagtctctat	AA061641
64863	gaagtcttccgacagtctctatatg	AA061641
64864	gtcttccgacagtctctatatgact	AA061641
64865	ttccgacagtctctatatgacttgg	AA061641
64866	cagtctctatatgacttggcttcga	AA061641
64867	tctctatatgacttggcttcgagat	AA061641
64868	gcttcgagatagcctcttgtgctat	AA061641
64869	tgacgctgagtcgctaggacctggt	AA061641
64870	cgctgagtcgctaggacctggtgac	AA061641
64871	tgagtcgctaggacctggtgacagc	AA061641
64872	gctaggacctggtgacagcgctatg	AA061641
64873	aggacctggtgacagcgctatgatc	AA061641
64874	acctggtgacagcgctatgatccca	AA061641
64875	cagcgctatgatcccactgcataca	AA061641
64876	cgctatgatcccactgcatacaggg	AA061641
64877	cttatcaataacttgctacaagtga	Z34524
64878	agtcacccttggctacaggactatc	Z34524
64879	cacagcgacagtcctgaggctgaag	Z34524
64880	gacagtcctgaggctgaagagagag	Z34524
64881	gagcgtgtcagcatcctctgattcc	Z34524
64882	catcccctctaatctgtcaaaacac	Z34524
64883	tttaacatttgccttgcagaactgc	Z34524
64884	atttgccttgcagaactgccattat	Z34524
64885	cttgcagaactgccattattttctg	Z34524
64886	ccattattttctgtcagatgagaac	Z34524
64887	actgttagcactgttgatgtatctg	Z34524
64888	ttgtgtgaccaactgtgttgtatta	Z34524
64889	ccttggctacaggactatcagacct	Z34524
64890	taatacattaaacctgtctccactg	Z34524
64891	gactatcagacctggttagatttac	Z34524
64892	gaacgctatattacccacgaaagcg	Z34524
64893	gatgactccaggtgggaacagtacg	Z34524
64894	ccggcgcacctgatcagtctgagtg	Z34524
64895	cacctgatcagtctgagtgctagcc	Z34524
64896	atcagtctgagtgctagccacagcg	Z34524
64897	ctgagtgctagccacagcgacagtc	Z34524
64898	cattttcattccatgctccaaaatt	X63004
64899	tttcattccatgctccaaaattcag	X63004
64900	actctcagtcaactgtgaagctcta	X63004
64901	ctcagtcaactgtgaagctctaaca	X63004
64902	caactgtgaagctctaacagagtta	X63004
64903	tacgcattgtgtctttctacttcca	X63004
64904	gcattgtgtctttctacttccaaac	X63004
64905	gtttatttcaggtgaccagtagaca	X63004
64906	tatttcaggtgaccagtagacagat	X63004
64907	tgacttcaatatcatcctataacac	X63004
64908	caatatcatcctataacacactgat	X63004

SEQ ID NO	sequence	DBAxnID
107445	aaggttctgacgcagcagcagcagg	AA059557
107446	gaacaggctgcctgtaacaatttca	AA059557
107447	caggctgcctgtaacaatttcaact	AA059557
107448	ttcaactttgaccaccctgatgcct	AA059557
107449	gatgcctttgacttcgatctcatca	AA059557
107450	tttgacttcgatctcatcatttcca	AA059557
107451	gacttcgatctcatcatttccaccc	AA059557
107452	atgagctgtaccaatgccaacctgg	M35525
107453	gttctgcagatcaaacacaatttca	M35525
107454	tttttaaacagctgtgaatgaaaag	M35525
107455	tgaaaagttctgctgcacgaagatt	M35525
107456	gttctgctgcacgaagattcctcct	M35525
107457	tggaaacctagcctagaatcagata	M35525
107458	tcagatacactttctttagagtaaa	M35525
107459	ggtcccccaaggctatcagatgtca	M35525
107460	gagacccactgaaactgtagcccct	M35525
107461	cactgaaactgtagcccctttatcaa	M35525
107462	agccccttatcaaaacatatccttg	M35525
107463	ttatcaaaacatatccttgcttgaa	M35525
107464	aagtatatataccctctagattcct	M35525
107465	tccacctggattgaatattggccca	M35525
107466	tggcccacagacacaacgtgtccat	M35525
107467	acagacacaacgtgtccatcctgtc	M35525
107468	acaacgtgtccatcctgtcaagcat	M35525
107469	tgtccatcctgtcaagcatttgtag	M35525
107470	gctgaagacctcttttttaaacagct	M35525
107471	gacctcttttttaaacagctgtgaat	M35525
107472	agaaccggaggctgaagcaggccaa	AA050263
107473	agaagcccaggctgaaattgaacag	AA050263
107474	aagatgaccgtcctccagaactact	AA050263
107475	gatgaccgtcctccagaactacttc	AA050263
107476	tcctccagaactacttcgagcagaa	AA050263
107477	ctccagaactacttcgagcagaaca	AA050263
107478	agaactacttcgagcagaacaggga	AA050263
107479	aactacttcgagcagaacagggatg	AA050263
107480	tcctggataacctcttggcctttgt	AA050263
107481	ggataacctcttggcctttgtgtgt	AA050263
107482	cctcttggcctttgtgtgtgacatc	AA050263
107483	ttggcctttgtgtgtgacatccggc	AA050263
107484	aaattgaacagtaccgcctgcagag	AA050263
107485	cctttgtgtgtgacatccggccgga	AA050263
107486	attgaacagtaccgcctgcagaggg	AA050263
107487	aacagtaccgcctgcagagggagaa	AA050263
107488	cagtaccgcctgcagagggagaagg	AA050263
107489	aagctgcggcattgggctcccatgg	AA050263
107490	gcattgggctcccatggcagctgca	AA050263
107491	attgggctcccatggcagctgcagc	AA050263
107492	agaagatgaccgtcctccagaacta	AA050263
107493	ccacctcgctgtaaaaatggtgtgt	M31131
107494	atgtttatcagcatagactatggag	M31131
107495	gacttctgaaacagctttgcgtctg	M31131
107496	tctgaaacagctttgcgtctgtgtt	M31131
107497	tgaaacagctttgcgtctgtgttgt	M31131
107498	acagctttgcgtctgtgttgtgtac	M31131
107499	agctttgcgtctgtgttgtgtacca	M31131
107500	ttgcgtctgtgttgtgtaccagaat	M31131
107501	gcgtctgtgttgtgtaccagaatac	M31131
107502	agaatacaaacaatacacctctgac	M31131
107503	tacaaacaatacacctctgacccca	M31131
107504	ctctgaccccagcgttctgaataaa	M31131
107505	ttatcagcatagactatggaggagt	M31131
107506	atttgattcaactgttgagctgtag	M31131
107507	gattcaactgttgagctgtagttag	M31131
107508	aagttcttagcacaatgttttacat	M31131
107509	gttcttagcacaatgttttacataa	M31131
107510	ggcctgtttcttgcagcactagcaa	M31131
107511	cctgtttcttgcagcactagcaagt	M31131
107512	gagacttctgaaacagctttgcgtc	M31131

TABLE 1

SEQ ID NO	sequence	DBAxnID
22305	aacctggtcatacttgagcagatgg	D38580
22306	agccgcccaagtgagtgagtgccgc	D38580
22307	gtgccgccagcatgtctgtcccatg	D38580
22308	ccagcatgtctgtcccatgggaggt	D38580
22309	ccccagcttctcaataaagagcttc	D38580
22310	atgttaatcttggtgctgaacaatg	D38580
22311	ttctcaataaagagcttcagcagtc	D38580
22312	atcttggtgctgaacaatggggaca	D38580
22313	atagagctttctatcacacatatga	D38580
22314	ctttctatcacacatatgatctatg	D38580
22315	atcacacatatgatctatgatcagt	D38580
22316	atctatgatcagtgtcttgaagtga	D38580
22317	tgtcttgaagtgaccaccatcttgg	D38580
22318	gaagtgaccaccatcttggagaaaa	D38580
22319	atgccgagaacctgctcaggctgtg	W83527
22320	agaacctgctcaggctgtgcaaaga	W83527
22321	tccctgaaatcgtgcaccactatgc	W83527
22322	ctgaaatcgtgcaccactatgccag	W83527
22323	aaatcgtgcaccactatgccagccg	W83527
22324	actatgccagccgcaagctgcccat	W83527
22325	gccgcaagctgcccattaagggagc	W83527
22326	gagcggaacacatgtccctgctcta	W83527
22327	tgtccctgctctaccctgtggccat	W83527
22328	tgctctaccctgtggccatccggac	W83527
22329	accctgtggccatccggactctgta	W83527
22330	tggccatccggactctgtagatgtg	W83527
22331	tgctcaggctgtgcaaagaggccag	W83527
22332	tccggactctgtagatgtgagacca	W83527
22333	aagaggccagctacctggtgcgcaa	W83527
22334	aggccagctacctggtgcgcaacag	W83527
22335	gctacctggtgcgcaacagtgagac	W83527
22336	gcaaaaatgacttctctctctccct	W83527
22337	agagcagtcagggcttcatgcacat	W83527
22338	gcttcatgcacatgaagctgtcccg	W83527
22339	ccttcagcagcgtccctgaaatcgt	W83527
22340	atcggctcggtgacggaatccctgc	W65920
22341	gctcggtgacggaatccctgcaggc	W65920
22342	caccgttctgagcaaactgaggaca	W65920
22343	aactgaggacactgtcatcgcagac	W65920
22344	acactgtcatcgcagacctggtggg	W65920
22345	ctctgcactgggcagatcaatgact	W65920
22346	tctgcactgggcagatcaatgactg	W65920
22347	ctgcactgggcagatcaatgactgg	W65920
22348	atcaatgactggatgccccttgagg	W65920
22349	tcaatgactggatgccccttgagga	W65920
22350	caatgactggatgccccttgaggat	W65920
22351	aatgactggatgccccttgaggatt	W65920
22352	acggaatccctgcaggcgtgtaagc	W65920
22353	cttgaggattcgagcgtgtgagcaa	W65920
22354	cggaatccctgcaggcgtgtaagct	W65920
22355	ggaatccctgcaggcgtgtaagctg	W65920
22356	aatccctgcaggcgtgtaagctggc	W65920
22357	atccctgcaggcgtgtaagctggcc	W65920
22358	tccctgcaggcgtgtaagctggccc	W65920
22359	cctgcaggcgtgtaagctggccctc	W65920
22360	gtcccaccgttctgagcaaactgag	W65920
22361	gtgaacctatggtactccttccagg	W65887
22362	ctatggtactccttccaggatgagg	W65887
22363	tacatctgtgagctggccctggctc	W65887
22364	tacctgcagaggtaccacatcatcc	W65887
22365	cagaggtaccacatcatccacagag	W65887
22366	aggtaccacatcatccacagagaca	W65887
22367	taccacatcatccacagagacatca	W65887
22368	gacatcaagccagacaacatcctac	W65887
22369	atcaagccagacaacatcctactgg	W65887
22370	gacaacatcctactggatgagcatg	W65887
22371	aacatcctactggatgagcatgggc	W65887
22372	atcctactggatgagcatgggcacg	W65887

SEQ ID NO:	sequence	DBAxnID
64909	catcctataacacactgatgtcaat	X63004
64910	tccatgctccaaaattcagtgatga	X63004
64911	atgctccaaaattcagtgatgacca	X63004
64912	aattcagtgatgaccaccttgttcc	X63004
64913	tcagtgatgaccaccttgttcctag	X63004
64914	gtgatgaccaccttgttcctagaga	X63004
64915	accttgttcctagagatatagatca	X63004
64916	gatacatccaaaacatgaataatct	X63004
64917	tttaaattcactctcagtcaactgt	X63004
64918	accagtgcactccaatatccccatg	AA061707
64919	gcactccaatatccccatgatggac	AA061707
64920	ctccatcacagttaacgacattgta	AA061707
64921	catcacagttaacgacattgtacat	AA061707
64922	cgacattgtacatgtcgtggacagc	AA061707
64923	cattgtacatgtcgtggacagcggt	AA061707
64924	acatgtcgtggacagcggtctgcac	AA061707
64925	tgtcgtggacagcggtctgcacaag	AA061707
64926	ctatgacctgaagaccaaggtgtcc	AA061707
64927	tgacctgaagaccaaggtgtcctgc	AA061707
64928	gaccaaggtgtcctgcctggagact	AA061707
64929	ccgctgccagtcaggttttgcctac	AA061707
64930	ctccaatatccccatgatggaccag	AA061707
64931	caatatccccatgatggaccagaag	AA061707
64932	ggccatattccaacagcctccactt	AA061707
64933	gattgtattggccaccaacattgct	AA061707
64934	ggccaccaacattgctgaaacctcc	AA061707
64935	caccaacattgctgaaacctccatc	AA061707
64936	cattgctgaaacctccatcacagtt	AA061707
64937	tgaaacctccatcacagttaacgac	AA061707
64938	tcctcagcacactgaatccaagtgt	X01697
64939	tcctctctaatctactggcaggaca	X01697
64940	actctccagtggtttcatcttactt	X01697
64941	tggtttcatcttacttctgatggca	X01697
64942	catcttacttctgatggcatttccc	X01697
64943	acttctgatggcatttccctctaga	X01697
64944	tctgatggcatttccctctagaaag	X01697
64945	gatggcatttccctctagaaagtgc	X01697
64946	aaagtgctactatcatccacacatt	X01697
64947	ctactatcatccacacatttctacc	X01697
64948	tcatccacacatttctacctgagac	X01697
64949	tccacacatttctacctgagaccac	X01697
64950	tctctaatctactggcaggacaggt	X01697
64951	atctactggcaggacaggtacaact	X01697
64952	gacaggtacaacttgccctctgaag	X01697
64953	gatgccacaaatctcctgctggcta	X01697
64954	gccacaaatctcctgctggctactc	X01697
64955	aatctcctgctggctactctccagt	X01697
64956	ctgctggctactctccagtggtttc	X01697
64957	gctactctccagtggtttcatctta	X01697
64958	tgttgttactaagccttatactgtg	X83601
64959	tactaagccttatactgtggtgctt	X83601
64960	accctcagataactaaacatgactg	X83601
64961	ctaaacatgactggactctgaacag	X83601
64962	atgactggactctgaacagagggac	X83601
64963	actggactctgaacagagggacgat	X83601
64964	ttattttggccagagacatttttat	X83601
64965	agctctgttgcccattgttcattct	X83601
64966	gttgcccattgttcattctttctgg	X83601
64967	tataccacaaagtgacttattaacg	X83601
64968	ataatccaatccatttgggagaagg	X83601
64969	atccaatccatttgggagaaggtag	X83601
64970	taagccttatactgtggtgctttca	X83601
64971	gccttatactgtggtgctttcagat	X83601
64972	tactgtggtgctttcagattaatgt	X83601
64973	agattaatgtctgcctctgtcagat	X83601
64974	tctgcctctgtcagataaaccctca	X83601
64975	gcctctgtcagataaaccctcagat	X83601
64976	tctgtcagataaaccctcagataac	X83601

SEQ ID NO	sequence	DBAxnID
107513	aaagtgtgacctgggtgatctgcaa	L36655
107514	gtgtgacctgggtgatctgcaagga	L36655
107515	tacagcagcatccaataaagggatc	L36655
107516	atttaatccacagaactaaaatgct	L36655
107517	taatccacagaactaaaatgctttc	L36655
107518	atactctataagtttgcctactgta	L36655
107519	ctttctgctctcttcactttaaata	L36655
107520	agcgctgatagcagccttccagttc	L36655
107521	gctgatagcagccttccagttctgt	L36655
107522	agcagccttccagttctgttcaagt	L36655
107523	agccttccagttctgttcaagtata	L36655
107524	cttccagttctgttcaagtatatgg	L36655
107525	tcagtctaagcccagagcagctggc	L36655
107526	gtctaagcccagagcagctggccca	L36655
107527	tccgtggtcttctgtcaagtgcaga	L36655
107528	agtctgcagttccagttctgagcaa	L36655
107529	cagttccagttctgagcaaccaccg	L36655
107530	tcagagcctcattttgagtcccagc	L36655
107531	gagtcccagcaaggaatgagtcctc	L36655
107532	atgagtcctcaattatgacctggcc	L36655
107533	cctcaggtgtcagatcccctgaaac	AA153320
107534	gtgtcagatcccctgaaactgaagt	AA153320
107535	tgctcttaactgttgagccacctct	AA153320
107536	tccagcctcaccaagtcttatctga	AA153320
107537	agcctcaccaagtcttatctgataa	AA153320
107538	ctcaccaagtcttatctgataatga	AA153320
107539	tgaatagatctcctcctgtccatct	AA153320
107540	atagatctcctcctgtccatctctg	AA153320
107541	ctcctgtccatctctggactataag	AA153320
107542	ctgtccatctctggactataagtac	AA153320
107543	tccatctctggactataagtactac	AA153320
107544	ggacatcaatgcaagcctgaagaaa	AA153320
107545	tcagatcccctgaaactgaagttac	AA153320
107546	gatcccctgaaactgaagttacaga	AA153320
107547	tggaatcaaacctgggtcctctgga	AA153320
107548	caaacctgggtcctctggaagagct	AA153320
107549	gtcctctggaagagctgccagtgct	AA153320
107550	aagagctgccagtgctcttaactgt	AA153320
107551	agctgccagtgctcttaactgttga	AA153320
107552	cagtgctcttaactgttgagccacc	AA153320
107553	cttttacacactttgacccatcatg	M27796
107554	cacactttgacccatcatgcctgtt	M27796
107555	cagagaatgagccccccggtgcctct	M27796
107556	ccctgaagagcctgcttgtctcctc	M27796
107557	agagcctgcttgtctcctcctgtgc	M27796
107558	tgcttgtctcctcctgtgctcccta	M27796
107559	actccaagctgtccgacgaacacct	M27796
107560	gaagcagtcacatgcaaccgcagtg	M27796
107561	tgcaaccgcagtgccttttgacatg	M27796
107562	cgcagtgccttttgacatgatctca	M27796
107563	aagcatgaatttcacacctaacatt	M27796
107564	gaatttcacacctaacattcttaat	M27796
107565	ttgacccatcatgcctgttccctgc	M27796
107566	tccctgcttgccgggactattggac	M27796
107567	cttgccgggactattggacctatca	M27796
107568	ttgtgtggctgctgctcaaagagcc	M27796
107569	aagagcccatgactgtgagctcaga	M27796
107570	ctgtgagctcagaccagatggccaa	M27796
107571	gctcagaccagatggccaagctgcg	M27796
107572	tcttctccagcgcagagaatgagcc	M27796
107573	gtccaacagacagttacgcagccat	W34066
107574	ccaacagacagttacgcagccattt	W34066
107575	agcgcctggaagccctcgatgccaa	W34066
107576	cgcctggaagccctcgatgccaatt	W34066
107577	cctggaagccctcgatgccaattct	W34066
107578	gaagccctcgatgccaattctcgga	W34066
107579	ctcgatgccaattctcggaagcaag	W34066
107580	cgatgccaattctcggaagcaagaa	W34066

TABLE 1

SEQ ID NO	sequence	DBAxnID
22373	tactccttccaggatgaggaagaca	W65887
22374	taccacctacagcagaatgtgcact	W65887
22375	cacctacagcagaatgtgcacttca	W65887
22376	cagaatgtgcacttcacagagggga	W65887
22377	aatgtgcacttcacagaggggaccg	W65887
22378	gtgcacttcacagaggggaccgtga	W65887
22379	ttcacagaggggaccgtgaagctgt	W65887
22380	aagctgtacatctgtgagctggccc	W65887
22381	tgctccatttgacgattacattcag	U15647
22382	cattcagatccacattcccagtgtc	U15647
22383	gtctgtccctttacagaagctcaat	U15647
22384	cggttttagttccatgcttcttgct	U15647
22385	catgcttcttgcttatactcagaac	U15647
22386	tcttgcttatactcagaacttctgg	U15647
22387	ttatactcagaacttctgggtccat	U15647
22388	tcagaacttctgggtccatctaagt	U15647
22389	ggtccatctaagtccttcaatactg	U15647
22390	tccttcaatactgatgcttgctcac	U15647
22391	aatactgatgcttgctcacaggaga	U15647
22392	tgaatacccttctggtccttcctcg	U15647
22393	cattcccagtgtccagtctgtcacc	U15647
22394	ccatcactctcagacaatctgggat	U15647
22395	cccattattgccaaatctatgccca	U15647
22396	attgccaaatctatgcccatctgtc	U15647
22397	aaatctatgcccatctgtccgagac	U15647
22398	atctgtccgagactttgattcacac	U15647
22399	acaatagcaccctgtagaaattgtt	U15647
22400	caaatagtccatgtcatttaagagg	U15647
22401	ccatgtgtctgtccctttacagaag	U15647
22402	gtatccccacgacacaatcacttcg	W65899
22403	atccccacgacacaatcacttcggg	W65899
22404	gaattgccctggctacaggctccct	W65899
22405	aattgccctggctacaggctccctg	W65899
22406	attgccctggctacaggctccctgg	W65899
22407	ttgccctggctacaggctccctgga	W65899
22408	tgccctggctacaggctccctggac	W65899
22409	cctggactccttcctccagattttg	W65899
22410	tccccacgacacaatcacttcggga	W65899
22411	ccacgacacaatcacttcgggaaca	W65899
22412	cacgacacaatcacttcgggaacac	W65899
22413	gacacaatcacttcgggaacacccg	W65899
22414	attattgaattgccctggctacagg	W65899
22415	ttattgaattgccctggctacaggc	W65899
22416	tattgaattgccctggctacaggct	W65899
22417	tgaattgccctggctacaggctccc	W65899
22418	cacctgacagggagatgtggccaac	U17259
22419	agatgtggccaacatccttaggctt	U17259
22420	attattgtacacagcagctaggtaa	U17259
22421	atagtatatctcaaaccatcctgcc	U17259
22422	tatctcaaaccatcctgccagatac	U17259
22423	aaaccatcctgccagatactctcat	U17259
22424	tcctgccagatactctcatctgatt	U17259
22425	tcttcccatcaccttgagtcacctg	U17259
22426	catcaccttgagtcacctgtaaatt	U17259
22427	tcacctgtaaattcatttgtcatct	U17259
22428	tcatttgtcatctgaaacggatcaa	U17259
22429	tagcaaaaccacagagcgctttata	U17259
22430	taggcttctcactggcactttagca	U17259
22431	tctcactggcactttagcaagggcc	U17259
22432	tttagcaagggcctcctgcttctcg	U17259
22433	cttctcgagagcattccaggaaatc	U17259
22434	tcttagaggtgctggccccaggtcc	U17259
22435	tggccccaggtccaagagaattaga	U17259
22436	cccatttggtctgcataggccgttt	U17259
22437	tggtctgcataggccgtttaagggt	U17259
22438	ccatggacgtatctcccgcgaggag	U18996
22439	acgtatctcccgcgaggagtctcac	U18996
22440	gaccttcttcactctggatgatggg	U18996

SEQ ID NO:	sequence	DBAxnID
64977	taaaccctcagataactaaacatga	X83601
64978	ttctgtataggctccggcctctgct	X59382
64979	tgtataggctccggcctctgctcat	X59382
64980	ctatggccctcggatgacgccattc	X59382
64981	tggccctcggatgacgccattcttc	X59382
64982	tcggatgacgccattcttctggaaa	X59382
64983	gatgacgccattcttctggaaatgc	X59382
64984	gacgccattcttctggaaatgctgg	X59382
64985	attcttctggaaatgctggagaaac	X59382
64986	taaaggctgtaccaatcggacacca	X59382
64987	aggctgtaccaatcggacaccacct	X59382
64988	taccaatcggacaccacctgtaggg	X59382
64989	caatcggacaccacctgtagggagg	X59382
64990	tccggcctctgctcatccaagttgc	X59382
64991	ggcctctgctcatccaagttgcagg	X59382
64992	tgctcatccaagttgcaggatgtcg	X59382
64993	tcatccaagttgcaggatgtcgatg	X59382
64994	aggagcctttgctgctgcagactcc	X59382
64995	ctttgctgctgcagactccttcgac	X59382
64996	ctcgcggccctcctgagtttctgtt	X59382
64997	gcggccctcctgagtttctgttcag	X59382
64998	tgaacctcatcgaggtgttcagaag	AA061797
64999	acctcatcgaggtgttcagaagaaa	AA061797
65000	ttcaagcccttaacttctgtcacaa	AA061797
65001	aagcccttaacttctgtcacaagca	AA061797
65002	ttaacttctgtcacaagcacaattg	AA061797
65003	acttctgtcacaagcacaattgtat	AA061797
65004	tctgtcacaagcacaattgtattca	AA061797
65005	gtcacaagcacaattgtattcatcg	AA061797
65006	agcacaattgtattcatcgggatgt	AA061797
65007	ctgaaaacatcctaataaccaagca	AA061797
65008	acatcctaataaccaagcaagggat	AA061797
65009	tcctaataaccaagcaagggatgat	AA061797
65010	agatgcatctagtttttgagtactg	AA061797
65011	agtactgtgatcacacactgttaaa	AA061797
65012	actgtgatcacacactgttaaacga	AA061797
65013	atcacacactgttaaacgagctgga	AA061797
65014	acacactgttaaacgagctggagag	AA061797
65015	cactgttaaacgagctggagagaaa	AA061797
65016	gtgtgctatggcaaacccttcaagc	AA061797
65017	tgctatggcaaacccttcaagccct	AA061797
65018	ggattctccagccacgagtgccctc	Z12002
65019	cacgagtgccctctgaaattctatc	Z12002
65020	ttctatgtcaatttccagacaggca	Z12002
65021	gtcaatttccagacaggcattctct	Z12002
65022	ttccagacaggcattctctgcccat	Z12002
65023	acaggcattctctgcccatcctcta	Z12002
65024	tctttgctgttacctgtatgcccta	Z12002
65025	gttagcatttctttccaggatgcaa	Z12002
65026	ttccaggatgcaagcctagtgatga	Z12002
65027	tcattgttccattgtcagaatagct	Z12002
65028	aatagctacagaatccagcctgttc	Z12002
65029	tacagaatccagcctgttctgccct	Z12002
65030	tgccctctgaaattctatcttatta	Z12002
65031	tcattttcctgcttgttcacaccac	Z12002
65032	ttcctggtacactctggcctcagtc	Z12002
65033	gtacactctggcctcagtctttcca	Z12002
65034	ctagaacattcttgcctgcataact	Z12002
65035	tgcctgcataactatctgcttctgt	Z12002
65036	cataactatctgcttctgtcctcac	Z12002
65037	tcctcactgtattctgatctgtatt	Z12002
65038	tatgagcgtctctccgcctggtcac	AA063962
65039	tctctccgcctggtcacatgttgca	AA063962
65040	gctggacaccctgatgcctcgcagg	AA063962
65041	gacaccctgatgcctcgcaggacac	AA063962
65042	ctgatgcctcgcaggacaccccagg	AA063962
65043	caagctttcgtcaggtccaggccac	AA063962
65044	agctttcgtcaggtccaggccacct	AA063962

SEQ ID NO	sequence	DBAxnID
107581	atgccaattctcggaagcaagaagc	W34066
107582	gccaattctcggaagcaagaagcgg	W34066
107583	caattctcggaagcaagaagcggag	W34066
107584	caaacaacagggcagcagaagaagc	W34066
107585	aacagacagttacgcagccatttca	W34066
107586	cagacagttacgcagccatttcaga	W34066
107587	gacagttacgcagccatttcagaag	W34066
107588	cagttacgcagccatttcagaagtg	W34066
107589	gcagacagagcgcctggaagccctc	W34066
107590	agacagagcgcctggaagccctcga	W34066
107591	acagagcgcctggaagccctcgatg	W34066
107592	agagcgcctggaagccctcgatgcc	W34066
107593	gtgccataccacacgtttatgaagc	W10491
107594	gccataccacacgtttatgaagcag	W10491
107595	ccttcaagcgactacagacccgata	W10491
107596	ttcaagcgactacagacccgatact	W10491
107597	caagcgactacagacccgatactgc	W10491
107598	agcgactacagacccgatactgcaa	W10491
107599	cgactacagacccgatactgcaatt	W10491
107600	actacagacccgatactgcaattga	W10491
107601	tacagacccgatactgcaattgatg	W10491
107602	cagacccgatactgcaattgatgct	W10491
107603	gacccgatactgcaattgatgctgc	W10491
107604	ttgttccaggctggagagcccaacg	W10491
107605	cataccacacgtttatgaagcagaa	W10491
107606	taccacacgtttatgaagcagaata	W10491
107607	agatgatgccgtgcgcgatacttca	W10491
107608	atgatgccgtgcgcgatacttcatg	W10491
107609	gatgccgtgcgcgatacttcatggt	W10491
107610	tgccgtgcgcgatacttcatggtac	W10491
107611	ccgtgcgcgatacttcatggtacta	W10491
107612	ctccttcaagcgactacagacccga	W10491
107613	gacctttttacctctcatccgttgtg	K00811
107614	ctcatccgttgtgcttactaacaaa	K00811
107615	gacatggcctcttgcttctcttcac	K00811
107616	tcttcacagccataggataatgaat	K00811
107617	aatgaatactcaggcctgtttgtta	K00811
107618	attaattacaagtccacatcatgag	K00811
107619	tccacatcatgagacaaactgaagt	K00811
107620	agatgaatgttcacccttccaagat	K00811
107621	tatatttcccttcagataacatacc	K00811
107622	tcccttcagataacataccacaaca	K00811
107623	cagataacataccacaacacaatgg	K00811
107624	acataccacaacacaatggataatg	K00811
107625	aagacccaggtgtctcatgtggtgg	K00811
107626	tctcatgtggtggcagcacagtggc	K00811
107627	gcagcacagtggcaggccagtggtc	K00811
107628	cagtggcaggccagtggtcaactta	K00811
107629	caggccagtggtcaacttagggcat	K00811
107630	agggcatcttttctctgccacggca	K00811
107631	tcttttctctgccacggcagcgcaa	K00811
107632	ctctgccacggcagcgcaatgcaaa	K00811
107633	aagctcaatgacctcatcaagcggg	W40735
107634	tcaatgacctcatcaagcgggccag	W40735
107635	aaccaccttatcaaggtgaagctag	W40735
107636	ccaccttatcaaggtgaagctagag	W40735
107637	cctccaaacggaggcacgagtgact	W40735
107638	tccaaacggaggcacgagtgacttc	W40735
107639	cacgagtgacttccatgcctgagat	W40735
107640	cgagtgacttccatgcctgagatac	W40735
107641	tgacttccatgcctgagataccta	W40735
107642	acttccatgcctgagataccctaca	W40735
107643	ttccatgcctgagataccctacaac	W40735
107644	cagggctgctgccactttctaccca	W40735
107645	aatgacctcatcaagcgggccaggc	W40735
107646	tgacctcatcaagcgggccaggctg	W40735
107647	acctcatcaagcgggccaggctggc	W40735
107648	catcaagcgggccaggctggcagat	W40735

TABLE 1

SEQ ID NO	sequence	DBAxnID
22441	cttcactctggatgatgggaacacc	U18996
22442	caagttctccgatctgatccagctg	U18996
22443	ctccgatctgatccagctggtcgac	U18996
22444	ctgcaagctgaaacaccactgcatc	U18996
22445	gctgaaacaccactgcatccgcgtg	U18996
22446	acaccactgcatccgcgtggcctta	U18996
22447	tccttgcccactcacagaggctgga	U18996
22448	aggcagcgacactggaacggagaag	U18996
22449	gttccttcgggaagctgctgagcca	U18996
22450	ctcccgcgaggagtctcacaggatc	U18996
22451	gtctcacaggatcatcaagcaacaa	U18996
22452	catcaagcaacaaggtctcgtggac	U18996
22453	gcaacaaggtctcgtggacgggctg	U18996
22454	cgggctgttcctccttcgtgacagc	U18996
22455	gttcctccttcgtgacagccagagt	U18996
22456	ccagatcttaccttgcgaggatgat	U18996
22457	cttaccttgcgaggatgatgggcag	U18996
22458	ccttctctagacttgtgtaaacatg	AA015180
22459	ttctctagacttgtgtaaacatggg	AA015180
22460	aagactggcaaggccaggctgtagt	AA015180
22461	gactggcaaggccaggctgtagtaa	AA015180
22462	ctggcaaggccaggctgtagtaaca	AA015180
22463	tctgtgctaaggttttcaggtttgg	AA015180
22464	ggttttcaggtttggcactgccagg	AA015180
22465	ttcaggtttggcactgccagggatg	AA015180
22466	ggtttggcactgccagggatggcat	AA015180
22467	tttggcactgccagggatggcattt	AA015180
22468	tggcactgccagggatggcatttag	AA015180
22469	gcactgccagggatggcatttagga	AA015180
22470	cccttcaccctgttcagtgaactgc	AA015180
22471	cctgttcagtgaactgcactttgtg	AA015180
22472	tgttcagtgaactgcactttgtggt	AA015180
22473	ttcagtgaactgcactttgtggtca	AA015180
22474	cagtgaactgcactttgtggtcagt	AA015180
22475	gaactgcactttgtggtcagtaaag	AA015180
22476	actgcactttgtggtcagtaaagac	AA015180
22477	tgcactttgtggtcagtaaagactg	AA015180
22478	caatcacttactgaagagccctttc	J04620
22479	cttactgaagagccctttcagtgtt	J04620
22480	ggtttccactcatgagaaggaaaag	J04620
22481	agctgacagcaaacacagagtcaga	J04620
22482	cagcaaacacagagtcagaggttac	J04620
22483	gaccagtctagcaccgtatgtgaaa	J04620
22484	cccatcaaaccaacgtgaatgcctt	J04620
22485	catcaatgggcctcaatccttgaag	J04620
22486	tcaatccttgaagcagaactttctt	J04620
22487	gcagaactttctttcgagaagtaat	J04620
22488	tttatgtcaaggagacctggtttgt	J04620
22489	tcaaggagacctggtttgtgagacc	J04620
22490	cccttcagtgttcatcccaagaca	J04620
22491	cagtgttcatcccaagacaggtcgg	J04620
22492	tcatcccaagacaggtcggatttct	J04620
22493	gatttctgtgcctatcgattttcat	J04620
22494	tgtgcctatcgattttcataaagtg	J04620
22495	tactgtcccaactataagtgccatc	J04620
22496	tataagtgccatctgccgggaattg	J04620
22497	tgccatctgccgggaattggatatg	J04620
22498	ttctaactaattgctttcatctatc	X61232
22499	ctaattgctttcatctatctataga	X61232
22500	ctgcactgcaatcacatagttccat	X61232
22501	tgcaatcacatagttccatataagt	X61232
22502	cacatagttccatataagttgtcct	X61232
22503	ttagtctcttgtgctgattcactgt	X61232
22504	tcttgtgctgattcactgtataagc	X61232
22505	tataagcatgatcctggtaatgcac	X61232
22506	catgatcctggtaatgcactttgga	X61232
22507	aatgcactttggatgggaagaaaat	X61232
22508	agttcttgcgtgtactttgaagaat	X61232

SEQ ID NO:	sequence	DBAxnID
65045	tctgctccggagctctggacccaga	AA063962
65046	ctccggagctctggacccagaagca	AA063962
65047	ccggagctctggacccagaagcagc	AA063962
65048	agctctggacccagaagcagctgga	AA063962
65049	gcagttcttgctgattaaggaccag	AA063962
65050	tctccgcctggtcacatgttgcaaa	AA063962
65051	cgcctggtcacatgttgcaaaaaac	AA063962
65052	cctggtcacatgttgcaaaaaacga	AA063962
65053	gccaccctggtgcccagctatggag	AA063962
65054	tgcccagctatggagccccagcgac	AA063962
65055	cagcgactgctgcccgggtgtctct	AA063962
65056	tgtctctagagagatcgcgagagtg	AA063962
65057	gagtgctggacaccctgatgcctcg	AA063962
65058	tagatagaccacaagctccatttcc	Z11981
65059	cccatccaatgtctcttcttatggg	Z11981
65060	cacgcacgtgtgagcacacacacac	Z11981
65061	aggttgtggtcctgtcttatgacag	Z11981
65062	gttacttagatactctcacactgcc	Z11981
65063	cactgccctcatgctcactggcaag	Z11981
65064	cctcatgctcactggcaagttcatc	Z11981
65065	gctcactggcaagttcatccgtcct	Z11981
65066	ccgtcctggagctgaggcatccttc	Z11981
65067	tgaggcatccttcactgatattaaa	Z11981
65068	cctcttcaggattccaacatacatt	Z11981
65069	gttcagtagaccagcttgatccctt	Z11981
65070	ttcagatctctgccaatgcatgagg	Z11981
65071	tgtgttcttcctaacttctatcaat	Z11981
65072	tatcaatacctcttctccaatatag	Z11981
65073	tacctcttctccaatatagtctcat	Z11981
65074	ttctccaatatagtctcatggaaat	Z11981
65075	aggatgcgcaagcacacgcacgcac	Z11981
65076	cgcaagcacacgcacgcacgtgtga	Z11981
65077	cacacgcacgcacgtgtgagcacac	Z11981
65078	tcaccatgctcacctacaatttcat	X52164
65079	ctcaggagccattcattgtggggtt	X52164
65080	tcacagtgctcctcttgcctttgtc	X52164
65081	ctttgtcttctgagtgctaggagta	X52164
65082	catcccgttcacctgattttatgag	X52164
65083	gttcacctgattttatgagacaagg	X52164
65084	gttcctcactggcctggatttttgc	X52164
65085	cactggcctggatttttgctcagta	X52164
65086	cctggatttttgctcagtaggctgg	X52164
65087	ctcagtaggctgggctggctagaca	X52164
65088	ctagacaatgagcccctctgtgccc	X52164
65089	ccctatgctaggattagaggcaggc	X52164
65090	ttttgagcctggtctcactatgtag	X52164
65091	tctcactatgtagccctagtcagcc	X52164
65092	tatgtagccctagtcagcctacaac	X52164
65093	gccctagtcagcctacaacttgcta	X52164
65094	gtcagcctacaacttgctatacaga	X52164
65095	cttgctatacagaccaggttggcct	X52164
65096	atacagaccaggttggccttcaact	X52164
65097	accaggttggccttcaactcacagt	X52164
65098	gcacccctggtgtgcctgggacatc	X65026
65099	cccctggtgtgcctgggacatctgt	X65026
65100	aggcacctgggagtctcacccagag	X65026
65101	cacctgggagtctcacccagagact	X65026
65102	ggagtctcacccagagactgcagag	X65026
65103	tcacccagagactgcagagctggtg	X65026
65104	ttcagatcctgggtcctgcctaaca	X65026
65105	tcctgggtcctgcctaacagcccga	X65026
65106	ctcgcagctttgcttctgggctgag	X65026
65107	ttccctttgccaccctgattgtgaa	X65026
65108	ttgccaccctgattgtgaataaaga	X65026
65109	ccaccctgattgtgaataaagattg	X65026
65110	ctggtgtgcctgggacatctgtgaa	X65026
65111	ggacatctgtgaagcttgggcagag	X65026
65112	ttataaaacgcgcaaggcagctcga	X65026

SEQ ID NO	sequence	DBAxnID
107649	tcaagcgggccaggctggcagatgt	W40735
107650	caaggatggcctgctggatgacgag	W40735
107651	tggcctgctggatgacgaggagttt	W40735
107652	tgccctggccaaccaccttatcaag	W40735
107653	ttgttacggtccagatcatccatca	X66449
107654	ttacggtccagatcatccatcagcc	X66449
107655	gcatcctgcagcttggagccaatgg	X66449
107656	agcttggagccaatggtgagctcct	X66449
107657	atggtgagctccttctggatcccct	X66449
107658	accactcctttggcgcttcgctgtc	X66449
107659	cattggctccaagctgcaggatgct	X66449
107660	tggctccaagctgcaggatgctgaa	X66449
107661	cttccaggagtatgtcgccttcctg	X66449
107662	cttggctttgatctacaatgaagct	X66449
107663	gggcctctctcggtcaaatccagtg	X66449
107664	cctctctcggtcaaatccagtggtg	X66449
107665	tccagatcatccatcagccttgcaa	X66449
107666	agatcatccatcagccttgcaattt	X66449
107667	tcatccatcagccttgcaatttcag	X66449
107668	atcagccttgcaatttcagcatcct	X66449
107669	agccttgcaatttcagcatcctgca	X66449
107670	cttgcaatttcagcatcctgcagct	X66449
107671	atttcagcatcctgcagcttggagc	X66449
107672	tcagcatcctgcagcttggagccaa	X66449
107673	tggttacctcggactgttaagcagg	W10522
107674	ttacctcggactgttaagcaggctg	W10522
107675	atgaccccatggaggagagtgaaga	W10522
107676	agctcgagtcagtaatccagggcat	W10522
107677	ctcgagtcagtaatccagggcatca	W10522
107678	tcagtaatccagggcatcatgcaag	W10522
107679	cagtaatccagggcatcatgcaaga	W10522
107680	gtaatccagggcatcatgcaagagt	W10522
107681	taatccagggcatcatgcaagagtc	W10522
107682	atccagggcatcatgcaagagtctg	W10522
107683	tccagggcatcatgcaagagtctga	W10522
107684	gcatcatgcaagagtctgagctgat	W10522
107685	tacctcggactgttaagcaggctga	W10522
107686	ctgttaagcaggctgagatgcctga	W10522
107687	gagatgcctgatgaccccatggagg	W10522
107688	agatgcctgatgaccccatggagga	W10522
107689	atgcctgatgaccccatggaggaga	W10522
107690	tgcctgatgaccccatggaggagag	W10522
107691	cctgatgaccccatggaggagagtg	W10522
107692	ctgatgaccccatggaggagagtga	W10522
107693	tgaatcatgtctgataacggagagc	W16201
107694	ccagcacctccagttcggatgagca	W16201
107695	tcatctccatattctctggcacaga	W16201
107696	ccatattctctggcacagaaaaagg	W16201
107697	tattctctggcacagaaaaaggaag	W16201
107698	ccccatctgattttgagcacaccat	W16201
107699	attttgagcacaccatccatgttgg	W16201
107700	ttgagcacaccatccatgttggctt	W16201
107701	agcacaccatccatgttggctttga	W16201
107702	ccatccatgttggctttgatgctgt	W16201
107703	tccatgttggctttgatgctgttac	W16201
107704	atgttggctttgatgctgttacggg	W16201
107705	gcacctccagttcggatgagcagta	W16201
107706	agcagtaccatttttagcaccggag	W16201
107707	aagatcctttatcagccaatcacag	W16201
107708	atcctttatcagccaatcacagttt	W16201
107709	tatcagccaatcacagtttgaaacc	W16201
107710	cagccaatcacagtttgaaaccttt	W16201
107711	tgaaaccttgccttctgttccaga	W16201
107712	aaatcatctccatattctctggcac	W16201
107713	ccatgtcacagaccaaaacagcgaa	W10526
107714	aggttcgtgtgaccctcttcttcat	W10526
107715	aggcagcccactttggcctctggag	W10526
107716	cagcccactttggcctctggaggat	W10526

TABLE 1

SEQ ID NO	sequence	DBAxnID
22509	ctgttaatgccacttcagaagtttg	X61232
22510	atataatgctggacatcttcattct	X61232
22511	tgctggacatcttcattctacatca	X61232
22512	acatcttcattctacatcaacattc	X61232
22513	tcattctacatcaacattcgcttaa	X61232
22514	tacatcaacattcgcttaaatcatt	X61232
22515	atatagctgactgtgaccctgcact	X61232
22516	ctgactgtgaccctgcactgcaatc	X61232
22517	gtgaccctgcactgcaatcacatag	X61232
22518	attctgcagcatcctggtgccgtgt	W66636
22519	cagcatcctggtgccgtgttaactc	W66636
22520	ctgggcagcaccggaacatacatgc	W66636
22521	ggaacatacatgcctgcaacatcag	W66636
22522	tacatgcctgcaacatcagccatgc	W66636
22523	cctgcaacatcagccatgcaaggag	W66636
22524	caaggagcctacttgccacagtata	W66636
22525	gcctacttgccacagtatacacaca	W66636
22526	ttgccacagtatacacacatgcaga	W66636
22527	cagtatacacacatgcagaccgcgg	W66636
22528	acgtctaatgaccattctccatata	W66636
22529	aatgaccattctccatataccтttc	W66636
22530	ccctcaatggaacataccatgtcac	W66636
22531	atggaacataccatgtcactacaac	W66636
22532	atgtcactacaacctgcttccatga	W66636
22533	cctgcttccatgatcagccctctgg	W66636
22534	tccatgatcagccctctggctcagc	W66636
22535	atcagccctctggctcagcagatga	W66636
22536	agtcatctgtcactgggcagcaccg	W66636
22537	ctgtcactgggcagcaccggaacat	W66636
22538	tactcgctgatggagaacggaaaca	L39123
22539	actcgctgatggagaacggaaacat	L39123
22540	tctaatggcatcgacatcgaaaaaa	L39123
22541	acagatcaagcgaactgcccggact	L39123
22542	cacaccaggttatttctttgctttg	L39123
22543	ctttgctttgcgttccctggctcca	L39123
22544	gcctcgtaaggaccaagcaaccatg	L39123
22545	taaggaccaagcaaccatggcaggc	L39123
22546	ggaccaagcaaccatggcaggcact	L39123
22547	gaccaagcaaccatggcaggcacta	L39123
22548	actgtcaccttgctagcccaataat	L39123
22549	tgtcaccttgctagcccaataataa	L39123
22550	tgagtcctgatggaaccatgaacca	L39123
22551	ccaaacagagcaacgtctcagagcc	L39123
22552	gaagtccagttcttcccgttgatgc	L39123
22553	tccagttcttcccgttgatgccacc	L39123
22554	cagttcttcccgttgatgccaccgg	L39123
22555	ttcttcccgttgatgccaccggcac	L39123
22556	gcaccctactggatcctggccactg	L39123
22557	caccctactggatcctggccactga	L39123
22558	tcccgtgtgccattcatcaagattc	W66663
22559	cgtgtgccattcatcaagattcgta	W66663
22560	cagcgacttcgaccacgatgaatgt	W66663
22561	atgtcagtgtcctagctcctgcatc	W66663
22562	tcagtgtcctagctcctgcatcttc	W66663
22563	gtgtcctagctcctgcatcttcgtc	W66663
22564	tagctcctgcatcttcgtcattgac	W66663
22565	cacggccatgcagatcaagactatg	W66663
22566	gaacaagcatacgttctctggagga	W66663
22567	caagcatacgttctctggaggaagt	W66663
22568	tgagtcacacaatcagtttgccggc	W66663
22569	gtcacacaatcagtttgccggcaca	W66663
22570	gtgccattcatcaagattcgtactt	W66663
22571	caatcagtttgccggcacatgtgat	W66663
22572	ttcatcaagattcgtacttcagaat	W66663
22573	ggtcatcctagatattctctgctat	W66663
22574	catcctagatattctctgctatgct	W66663
22575	agatattctctgctatgctcgtact	W66663
22576	tattctctgctatgctcgtacttct	W66663

SEQ ID NO	sequence	DBAxnID
65113	agcagccaatagcctacttcgcctg	X65026
65114	caatagcctacttcgcctggcagtg	X65026
65115	tcgcctggcagtggatggccgcctc	X65026
65116	tggccgcctcagcctatgtttctac	X65026
65117	tcctggctacagcgaacagagaggc	X65026
65118	ccaagggactcatccaccaggagca	AA061930
65119	ggactcatccaccaggagcaggcac	AA061930
65120	atgtttggtcctgtgggcattgagg	AA061930
65121	tgtttggtcctgtgggcattgaggc	AA061930
65122	cctgtgggcattgaggctgtgctag	AA061930
65123	gctgtgctagaccagctgaggatca	AA061930
65124	ctgtgctagaccagctgaggatcaa	AA061930
65125	tgctagaccagctgaggatcaaggc	AA061930
65126	ctagaccagctgaggatcaaggcta	AA061930
65127	tagaccagctgaggatcaaggctat	AA061930
65128	ggctaggcaagtccaccatggtgaa	AA061930
65129	tccaccatggtgaacacactgttca	AA061930
65130	gactcatccaccaggagcaggcacc	AA061930
65131	tcatccaccaggagcaggcaccact	AA061930
65132	atccaccaggagcaggcaccactgc	AA061930
65133	tccaccaggagcaggcaccactgca	AA061930
65134	cacccttggccccatggatgagagg	AA061930
65135	acccttggccccatggatgagaggc	AA061930
65136	cttggccccatggatgagaggcggt	AA061930
65137	ccacccaatgagatgtttggtcctg	AA061930
65138	accaggatgccacggctgatgagca	AA097292
65139	ccaggatgccacggctgatgagcag	AA097292
65140	ttgtgctgggtctctggtgctcttc	AA097292
65141	tgctgggtctctggtgctcttcact	AA097292
65142	gctgggtctctggtgctcttcactg	AA097292
65143	tgggtctctggtgctcttcactgtt	AA097292
65144	gggtctctggtgctcttcactgttg	AA097292
65145	ggtctctggtgctcttcactgttgc	AA097292
65146	tctctggtgctcttcactgttgcct	AA097292
65147	tggtgctcttcactgttgcctgtca	AA097292
65148	ggtgctcttcactgttgcctgtcac	AA097292
65149	ctcttcactgttgcctgtcactttt	AA097292
65150	gcttgagttccccaggccaagcagg	AA097292
65151	cttgagttccccaggccaagcaggt	AA097292
65152	ttgagttccccaggccaagcaggtt	AA097292
65153	gagttccccaggccaagcaggttag	AA097292
65154	caggccaagcaggttagggaaagct	AA097292
65155	ataccttggcagttgaaggaaggag	AA097292
65156	taccttggcagttgaaggaaggaga	AA097292
65157	atggtcttaggtttgtgctgggtct	AA097292
65158	cactgttgatgctaccctggaccag	X80169
65159	taccctggaccagtggctacaagct	X80169
65160	caggttccgacacctgaagatgccc	X80169
65161	ggtcatgtgaccacctctgccgagg	X80169
65162	ccaccctagaaatgactgcggcaca	X80169
65163	tgactgcggcacagaatcctgatgg	X80169
65164	agaatcctgatggcagcaaagtgaa	X80169
65165	gtaaccaatggaactcagttgcata	X80169
65166	ttgcatacgcctcactgtgcttaaa	X80169
65167	acgcctcactgtgcttaaaattcat	X80169
65168	taacgctggtgctgtccacgtgtca	X80169
65169	tgtccacgtgtcatatgatgtataa	X80169
65170	ggaccagtggctacaagctggcggt	X80169
65171	ctacctcagtgggcagcctgttgag	X80169
65172	cagtgggcagcctgttgagaagtct	X80169
65173	gctggcctgcttccttgtctaccac	X80169
65174	ctgcttccttgtctaccactctgtg	X80169
65175	ctctgtgccagcaccacgcacttg	X80169
65176	ctttgctgaactcctctacaggttc	X80169
65177	tgaactcctctacaggttccgacac	X80169
65178	gcaagaccagcctggccctccggta	X70804
65179	tggccctccggtacatgaagcagga	X70804
65180	ccaatgctgcgctcctggtttatga	X70804

SEQ ID NO	sequence	DBAxnID
107717	cccactttggcctctggaggatctg	W10526
107718	ggatctgcaccgctcgggttgccgt	W10526
107719	gggttgccgtgcacaacaaagacaa	W10526
107720	gttgtgagcacgtcacaccatcagg	W10526
107721	agcacgtcacaccatcaggggaaaa	W10526
107722	tcacaccatcaggggaaaagaactg	W10526
107723	agaactgctcctacttcaggcactt	W10526
107724	actgctcctacttcaggcacttcaa	W10526
107725	ttcgtgtgaccctcttcttcatcct	W10526
107726	tggtgactgaccactgggccgtgct	W10526
107727	ctgaccactgggccgtgctgagtcc	W10526
107728	ccgtgctgagtccacacctggagca	W10526
107729	tgagtccacacctggagcaccacaa	W10526
107730	cacacctggagcaccacaatgaaac	W10526
107731	agcaccacaatgaaacgtgcgaggc	W10526
107732	aaacgtgcgaggcagcccactttgg	W10526
107733	tatccagtgaccacttcctgttcac	J05479
107734	ccagtgaccacttcctgttcacttt	J05479
107735	tcctactgcactggggacttttaga	J05479
107736	tactgcactggggacttttagatag	J05479
107737	gcctttattctgttactggacacga	J05479
107738	tactctattgtacctttacagtcgc	J05479
107739	tctattgtacctttacagtcgcagc	J05479
107740	attgtacctttacagtcgcagcact	J05479
107741	cctttacagtcgcagcactaaaatg	J05479
107742	ttacagtcgcagcactaaaatggaa	J05479
107743	cagtcgcagcactaaaatggaagac	J05479
107744	gttttgctactcctgtcagacaatg	J05479
107745	ctgcatctcagcagttggatgttct	J05479
107746	tgtttgctctgggggccaggaattg	J05479
107747	ttgctctgggggccaggaattggat	J05479
107748	agctaatgctagctatactgcaatg	J05479
107749	tagctatactgcaatgttaggggaa	J05479
107750	ctatactgcaatgttaggggaatga	J05479
107751	atgaacgcgttttcctactgcactg	J05479
107752	gcgttttcctactgcactggggact	J05479
107753	gctgtgttcaatgtccttgaccaga	AA162302
107754	ttcaatgtccttgaccagaatggtg	AA162302
107755	gtgcgcctccacgttgaaaattgag	AA162302
107756	cgcctccacgttgaaaattgagact	AA162302
107757	aattgagactgctggtcacaagctc	AA162302
107758	tggtcacaagctccaactcgtcgtc	AA162302
107759	tcacaagctccaactcgtcgtctat	AA162302
107760	caagctccaactcgtcgtctatctg	AA162302
107761	ccaactcgtcgtctatctgcctgtc	AA162302
107762	cgtctatctgcctgtctctgacaga	AA162302
107763	cttgcttgcggactctgcttttgtg	AA162302
107764	gcttgcggactctgcttttgtggtg	AA162302
107765	aatgtccttgaccagaatggtgatg	AA162302
107766	gtccttgaccagaatggtgatggct	AA162302
107767	gatggctacatcactgtggatgagc	AA162302
107768	tacatcactgtggatgagctcaagg	AA162302
107769	gaaagcttgtccaagttaggcgagt	AA162302
107770	gagtccctttcccaggaggagctgg	AA162302
107771	atgatccgtgtggctgacgtggacc	AA162302
107772	tttgtgcgcctccacgttgaaaatt	AA162302
107773	aattcacagggttctcaaggtgatc	L20343
107774	gcttcccaagctgaagaagaacctt	L20343
107775	aatggccacagacacagggagtctc	L20343
107776	cacagacacagggagtctcgccacc	L20343
107777	cgccaccgctctagggacatgggtc	L20343
107778	cgctctagggacatgggtcgagacc	L20343
107779	cgagaccaggaccacaatgagtgca	L20343
107780	atcaaacaacgaagccggcataaat	L20343
107781	gtatacatccgccaatgaccgtgcg	L20343
107782	atccgccaatgaccgtgcgtgtccc	L20343
107783	cccaagtctttgtgtatcatcctta	L20343
107784	tgtatcatccttaagcaaaatcttt	L20343

TABLE 1

SEQ ID NO	sequence	DBAxnID
22577	tctctgctatgctcgtacttcttcc	W66663
22578	gttcagcgacttcgaccacgatgaa	W66663
22579	acaactcagattgggctgcgcttca	Z49086
22580	cagattgggctgcgcttcagtaatg	Z49086
22581	gtacctccagtttgcacagggactt	Z49086
22582	cctccagtttgcacagggacttgat	Z49086
22583	ccagtttgcacagggacttgatggg	Z49086
22584	gccctgcctaccctttggtgctgtca	Z49086
22585	ctgcctaccctttggtgctgtcataa	Z49086
22586	gaagcagcctgtgcctcccagagac	Z49086
22587	gcctcccagagactgactcagagag	Z49086
22588	tgtgttgtgcacatgcttgcctgca	Z49086
22589	gtgtacaagcttggccctgtgccct	Z49086
22590	cttggccctgtgccctgtagtgggg	Z49086
22591	attgggctgcgcttcagtaatggac	Z49086
22592	gggctgcgcttcagtaatggacgtc	Z49086
22593	ttcagtaatggacgtcctggtaggg	Z49086
22594	taagcctgggttcttcaggccccag	Z49086
22595	ccatcctgaagccagctggtacctc	Z49086
22596	tgaagccagctggtacctccagttt	Z49086
22597	agccagctggtacctccagtttgca	Z49086
22598	cagctggtacctccagtttgcacag	Z49086
22599	aaggcatgaaccatccttcagttta	U16805
22600	gcatgaaccatccttcagtttactg	U16805
22601	tctaggcaacaggccttgtggagtt	U16805
22602	caggccttgtggagttcttttcata	U16805
22603	tcttttcataccacttttggagctt	U16805
22604	acttttggagcttgactgtccacaa	U16805
22605	gcttgactgtccacaaacacatacc	U16805
22606	acccttagcaccttaattctgcag	U16805
22607	cttaattctgcaggatcttatgcca	U16805
22608	ggatcttatgccacacatagcaacc	U16805
22609	tatgccacacatagcaacccagaac	U16805
22610	agcaacccagaacaagtttacatga	U16805
22611	tgaaccatccttcagtttactgaga	U16805
22612	atccttcagtttactgagatgaagg	U16805
22613	taccaaacatacctcaaatactgcg	U16805
22614	caaacatacctcaaatactgcgttt	U16805
22615	ctcaaatactgcgttttgtcaagga	U16805
22616	tactgcgttttgtcaaggaaagagt	U16805
22617	ctcctccaggaggcaatacacaaaa	U16805
22618	atacacaaaatccagaaagtcactc	U16805
22619	gaagaaccacctgatgtacgctgtg	AA097366
22620	cctgatgtacgctgtgagagaggag	AA097366
22621	gtcccggctgagccctgaagagcca	AA097366
22622	gctgagccctgaagagccagcacct	AA097366
22623	gagccctgaagagccagcacctgaa	AA097366
22624	ccctgaagagccagcacctgaagcc	AA097366
22625	agagccagcacctgaagccccagaa	AA097366
22626	gtaagtggctctgtccttagggtgg	AA097366
22627	ggcagagccacatcttgttctacct	AA097366
22628	agagccacatcttgttctacctagt	AA097366
22629	gccacatcttgttctacctagttct	AA097366
22630	cacatcttgttctacctagttcttt	AA097366
22631	gcagattcgtgagctgcttgagaag	AA097366
22632	gattcgtgagctgcttgagaagaac	AA097366
22633	tcgtgagctgcttgagaagaactcc	AA097366
22634	tgagaagaactcccagctggagcgc	AA097366
22635	ctcccagctggagcgcgagaacacc	AA097366
22636	gctggcaagccccgagcaactggaa	AA097366
22637	ggcaagccccgagcaactggaaaag	AA097366
22638	ccagtcccggctgagccctgaagag	AA097366
22639	ccaccatcctatgaaagcgtcacca	Y09108
22640	tcctatgaaagcgtcaccaggggcc	Y09108
22641	ttccttctagagatggcaccaacct	Y09108
22642	ctccaccgatgcatgtcactggtca	Y09108
22643	cgatgcatgtcactggtcatggtgt	Y09108
22644	atgtcactggtcatggtgtcagagc	Y09108

SEQ ID NO:	sequence	DBAxnID
65181	acatcactcggaaggattcctttca	X70804
65182	aggattcctttcacaaggcccagca	X70804
65183	cctttcacaaggcccagcagtggct	X70804
65184	ccaagctgaactaccaggtgtctga	X70804
65185	agatcttcaacactgttgctcagga	X70804
65186	tcaacactgttgctcaggagcttct	X70804
65187	agcttctgcagagagcaggagacac	X70804
65188	ctctgaaccaggaacctcccatcag	X70804
65189	aacctcccatcaggcagcgccagtg	X70804
65190	acttcagcaacgtcttgccgactgt	X70804
65191	gtgccttcttcacaaaggtgctgga	X70804
65192	tgctggacttgggctcctcatctct	X70804
65193	acttgggctcctcatctctgaagct	X70804
65194	gctcctcatctctgaagcttgagat	X70804
65195	catctctgaagcttgagatctggga	X70804
65196	agtaccaaagcgtctgccacctcta	X70804
65197	acctctacttcaggggtgccaatgc	X70804
65198	ggtctccacatgccttcacaaacat	AA061989
65199	tctccacatgccttcacaaacatga	AA061989
65200	catgaacgagctcatgctgaaaaga	AA061989
65201	tagaactgaagcccatatagatctt	AA061989
65202	gaactgaagcccatatagatctttg	AA061989
65203	actgaagcccatatagatctttgat	AA061989
65204	tgaagcccatatagatctttgatca	AA061989
65205	aagcccatatagatctttgatcaac	AA061989
65206	agatctttgatcaactgtcaggaaa	AA061989
65207	atctttgatcaactgtcaggaaaag	AA061989
65208	ctttgatcaactgtcaggaaaagtg	AA061989
65209	gataaaagcacttgccctaagcttg	AA061989
65210	tccacatgccttcacaaacatgaac	AA061989
65211	cacatgccttcacaaacatgaacga	AA061989
65212	catgccttcacaaacatgaacgagc	AA061989
65213	tgccttcacaaacatgaacgagctc	AA061989
65214	ttcacaaacatgaacgagctcatgc	AA061989
65215	cacaaacatgaacgagctcatgctg	AA061989
65216	caaacatgaacgagctcatgctgaa	AA061989
65217	aacatgaacgagctcatgctgaaaa	AA061989
65218	tagaagatgcccgtcagcattccaa	X95403
65219	atgcccgtcagcattccaattccaa	X95403
65220	acgctgctaccaacgcatctcatgg	X95403
65221	ctaccaacgcatctcatggaagcaa	X95403
65222	acgcatctcatggaagcaaccaagg	X95403
65223	accggctagctgcccagtggagcca	X95403
65224	cccagtggagccacgcactctgtca	X95403
65225	tttcctcatgctcagctgagacatg	X95403
65226	catgctcagctgagacatgaaacta	X95403
65227	atggctttatgtcacaggagacttt	X95403
65228	ttatgtcacaggagactttaatcct	X95403
65229	taatccttcagattcttgtataact	X95403
65230	gtcagcattccaattccaacatggt	X95403
65231	attccaattccaacatggtcatcat	X95403
65232	aagctttgcacgagagcatggact	X95403
65233	atggacttatcttcatggaaacttc	X95403
65234	ttatcttcatggaaacttctgccaa	X95403
65235	tcatggaaacttctgccaagactgc	X95403
65236	agactgcgtctaatgtagaggaggc	X95403
65237	ttaaaattggccctcagcacgctgc	X95403
65238	cgcagcatctccaagacagcggtca	AA062013
65239	agcatctccaagacagcggtcacac	AA062013
65240	gacagcggtcacaccatcgagaggg	AA062013
65241	acagcggtcacaccatcgagagggt	AA062013
65242	cagcggtcacaccatcgagagggtc	AA062013
65243	agcggtcacaccatcgagagggtca	AA062013
65244	gcggtcacaccatcgagagggtcaa	AA062013
65245	cggtcacaccatcgagagggtcaag	AA062013
65246	ggtcacaccatcgagagggtcaagc	AA062013
65247	gtcacaccatcgagagggtcaagct	AA062013
65248	tcacaccatcgagagggtcaagctg	AA062013

SEQ ID NO	sequence	DBAxnID
107785	ggcctctctaggcaagagacgtttg	L20343
107786	gactctgaaacccaagagagccgag	L20343
107787	gaaacccaagagagccgagactctg	L20343
107788	agccgagactctgcctacgtggagc	L20343
107789	gactctgcctacgtggagccaaagg	L20343
107790	tattcacatgaacatgtggaccggt	L20343
107791	acccacagcagcaatggccacagac	L20343
107792	agcagcaatggccacagacacaggg	L20343
107793	tgactctgtatctatgcaaagagct	AA008136
107794	tatgcaaagagctctttgtggtcct	AA008136
107795	ccttcaaagcctctcacatctaggc	AA008136
107796	tcaaagcctctcacatctaggccaa	AA008136
107797	aagcctctcacatctaggccaaagc	AA008136
107798	ctcacatctaggccaaagccccatg	AA008136
107799	acatctaggccaaagccccatgtgc	AA008136
107800	tctaggccaaagccccatgtgcctt	AA008136
107801	aggccaaagccccatgtgccttgtc	AA008136
107802	ccaaagccccatgtgccttgtccag	AA008136
107803	aagccccatgtgccttgtccaggaa	AA008136
107804	ccccatgtgccttgtccaggaaccg	AA008136
107805	gctaggcaggcctctctttctcagt	AA008136
107806	cttggcaatcagcatttctggtctg	AA008136
107807	ggcaatcagcatttctggtctgcta	AA008136
107808	cagcatttctggtctgctaaatata	AA008136
107809	tatatacgctgtgctgtgggttctt	AA008136
107810	aacggactcctgtgccccagagata	AA008136
107811	cccagagatacctttcctatcccagg	AA008136
107812	gaggccccttcaaagcctctcacat	AA008136
107813	tgtgttgcttctttctctcctaaag	J03880
107814	ttctctcctaaagcaaacctctgcc	J03880
107815	ggcccaagagatgccactggggact	J03880
107816	ttctcaccctggtgtcacatgctgt	J03880
107817	ccctggtgtcacatgctgtgccttt	J03880
107818	tgtcacatgctgtgcctttctcttt	J03880
107819	gctgttccagacctgtgatactgtg	J03880
107820	atatcccatgtgtacaaatgtgttt	J03880
107821	ctctgaccttggcattcagaacaga	J03880
107822	cattcagaacagacatctgtatttt	J03880
107823	acatctgtatttttgcctttgaaat	J03880
107824	gtatttttgcctttgaaatgcagta	J03880
107825	gcaaacctctgccttttctctatgc	J03880
107826	ctctgccttttctctatgctgttcg	J03880
107827	tacgtggttcattctcaggaccata	J03880
107828	gttcattctcaggaccatagggaaa	J03880
107829	ctaaggcaccgttaggcttggcatt	J03880
107830	caccgttaggcttggcattagcctg	J03880
107831	taggcttggcattagcctggcccaa	J03880
107832	tggcattagcctggcccaagagatg	J03880
107833	acagtaatcttccgaagcataaaag	
107834	cagtaatcttccgaagcataaaaga	
107835	aacacagtactcttcgaaagcataa	
107836	acacagtactcttcgaaagcataag	
107837	gtactcttcgaaagcataagagaac	
107838	ttcggaacccagcagtctccaaatg	
107839	tcggaacccagcagtctccaaatgc	
107840	cggaacccagcagtctccaaatgca	
107841	ggaacccagcagtctccaaatgcat	
107842	gaacccagcagtctccaaatgcata	
107843	acagtaatcttccgaagcataaaag	
107844	cagtaatcttccgaagcataaaaga	
107845	gaacccagcagtctccaaatgcata	
107846	aacacagtactcttcgaaagcataa	
107847	acacagtactcttcgaaagcataag	
107848	gtactcttcgaaagcataagagaac	
107849	tttcggaacccagcagtctccaaat	
107850	ttcggaacccagcagtctccaaatg	
107851	tcggaacccagcagtctccaaatgc	
107852	cggaacccagcagtctccaaatgca	

TABLE 1

SEQ ID NO	sequence	DBAxnID
22645	cttctgaactttcagaagatgacat	Y09108
22646	atgacatcgctttgtgttgtttgtg	Y09108
22647	gatttaccaacttctcagaaccagg	Y09108
22648	tctcagaaccaggacttccagagac	Y09108
22649	gacttccagagacacatggcaagga	Y09108
22650	cagttgccggacaatacctgagggt	Y09108
22651	gaaagcgtcaccaggggcctgagtg	Y09108
22652	gccaacattaacacatctagctcaa	Y09108
22653	attaacacatctagctcaatgcaaa	Y09108
22654	acatctagctcaatgcaaaatgaag	Y09108
22655	cctggacctcagtgaagacactcca	Y09108
22656	ttctggtgtgctgacctttttccttc	Y09108
22657	tgtgctgacctttttccttctagaga	Y09108
22658	gacctttttccttctagagatggcac	Y09108
22659	gcgtaacttgtctaaaccattgatt	W66760
22660	cttgtctaaaccattgattggtact	W66760
22661	gaccttcagcaggttggctagtctg	W66760
22662	ccttcagcaggttggctagtctgtc	W66760
22663	ttcagcaggttggctagtctgtctg	W66760
22664	gtctgtctgaaacactgcgattgac	W66760
22665	agattcctgtgcctgaggtaatacа	W66760
22666	tcctgtgcctgaggtaatacacagc	W66760
22667	ggtaatacacagcctggtggaccag	W66760
22668	taatacacagcctggtggaccagag	W66760
22669	atacacagcctggtggaccagagga	W66760
22670	acagcctggtggaccagaggaaagg	W66760
22671	tgtctaaaccattgattggtacttg	W66760
22672	ccattgattggtacttgtggaggct	W66760
22673	tgattggtacttgtggaggctgccc	W66760
22674	ggaggctgcccaaaacagaggcaat	W66760
22675	aggctgcccaaaacagaggcaattg	W66760
22676	gctgcccaaaacagaggcaattgga	W66760
22677	gaatgagaccttcagcaggttggct	W66760
22678	gagaccttcagcaggttggctagtc	W66760
22679	tcgacccatagatcccgaatgggtt	W66776
22680	catagatcccgaatgggttacaacg	W66776
22681	gtcctccacgcggtagcgaatactg	W66776
22682	tcctccacgcggtagcgaatactgg	W66776
22683	cctccacgcggtagcgaatactggt	W66776
22684	ctccacgcggtagcgaatactggta	W66776
22685	tccacgcggtagcgaatactggtac	W66776
22686	ccacgcggtagcgaatactggtact	W66776
22687	cacgcggtagcgaatactggtactt	W66776
22688	gtgagacccagcgcacactcagctg	W66776
22689	tgagacccagcgcacactcagctgg	W66776
22690	gagacccagcgcacactcagctggt	W66776
22691	tagatcccgaatgggttacaacgca	W66776
22692	tgggttacaacgcacttggacgaag	W66776
22693	aggtctggttgctgacgtcatccac	W66776
22694	ggtctggttgctgacgtcatccacc	W66776
22695	tctggttgctgacgtcatccaccac	W66776
22696	gtccacgctgtcctccacgcggtag	W66776
22697	ctgtcctccacgcggtagcgaatac	W66776
22698	tgtcctccacgcggtagcgaatact	W66776
22699	tgactatgctgaccaaagccatggc	D26123
22700	tgctgaccaaagccatggccatgga	D26123
22701	gctacctggcctcctagtctgctca	D26123
22702	tggcctcctagtctgctcagttgcc	D26123
22703	cctagtctgctcagttgccgcggac	D26123
22704	ctgctcagttgccgcggacatctga	D26123
22705	agttgccgcggacatctgagtggcc	D26123
22706	agcatttactgatctcgtgactccg	D26123
22707	catgttactgtcgatcccacaacca	D26123
22708	ggcgcagaccttgttctctttgtcc	D26123
22709	gaccttgttctctttgtccactttg	D26123
22710	cactttgttgggctcatttgcctaa	D26123
22711	accccactgtggtgctgactgacat	D26123
22712	ttgggctcatttgcctaaataaacg	D26123

SEQ ID NO:	sequence	DBAxnID
65249	cacaccatcgagagggtcaagctgc	AA062013
65250	atctccaagacagcggtcacaccat	AA062013
65251	tctccaagacagcggtcacaccatc	AA062013
65252	ctccaagacagcggtcacaccatcg	AA062013
65253	tccaagacagcggtcacaccatcga	AA062013
65254	ccaagacagcggtcacaccatcgag	AA062013
65255	caagacagcggtcacaccatcgaga	AA062013
65256	aagacagcggtcacaccatcgagag	AA062013
65257	agacagcggtcacaccatcgagagg	AA062013
65258	tttctaccacagacagggaatcttt	Z22821
65259	ctaccacagacagggaatcttttga	Z22821
65260	tctttaatgcatcggtcggaagtca	Z22821
65261	ttaatgcatcggtcggaagtcactt	Z22821
65262	tcggaagtcacttgggccagaattc	Z22821
65263	gtcacttgggccagaattcaagttc	Z22821
65264	tcatcaaccttagacctaacaaaca	Z22821
65265	agagaaccagaaaccctttcagcag	Z22821
65266	gaaccagaaaccctttcagcagctg	Z22821
65267	gaaaccctttcagcagctgtagtgt	Z22821
65268	acccttcagcagctgtagtgtacc	Z22821
65269	ctttcagcagctgtagtgtacccta	Z22821
65270	cttttgaagcgatttccagctggag	Z22821
65271	aagcgatttccagctggagagaaaa	Z22821
65272	atataccaaccgcactggtgcaaaa	Z22821
65273	taccaaccgcactggtgcaaaacaa	Z22821
65274	acaagatcgatctgctggatgattc	Z22821
65275	atccagaacagacacactcaagtag	Z22821
65276	cagaacagacacactcaagtagtaa	Z22821
65277	cacactcaagtagtaacaagattgg	Z22821
65278	ccacttagtgacagcagtgaggctc	AA061913
65279	cgcgagctccttcattgtcaaggag	AA061913
65280	tcaagtatctttgatctccaaagac	AA061913
65281	atctttgatctccaaagacacagag	AA061913
65282	tttgatctccaaagacacagagcca	AA061913
65283	agacacagagccaagtaggattaaa	AA061913
65284	gttgtaccatctgtggtcataaatt	AA061913
65285	gtaccatctgtggtcataaatttct	AA061913
65286	ttcttcgaaagagccagttactgga	AA061913
65287	gccagttactggaacacatgtatac	AA061913
65288	aacacatgtatacacacaatgggta	AA061913
65289	acatgtatacacacaatgggtaaat	AA061913
65290	tgagcagcagcagccatcacctgag	AA061913
65291	gcagcagcagccatcacctgagcac	AA061913
65292	gcagccatcacctgagcactcgagc	AA061913
65293	gccatcacctgagcactcgagccga	AA061913
65294	atcacctgagcactcgagccgaggc	AA061913
65295	ctcgagccgaggcacctcagagcct	AA061913
65296	ccgaggcacctcagagcctttgcag	AA061913
65297	cacctcagagcctttgcagattagt	AA061913
65298	gcgactacagtacgctgcttgtgtg	AA061915
65299	actacagtacgctgcttgtgtggcc	AA061915
65300	tgaccaggtgctacatcaactatta	AA061915
65301	acatcaactattacgacatgagacg	AA061915
65302	tcaactattacgacatgagacgctg	AA061915
65303	attacgacatgagacgctgccaatg	AA061915
65304	acgacatgagacgctgccaatgttg	AA061915
65305	acatgagacgctgccaatgttgggg	AA061915
65306	tgagacgctgccaatgttggggctt	AA061915
65307	gacgctgccaatgttggggcttgaa	AA061915
65308	gctgccaatgttggggcttgaacgg	AA061915
65309	cttgagtccttgccccattacctgc	AA061915
65310	acagtacgctgcttgtgtggcctgc	AA061915
65311	gtacgctgcttgtgtggcctgctgt	AA061915
65312	tgcttgtgtggcctgctgtccgatc	AA061915
65313	ctgcacatcagcccgtgaccaggtg	AA061915
65314	cacatcagcccgtgaccaggtgcta	AA061915
65315	atcagcccgtgaccaggtgctacat	AA061915
65316	agcccgtgaccaggtgctacatcaa	AA061915

SEQ ID NO	sequence	DBAxnID
107853	ggaacccagcagtctccaaatgcat	
107854	acagtaatcttccgaagcataaaag	
107855	cagtaatcttccgaagcataaaaga	
107856	gaacccagcagtctccaaatgcata	
107857	aacacagtactcttcgaaagcataa	
107858	acacagtactcttcgaaagcataag	
107859	gtactcttcgaaagcataagagaac	
107860	tttcggaacccagcagtctccaaat	
107861	ttcggaacccagcagtctccaaatg	
107862	tcggaacccagcagtctccaaatgc	
107863	cggaacccagcagtctccaaatgca	
107864	ggaacccagcagtctccaaatgcat	
107865	aggactgctgcgcttcggggcccag	M16465
107866	ggtttcgacagactcttcaaaatgc	M16465
107867	gatcctctggctgtggacaaaataa	M16465
107868	atgaaggacctggaccagtgccgag	M16465
107869	gggctcaccattgcatgcaatgact	M16465
107870	caccacggggtcacttgaggaatct	M16465
107871	gagcagatcaggacccttaggaaat	M16465
107872	atcaggacccttaggaaatgtgcaa	M16465
107873	aatgagatccaactccaattcaaca	M16465
107874	atccaactccaattcaacaatctga	M16465
107875	gtttgcatcccattgccctcaataa	M16465
107876	atcccattgccctcaataaagaaag	M16465
107877	gacagactcttcaaaatgccatccc	M16465
107878	ctcttcaaaatgccatcccaaatgg	M16465
107879	ccatcccaaatggagcacgccatgg	M16465
107880	gagcacgccatggaaaccatgatgc	M16465
107881	atgatgcttacgtttcacaggtttg	M16465
107882	cttacgtttcacaggtttgcaggcg	M16465
107883	tttcacaggtttgcaggcgacaaag	M16465
107884	gacaaagaccacttgacaaaggagg	M16465
107885	acacatcttgaactagacctcggag	X58995
107886	catcttgaactagacctcggagagg	X58995
107887	aggtttctccaggctgttagagtgt	X58995
107888	agagtgtcagcacttcagcaggtca	X58995
107889	cttcagcaggtcaagcacaaacctc	X58995
107890	aagcacaaacctctgacagcttttg	X58995
107891	gacaggcagctgactaggagggcat	X58995
107892	agggcatcatctgacgagggtgatt	X58995
107893	tcatctgacgagggtgattcttttc	X58995
107894	cctgttgacttccattcacagtgtt	X58995
107895	gttgacttccattcacagtgtttat	X58995
107896	gacttccattcacagtgtttatgct	X58995
107897	tagcatgattttcttcttagaataa	X58995
107898	ataatttgttctgacgcgtcagtca	X58995
107899	tgttctgacgcgtcagtcacactgg	X58995
107900	gacgcgtcagtcacactggaactga	X58995
107901	tcagtcacactggaactgacgttct	X58995
107902	gtcacactggaactgacgttctatc	X58995
107903	ctgacgttctatcagaggtttctcc	X58995
107904	cagaggtttctccaggctgttagag	X58995
107905	cgcccgcaacgcgagcatgaacaac	W10606
107906	cccgcaacgcgagcatgaacaacgc	W10606
107907	aagacaatggcaggctcggcgttgg	W10606
107908	agacaatggcaggctcggcgttggc	W10606
107909	acaatggcaggctcggcgttggcag	W10606
107910	caatggcaggctcggcgttggcagt	W10606
107911	gatacgggcgctggctccatctgag	W10606
107912	gctgccctgaggaaacaccatgaag	W10606
107913	atgagattgaccaccattcgaagga	W10606
107914	gagattgaccaccattcgaaggaga	W10606
107915	agattgaccaccattcgaaggagat	W10606
107916	attgaccaccattcgaaggagatag	W10606
107917	ccgcaacgcgagcatgaacaacgcc	W10606
107918	ttgaccaccattcgaaggagataga	W10606
107919	cgagcatgaacaacgccgaagacaa	W10606
107920	gcatgaacaacgccgaagacaatgg	W10606

TABLE 1

SEQ ID NO	sequence	DBAxnID
22713	ctgtggtgctgactgacatgggcaa	D26123
22714	tctctgcagaccctgagtttgccag	D26123
22715	cagaccctgagtttgccaggaagct	D26123
22716	ttgccaggaagctcaaggagcgcca	D26123
22717	acgtcgtcaacagcatcctcttcct	D26123
22718	tcaacagcatcctcttcctgctcag	D26123
22719	gcatcctggtggatgctggctacct	D26123
22720	ccaagctggccgtgctcatcaccaa	W66781
22721	caagctggccgtgctcatcaccaac	W66781
22722	cggttcgtcggcgacagtgtgaaga	W66781
22723	ggttcgtcggcgacagtgtgaagaa	W66781
22724	ttcgtcggcgacagtgtgaagaagt	W66781
22725	agaagtggcccaggccctggcaagg	W66781
22726	ggagactacaaggcctttggcgtct	W66781
22727	agactacaaggcctttggcgtctca	W66781
22728	gactacaaggcctttggcgtctcat	W66781
22729	tacaaggcctttggcgtctcatggt	W66781
22730	aaggcctttggcgtctcatggtgga	W66781
22731	ggcctttggcgtctcatggtggaga	W66781
22732	tggccgtgctcatcaccaactccaa	W66781
22733	ggccgtgctcatcaccaactccaat	W66781
22734	ccgtgctcatcaccaactccaatgt	W66781
22735	cgtgctcatcaccaactccaatgtc	W66781
22736	tgctcatcaccaactccaatgtccg	W66781
22737	actccaatgtccgccattccctggg	W66781
22738	atgtccgccattccctgggctccag	W66781
22739	tgggctccagcgagtacccggttcg	W66781
22740	ctgtgtccctcatacgacacgtcct	D50621
22741	tcatacgacacgtcctaagcgggaa	D50621
22742	gcaagcccggaaagccttcgacagg	D50621
22743	cttcgacagggccacgaagctggag	D50621
22744	ggagtgcttctcagccatcgtagag	D50621
22745	gtgcttctcagccatcgtagagggc	D50621
22746	ctcagccatcgtagagggcgacagc	D50621
22747	acgtgtcatcgaagacctctcaggc	D50621
22748	tgtcatcgaagacctctcaggcccc	D50621
22749	gagactctgattcctgccctggctt	D50621
22750	ctgattcctgccctggcttggcctg	D50621
22751	cccttggtctggactgaatagccca	D50621
22752	tacgacacgtcctaagcgggaatat	D50621
22753	gacacgtcctaagcgggaatatgag	D50621
22754	tcaggcgcacaagttcattgaggct	D50621
22755	cattgaggctggccagtacaacagc	D50621
22756	tggccagtacaacagccacctctac	D50621
22757	gcactgcatccttgatgtctcagcc	D50621
22758	catccttgatgtctcagccaatgcc	D50621
22759	ctccctggagaatgtgctagagatc	D50621
22760	agtcgcacccaggatgatctcagca	W66801
22761	agcagcgatcctgaccttgctccta	W66801
22762	atgtcgactcaagatcctaggtccg	W66801
22763	caagatcctaggtccgcacaggagc	W66801
22764	gatcctaggtccgcacaggagctat	W66801
22765	cctaggtccgcacaggagctatagc	W66801
22766	caggagctatagcccacccgtgagat	W66801
22767	tagccacccgtgagatagcagatca	W66801
22768	tagcagatcatgtctacacgggccc	W66801
22769	atgtctacacgggcccgatgacccg	W66801
22770	gcccgatgacccggagcgaggagac	W66801
22771	cgatgacccggagcgaggagacaca	W66801
22772	agcgatcctgaccttgctcctactg	W66801
22773	cctgaccttgctcctactggtggat	W66801
22774	gaccttgctcctactggtggatcca	W66801
22775	cctactggtggatccagcagccgcc	W66801
22776	tattgtggatgctgtgctgtagctg	W66801
22777	ggatgctgtgctgtagctgtatcgt	W66801
22778	taatgtccttaaactactctaatgt	W66801
22779	ctaatgtcgactcaagatcctaggt	W66801
22780	gcttctcctcagaggtgctaatccc	U19596

SEQ ID NO	sequence	DBAxnID
65317	ccgtgaccaggtgctacatcaacta	AA061915
65318	gctacgaagccatgagcagaatcta	Z22819
65319	tggatgaactcttccagaaagtggc	Z22819
65320	acccttacttctacagctgttgtca	Z22819
65321	acttctacagctgttgtcatcactg	Z22819
65322	tctacagctgttgtcatcactgagt	Z22819
65323	acagctgttgtcatcactgagtcac	Z22819
65324	gttgtcatcactgagtcaccactca	Z22819
65325	gtcatcactgagtcaccactcatct	Z22819
65326	atcactgagtcaccactcatctggc	Z22819
65327	gagtcaccactcatctggcccagtg	Z22819
65328	tcaccactcatctggcccagtggaa	Z22819
65329	ccactcatctggcccagtggaatta	Z22819
65330	atgaactcttccagaaagtggctga	Z22819
65331	tcttccagaaagtggctgaggatta	Z22819
65332	acgtcagtgtggctgctttccaggt	Z22819
65333	tcagtgtggctgctttccaggtgat	Z22819
65334	ctgctttccaggtgatgacagagga	Z22819
65335	ctttccaggtgatgacagaggacaa	Z22819
65336	aggcaaacccttacttctacagctg	Z22819
65337	caaacccttacttctacagctgttg	Z22819
65338	ttcggatccatggatgtggtgagcc	AA139612
65339	gtggtgagcccatctgagttcaaga	AA139612
65340	gtttccttctggatggtctccacaa	AA139612
65341	ttctggatggtctccacaatgaggt	AA139612
65342	atggtctccacaatgaggtgaaccg	AA139612
65343	gtctccacaatgaggtgaaccgggt	AA139612
65344	tgaaccgggtggcagcaaggcctaa	AA139612
65345	ctaaggcagccctgagacccttgat	AA139612
65346	aggcagccctgagacccttgatcat	AA139612
65347	gacccttgatcatctccctgatgaa	AA139612
65348	tgatcatctccctgatgaagaaaag	AA139612
65349	tcatctccctgatgaagaaaagggg	AA139612
65350	agcccatctgagttcaagacccaga	AA139612
65351	ccatctgagttcaagacccagatcc	AA139612
65352	aagacccagatccagagatatgcgc	AA139612
65353	acccagatccagagatatgcgccac	AA139612
65354	atccagagatatgcgccacgcttca	AA139612
65355	agatatgcgccacgcttcatgggct	AA139612
65356	gcgccacgcttcatgggctataatc	AA139612
65357	ccacgcttcatgggctataatcagc	AA139612
65358	ccctatgtactacaggggtgcccag	X84239
65359	tgcccaggctgcaatcgtggtctat	X84239
65360	tgttattgccttggcagggaacaaa	X84239
65361	tgccttggcagggaacaaagctgac	X84239
65362	gaacaaagctgaccttgccaacaag	X84239
65363	agctgaccttgccaacaagcgcatg	X84239
65364	agaggctcaggcatatgcagatgac	X84239
65365	ggagacttcagctaagactgctatg	X84239
65366	ttcagctaagactgctatgaacgtg	X84239
65367	gaatgatctcttcctggcaatagca	X84239
65368	tcttcatgagcagtcccagcagaac	X84239
65369	tgagcagtcccagcagaacaagagc	X84239
65370	ggctgcaatcgtggtctatgatatt	X84239
65371	tcaggaaacgtttgctcgggcaaag	X84239
65372	aacgtttgctcgggcaaagacatgg	X84239
65373	ggaactacagcggcaagccagccct	X84239
65374	acagcggcaagccagccctagcatt	X84239
65375	gcaagccagccctagcattgttatt	X84239
65376	cagccctagcattgttattgccttg	X84239
65377	tagcattgttattgccttggcaggg	X84239
65378	actttggcttagccaaggcagagcg	X83972
65379	ggctggactcaagccggctgccagt	X83972
65380	ccttccgcaaaatagtggagaagct	X83972
65381	agaagctgggccgtgagctccgcag	X83972
65382	gtgagctccgcagtgtgggtgtctc	X83972
65383	acccctgatccctgaagcagaaagc	X83972
65384	gatccctgaagcagaaagcaagagg	X83972

SEQ ID NO	sequence	DBAxnID
107921	catgaacaacgccgaagacaatggc	W10606
107922	tgaacaacgccgaagacaatggcag	W10606
107923	gaacaacgccgaagacaatggcagg	W10606
107924	acaacgccgaagacaatggcaggct	W10606
107925	acgccgaagacaatggcaggctcgg	W10606
107926	tagtgcagcagagcttcgccatgtg	M27844
107927	gtgcagcagagcttcgccatgtgat	M27844
107928	cttatcttactgtcattgtccttaa	M27844
107929	tatcttactgtcattgtccttaaac	M27844
107930	tcttactgtcattgtccttaaacct	M27844
107931	taacatgttgcatgtggcttactct	M27844
107932	gttgcatgtggcttactctggctat	M27844
107933	catgtggcttactctggctatatct	M27844
107934	tgtggcttactctggctatatctaa	M27844
107935	tggcttactctggctatatctaagc	M27844
107936	gcttactctggctatatctaagccc	M27844
107937	ttactctggctatatctaagcccgt	M27844
107938	gcagcagagcttcgccatgtgatga	M27844
107939	ctggctatatctaagcccgtctgca	M27844
107940	agcagagcttcgccatgtgatgaca	M27844
107941	cagagcttcgccatgtgatgacaaa	M27844
107942	gagcttcgccatgtgatgacaaacc	M27844
107943	gcttcgccatgtgatgacaaacctt	M27844
107944	aattaggacttcattcctccatgtt	M27844
107945	ttcccttatcttactgtcattgtcc	M27844
107946	cccttatcttactgtcattgtcctt	M27844
107947	tatctctaaagtattctccatgttg	W10592
107948	atctctaaagtattctccatgttgt	W10592
107949	ttctccatgttgtgtcagactctga	W10592
107950	atgttgtgtcagactctgatccatc	W10592
107951	tgtgtcagactctgatccatcactt	W10592
107952	gtgtcagactctgatccatcacttc	W10592
107953	tgtcagactctgatccatcacttca	W10592
107954	tcagactctgatccatcacttcaag	W10592
107955	cagactctgatccatcacttcaagg	W10592
107956	agactctgatccatcacttcaagga	W10592
107957	actctgatccatcacttcaaggatg	W10592
107958	tctgatccatcacttcaaggatgcg	W10592
107959	ctctaaagtattctccatgttgtgt	W10592
107960	tctaaagtattctccatgttgtgtc	W10592
107961	ctaaagtattctccatgttgtgtca	W10592
107962	aaagtattctccatgttgtgtcaga	W10592
107963	aagtattctccatgttgtgtcagac	W10592
107964	agtattctccatgttgtgtcagact	W10592
107965	tattctccatgttgtgtcagactct	W10592
107966	attctccatgttgtgtcagactctg	W10592
107967	gttccagccttcgccatgggattcg	W20828
107968	cagccttcgccatgggattcggaga	W20828
107969	aaaggccagcctgccgggagtgaag	W20828
107970	aaggccagcctgccgggagtgaaga	W20828
107971	gccagcctgccgggagtgaagaaat	W20828
107972	ccagcctgccgggagtgaagaaatc	W20828
107973	cagcctgccgggagtgaagaaatct	W20828
107974	agcctgccgggagtgaagaaatctt	W20828
107975	ggtacgtgccatcacaagcagacgt	W20828
107976	gtacgtgccatcacaagcagacgtg	W20828
107977	tacgtgccatcacaagcagacgtgg	W20828
107978	acgtgccatcacaagcagacgtggc	W20828
107979	cgtgccatcacaagcagacgtggca	W20828
107980	gtgccatcacaagcagacgtggcag	W20828
107981	tgccatcacaagcagacgtggcagt	W20828
107982	caccacctgctgacctgtgtcatgc	W20828
107983	catctgaactcaatcaaggcttata	J05118
107984	aactcaatcaaggcttatatcactt	J05118
107985	tccacaatttacaagacttcaggct	J05118
107986	tatgacctgggcatcaaacacacat	J05118
107987	ctgggcatcaaacacacatttgcct	J05118
107988	cacacatttgcctttgagcttcgtg	J05118

TABLE 1

SEQ ID NO	sequence	DBAxnID
22781	taatcccaatttgaaagatggaact	U19596
22782	gcccttgcacttggctgccaaagaa	U19596
22783	ccttatgaagcacacagcctgcaat	U19596
22784	gaagcacacagcctgcaatgtgggg	U19596
22785	cacagcctgcaatgtggggcatcgg	U19596
22786	cgccttcgacttggccaggttctat	U19596
22787	cgacttggccaggttctatggaaga	U19596
22788	ggtcattagcctgatggaggcaaat	U19596
22789	agccacaagcctgcagtgaatgtgt	U19596
22790	tcactgacctcacactgtccgttag	U19596
22791	cactgtccgttagttggttggctgt	U19596
22792	tggttttgctgtcattcatgatgct	U19596
22793	tgatgctgccagagcaggtttcctg	U19596
22794	agcaggtttcctggacactgtacag	U19596
22795	tttcctggacactgtacaggctttg	U19596
22796	ggacactgtacaggctttgctggag	U19596
22797	tgtacaggctttgctggagttccag	U19596
22798	gctggagttccaggctgatgttaac	U19596
22799	gaacctgcccttgcacttggctgcc	U19596
22800	cacagggacgcttccggtctcactc	U20497
22801	cagaacctcatggacattctgcagg	U20497
22802	cggttcagtttcctctgcactgggg	U20497
22803	agtttcctctgcactggggctgcac	U20497
22804	ctctgcactggggctgcaccagggc	U20497
22805	tttaaagccctagcctcagagtgag	U20497
22806	cccttggaagctggtgaccttggca	U20497
22807	gaagctggtgaccttggcaggctgt	U20497
22808	ggtgaccttggcaggctgtgctcag	U20497
22809	gtgtgagccatctactttgggcatg	U20497
22810	gaaggtttccagtctgttgtacaga	U20497
22811	ttccagtctgttgtacagagtttga	U20497
22812	ctcatggacattctgcaggggcaca	U20497
22813	tccagtctgttgtacagagtttgaa	U20497
22814	gacattctgcaggggcacatgatga	U20497
22815	atgatgatcccaatgtgacccaagg	U20497
22816	atcccaatgtgacccaaggccactg	U20497
22817	atgtgacccaaggccactgtctcca	U20497
22818	tctcttttcacacctgtccattgaa	U20497
22819	ctcctacaggcaacagcatctaaac	U20497
22820	caggcaacagcatctaaacggttca	U20497
22821	tccactctcttgtccgtgctggggt	M98035
22822	cctcctatctgctgattcctgcagc	M98035
22823	cctttgtctccaacgagctagatga	M98035
22824	tctccaacgagctagatgatcccga	M98035
22825	tggccctggctaactggcagagcca	M98035
22826	tgaatctggtctatgacgtgactcc	M98035
22827	cacctgagctcgtggatctggtgat	M98035
22828	agctcgtggatctggtgatcacaga	M98035
22829	gcatgatcccttgcagttctgtgcc	M98035
22830	gcagttctgtgcctgttgttcttcg	M98035
22831	ctgtgcctgttgttcttcgagtcaa	M98035
22832	ctgttgttcttcgagtcaagagcag	M98035
22833	atctgctgattcctgcagcctccta	M98035
22834	atgtgcttccagaggtttctaaggt	M98035
22835	ttccagaggtttctaaggtgctatt	M98035
22836	ctcatgcactcctggccaatggatc	M98035
22837	ctcataacgttccagtactggtctg	M98035
22838	cagtactggtctgctgtgaaacgta	M98035
22839	acaagttctgtgaacgtgtgcagac	M98035
22840	ctgatgcctttgtctccaacgagct	M98035
22841	aagatccctgcctcggggatcagcc	D13545
22842	cctgcctcggggatcagccagattt	D13545
22843	tcctccctggaaatggacctggagg	D13545
22844	atgatgtggccactgtagtatctcc	D13545
22845	tacaaaggcacacccatgcacacac	D13545
22846	cacacacacacatttactgggaagc	D13545
22847	cacacatttactgggaagcaggctt	D13545
22848	tttactgggaagcaggcttgcttcc	D13545
65385	tgagacccccatgcctgggacactc	X83972
65386	actccataaagagcatttggaagga	X83972
65387	attttgtacaactgtctgatgcctg	X83972
65388	ttgtacaactgtctgatgcctgtgt	X83972
65389	tgtctgatgcctgtgtgtcctccac	X83972
65390	actcaagccggctgccagtcaagtg	X83972
65391	caagccggctgccagtcaagtggac	X83972
65392	ggacggcacctgaggctctcaaaaa	X83972
65393	cggcacctgaggctctcaaaaacgg	X83972
65394	cacctgaggctctcaaaaacgggcg	X83972
65395	atggaagagccccataccccaagat	X83972
65396	atggctgcccaggctctgtgcacac	X83972
65397	ccctcatgggtagctgctgggaggc	X83972
65398	tttttcccttgtgagtcctgcatcat	X57277
65399	tcccttgtgagtcctgcatcatttg	X57277
65400	tcagctctcacacagcgaggactca	X57277
65401	gctctcacacagcgaggactcaaga	X57277
65402	tttgacgaagctatccgagcggttc	X57277
65403	gacgaagctatccgagcggttctct	X57277
65404	cctgcctggaacctttgtagctttg	X57277
65405	gcctggaacctttgtagctttgctc	X57277
65406	tttgctcaaaaatcagcgagccttc	X57277
65407	tcagcgagccttcgcatttgatgcc	X57277
65408	attttgaaccaatgaaccagtcaat	X57277
65409	ttgaaccaatgaaccagtcaataat	X57277
65410	gtgagtcctgcatcatttgaaaatg	X57277
65411	tatcctgaagtgcgacaccactgtc	X57277
65412	cctgaagtgcgacaccactgtccca	X57277
65413	tgtcccaatactcctatcatcctcg	X57277
65414	cctatcatcctcgtggggacgaagc	X57277
65415	atcatcctcgtggggacgaagcttg	X57277
65416	tacctggagtgctcagctctcacac	X57277
65417	tgctcagctctcacacagcgaggac	X57277
65418	acgaggactgcctctactactttga	AA062131
65419	ttatccccctagagaacctggagag	AA062131
65420	acagacaccctgctacgtgttgtcc	AA062131
65421	gacaccctgctacgtgttgtccttt	AA062131
65422	gatcatgctgaacaccagcctttca	AA062131
65423	catgctgaacaccagcctttcaaat	AA062131
65424	tgctgaacaccagcctttcaaatcc	AA062131
65425	gctgaacaccagcctttcaaatccc	AA062131
65426	tgaacaccagcctttcaaatcccaa	AA062131
65427	acaccagcctttcaaatcccaatgt	AA062131
65428	cagcctttcaaatcccaatgtcagg	AA062131
65429	gcctttcaaatcccaatgtcagggg	AA062131
65430	tatccccctagagaacctggagagg	AA062131
65431	gtcttccagtctacagacaccctgc	AA062131
65432	cttccagtctacagacaccctgcta	AA062131
65433	ttccagtctacagacaccctgctac	AA062131
65434	ccagtctacagacaccctgctacgt	AA062131
65435	cagtctacagacaccctgctacgtg	AA062131
65436	gtctacagacaccctgctacgtgtt	AA062131
65437	tacagacaccctgctacgtgttgtc	AA062131
65438	gcacgtgcttcagactcatttgcga	X60672
65439	gcttcagactcatttgcgagggaat	X60672
65440	tcacttttccaacacatcacagcga	X60672
65441	cttttccaacacatcacagcgatag	X60672
65442	ttccaacacatcacagcgatagtcc	X60672
65443	atcacagcgatagtccttattgcta	X60672
65444	tacattatcattgctacatcagttg	X60672
65445	attatcattgctacatcagttgtta	X60672
65446	gctacatcagttgttacagtgttga	X60672
65447	ataacatttatcattagcagttgag	X60672
65448	acatttatcattagcagttgagagc	X60672
65449	catctctaatcttggataatactgg	X60672
65450	tcagactcatttgcgagggaatgct	X60672
65451	tgctttctgtatgagagggagacgg	X60672
65452	gtaggccttaccactcagacctgga	X60672
107989	tttattgccaagtatatcctcaaga	J05118
107990	ctcaagaatacttcctaatgaattg	J05118
107991	tggaaagacaacctcctacatcacc	J05118
107992	catcacctggattcatccttctctt	J05118
107993	tcatccttctcttgctcatgaagtc	J05118
107994	ttctcttgctcatgaagtcctgcat	J05118
107995	gcttatatcactttccattcctact	J05118
107996	ttccattcctactcgcagatgctat	J05118
107997	atgctattaattccttatggctaca	J05118
107998	ccttatggctacacattcaaactgc	J05118
107999	ggctacacattcaaactgcctccta	J05118
108000	gctctctcaactagatatgaaaccc	J05118
108001	cgttacatctacggcccaatagcat	J05118
108002	ggcccaatagcatccacaatttaca	J05118
108003	caagaataacctggcttcctgctac	W10645
108004	gaataacctggcttcctgctaccta	W10645
108005	caagccgatctggatgcatgctgag	W10645
108006	gccgatctggatgcatgctgaggaa	W10645
108007	gccccgtgacagcagtgcgccctat	W10645
108008	cagcagtgcgccctatgcagagtac	W10645
108009	cagtgcgccctatgcagagtacgga	W10645
108010	gtacaaggcctgctcatctgctgaa	W10645
108011	tgctgaacgatgctctcagcatccg	W10645
108012	tgaacgatgctctcagcatccggga	W10645
108013	acgatgctctcagcatccgggagag	W10645
108014	atgctctcagcatccgggagagcac	W10645
108015	cctggcttcctgctacctaaagcag	W10645
108016	ctacctaaagcagggcaagtactct	W10645
108017	caagtactctgaggccgaggctctg	W10645
108018	caaagagatcctgacctgtgcccat	W10645
108019	gatcctgacctgtgcccatgtgcag	W10645
108020	gacctgtgcccatgtgcaggagttc	W10645
108021	tgatgaccacaagccgatctggatg	W10645
108022	ccacaagccgatctggatgcatgct	W10645
108023	cactacaggccatctttgcctgcta	M10114
108024	aggccatctttgcctgctactgcta	M10114
108025	aatactgtggccaatcctgaagctt	M10114
108026	aatcctgaagcttccacagtgtcta	M10114
108027	gtgtctatcaataccccgagacta	M10114
108028	atcaataccccgagactactacag	M10114
108029	gagactactacagtcccagtgtcct	M10114
108030	gtcccagtgtcctcaactgcagcat	M10114
108031	gtgtcctcaactgcagcataaaaca	M10114
108032	tcaactgcagcataaaacactaagg	M10114
108033	ggaaactctgccatcattcaagaga	M10114
108034	tctgccatcattcaagagaaaatgc	M10114
108035	tctttgcctgctactgctagcccat	M10114
108036	cctgctactgctagcccatacatgt	M10114
108037	agcccatacatgtactacccacttg	M10114
108038	atctccaaatggcaatcaatgccaa	M10114
108039	atgccaaatttcccccagtctgctg	M10114
108040	ccatcctttcttgccatgcctacaa	M10114
108041	gccatgcctacaaatgaaaatcagg	M10114
108042	attactcccattgtgtccacaccag	M10114
108043	catgcttttgatgccgtttcctgaa	L25069
108044	gcttttgatgccgtttcctgaaggg	L25069
108045	cacacacacatgcaatacacacact	L25069
108046	acacacatgcaatacacacactaca	L25069
108047	atgcaatacacacactacacacaca	L25069
108048	tataagcaaaaccatacttgcatca	L25069
108049	aaccatacttgcatcatgtcttcca	L25069
108050	catacttgcatcatgtcttccaaaa	L25069
108051	tgcatcatgtcttccaaaagtaact	L25069
108052	acttaatgtttattcctgtgctgtg	L25069
108053	taatgtttattcctgtgctgtgcgg	L25069
108054	taatacgcagtgatttcacatagga	L25069
108055	gatgccgtttcctgaagggaaatga	L25069
108056	tctaataggacttctgtttggatta	L25069

TABLE 1

SEQ ID NO	sequence	DBAxnID
22849	tgcttccaccttacttttgacagaa	D13545
22850	gcattcctattgaaactgttaaaat	D13545
22851	ttaaaatcctcaagcagcaagacaa	D13545
22852	tcctcaagcagcaagacaattaaaa	D13545
22853	aatcattaccaagtagcctgtcaga	D13545
22854	ttttttgagagccagcgcatcctaa	D13545
22855	cagcgcatcctaactggtggcaaag	D13545
22856	atcctaactggtggcaaagatatca	D13545
22857	gaaatcagtcagccagaaacacctc	D13545
22858	ccagaaacacctcagcacaaaccta	D13545
22859	agcacccagaagaccagggatgctg	D13545
22860	gatgctgcatctgcgctggcctccc	D13545
22861	ctgattataactccgacgtttacag	U16162
22862	ataactccgacgtttacagctgact	U16162
22863	gtagatttcaccacaagtcaggagc	U16162
22864	ttcaccacaagtcaggagctggtgg	U16162
22865	cttacagacggcaggcatgcagacg	U16162
22866	aggcatgcagacgccagtgtgctgc	U16162
22867	gtgctgctcttccgatgtgtggact	U16162
22868	ctcttccgatgtgtggactgctgag	U16162
22869	aactagggcccagtcaggtctgcta	U16162
22870	gtcaggtctgctattccacgtgcag	U16162
22871	tctgctattccacgtgcagagttcc	U16162
22872	attccacgtgcagagttcctattat	U16162
22873	gctgactaacactccatgattaatt	U16162
22874	taacactccatgattaattgggcca	U16162
22875	tcagccccatgtctcacctgtggac	U16162
22876	ccatgtctcacctgtggacaatcac	U16162
22877	ctcacctgtggacaatcacttattt	U16162
22878	aatactcaatcaccacatgatgtaa	U16162
22879	atggttcagttttcacaggatacaa	U16162
22880	cagttttcacaggatacaaggcatt	U16162
22881	gaacatgctccgaccatctcggctc	W66916
22882	acgcttcaggaccccagaagagagc	W66916
22883	agctggcttcccaagctactgcgga	W66916
22884	ctggcttcccaagctactgcggagt	W66916
22885	tggcttcccaagctactgcggagtt	W66916
22886	gcttcccaagctactgcggagtttg	W66916
22887	cttcccaagctactgcggagtttga	W66916
22888	tcccaagctactgcggagtttgaga	W66916
22889	cccaagctactgcggagtttgagaa	W66916
22890	caagctactgcggagtttgagaagg	W66916
22891	aagctactgcggagtttgagaaggc	W66916
22892	ctactgcggagtttgagaaggcaat	W66916
22893	gatactgccaaagatgctctcttcg	W66916
22894	atactgccaaagatgctctcttcgc	W66916
22895	actgccaaagatgctctcttcgcct	W66916
22896	ctgccaaagatgctctcttcgcctc	W66916
22897	tttttccaggaactgtttgacagtg	W66916
22898	ttttccaggaactgtttgacagtga	W66916
22899	ttccaggaactgtttgacagtgagc	W66916
22900	aactgtttgacagtgagctggcttc	W66916
22901	atttggcccaagaagggcacagctg	U16163
22902	gtattctggtacaaccttcttcgca	U16163
22903	atgtcccagctcctgtcaggcaggt	U16163
22904	cagctcctgtcaggcaggtcattgg	U16163
22905	ctgtcaggcaggtcattggaggagc	U16163
22906	cctgagcctagtcctgggtgacctg	U16163
22907	cagactctgaccagcttacacctgc	U16163
22908	atggctgcggtagagccagactata	U16163
22909	gagccagactatagcacccggcacg	U16163
22910	gactatagcacccggcacggtcgct	U16163
22911	ggtcgctttgtacctcagatatttc	U16163
22912	tttgtacctcagatatttcaggtag	U16163
22913	tggtacaaccttcttcgcagtgggg	U16163
22914	agacatgcagcctgccctgtgcttg	U16163
22915	tccaacaagtggttccatgagcgag	U16163
22916	aagtggttccatgagcgaggacagg	U16163

SEQ ID NO:	sequence	DBAxnID
65453	cttaccactcagacctggacgtata	X60672
65454	actcagacctggacgtataagtgct	X60672
65455	cagacctggacgtataagtgctcac	X60672
65456	tataagtgctcacttttccaacaca	X60672
65457	aagtgctcacttttccaacacatca	X60672
65458	cggtccgatcggcgcacgtgcccaa	AA015354
65459	gatcggcgcacgtgcccaagagccc	AA015354
65460	tcctctgaggactctggaaaacagg	AA015354
65461	atggctgcaaacaagcccaagggtc	AA015354
65462	ggctgcaaacaagcccaagggtcag	AA015354
65463	gctgcaaacaagcccaagggtcaga	AA015354
65464	ctgcaaacaagcccaagggtcagaa	AA015354
65465	tgcaaacaagcccaagggtcagaat	AA015354
65466	gcaaacaagcccaagggtcagaatt	AA015354
65467	agttcatgtacgacgagtttgtaga	AA015354
65468	gttcatgtacgacgagtttgtagag	AA015354
65469	ttcatgtacgacgagtttgtagagg	AA015354
65470	cgcacgtgcccaagagcccgcgggt	AA015354
65471	catgtacgacgagtttgtagaggac	AA015354
65472	tttcttaatcctctgaggactctgg	AA015354
65473	ttcttaatcctctgaggactctgga	AA015354
65474	tcttaatcctctgaggactctggaa	AA015354
65475	cttaatcctctgaggactctggaaa	AA015354
65476	taatcctctgaggactctggaaaac	AA015354
65477	aatcctctgaggactctggaaaaca	AA015354
65478	atcctctgaggactctggaaaacag	AA015354
65479	ctgctggcctccaagctgggatgga	AA080227
65480	gcctccaagctgggatggaaattct	AA080227
65481	accactgagcgaccagagatgtggc	AA080227
65482	cactgagcgaccagagatgtggctt	AA080227
65483	ggctttgggacagcctgttgttcta	AA080227
65484	ctttgggacagcctgttgttctagc	AA080227
65485	tgttctagcctgttcagctctgaag	AA080227
65486	ctagcctgttcagctctgaagaaaa	AA080227
65487	agcctgttcagctctgaagaaaacg	AA080227
65488	cctgttcagctctgaagaaaacgta	AA080227
65489	aaacgtacagagacatcttgatccg	AA080227
65490	acagagacatcttgatccgaggagg	AA080227
65491	aaattctatgatgccgatgattacc	AA080227
65492	attctatgatgccgatgattaccac	AA080227
65493	gccgatgattaccactccgaggaga	AA080227
65494	cgatgattaccactccgaggagaat	AA080227
65495	atgattaccactccgaggagaatcg	AA080227
65496	gattaccactccgaggagaatcgga	AA080227
65497	gggtaccactgagcgaccagagatg	AA080227
65498	gtaccactgagcgaccagagatgtg	AA080227
65499	atctgatccaaacttgtcaactgct	X66983
65500	tccaaacttgtcaactgcttcaacg	X66983
65501	gagctacaccacttacaaccagacg	X66983
65502	ttacaaccagacgggatacatgcct	X66983
65503	gggatacatgccttcctttctcaag	X66983
65504	atcagctggccagaggatccaattg	X66983
65505	ccaattggcacctttaggtgcgtcg	X66983
65506	ggcttcggactatacctggagcaca	X66983
65507	ggactatacctggagcacaaaaact	X66983
65508	cacagccaaaaatctcaatattgtg	X66983
65509	actcattgctccgtagaggacgatc	X66983
65510	ccttgatcccgggagccctctacag	X66983
65511	aactgcttcaacggctaagcagtac	X66983
65512	ttcaacggctaagcagtactatttg	X66983
65513	gaaacaatcaagataccttccaggt	X66983
65514	ccccaagaatgtgtctttggtagct	X66983
65515	gaatgtgtctttggtagctggaggc	X66983
65516	tataaattcacactcttggaataat	X66983
65517	ttcacactcttggaataatcagcta	X66983
65518	atttcctaagtcgctgggatccatg	X66983
65519	atatcaccaatacttacttctatcc	AA062245
65520	tactcaaatacataccctactacat	AA062245

SEQ ID NO:	sequence	DBAxnID
108057	atagtgtattcctcattacctcat	L25069
108058	gtgtattcctcattacctcatggt	L25069
108059	tattctcctattacctcatggtctg	L25069
108060	attacctcatggtctggtatatata	L25069
108061	acctcatggtctggtatatatacaa	L25069
108062	acacacacacacatgcaatacacac	L25069
108063	acaacgcaacgtggagacgcaacag	M62362
108064	cagtgacaatgaccgcctgcgcaag	M62362
108065	tggatctctaggctgcccgggccgc	M62362
108066	atctctaggctgcccgggccgcgca	M62362
108067	cgcaagccaggactaggagattccg	M62362
108068	ttcctctgagccggactcggtgcgt	M62362
108069	gccggactcggtgcgtctaagatga	M62362
108070	tccttgagaccgagagacttttccg	M62362
108071	ccgagagacttttccgcggagctga	M62362
108072	agagacttttccgcggagctgagct	M62362
108073	gacttttccgcggagctgagctggg	M62362
108074	gaagtaaccttgtgccttggatact	M62362
108075	tgacaatgaccgcctgcgcaagcgg	M62362
108076	ccgtgaactggacacgctgcggggc	M62362
108077	ccgccagctgcctgagagctccttg	M62362
108078	ccagctgcctgagagctccttggtc	M62362
108079	gctgcctgagagctccttggtcaag	M62362
108080	tgagagctccttggtcaaggccatg	M62362
108081	gagctccttggtcaaggccatggca	M62362
108082	aggatggtttcgggtcgctggatct	M62362
108083	tagctgaggcactgttctcaaaagg	M65270
108084	tgttctcaaaaggctcaatgctagt	M65270
108085	tgtcagcatgccagggcgtcgactc	M65270
108086	cctgcatgtcctctctctactgtag	M65270
108087	tgtcctctctctactgtagtgtcat	M65270
108088	ctctctactgtagtgtcatttctca	M65270
108089	gtgtcatttctcacaaggccgtcca	M65270
108090	catcttgtactttcatcctcctaag	M65270
108091	tcatcctcctaagctgttacataaa	M65270
108092	gtatcttgtcctaccaggtcaagag	M65270
108093	tccaccgctcaacatggtttcagat	M65270
108094	cagaggccaccatgacaatgtagcc	M65270
108095	tgctagtcttccagagttagggctc	M65270
108096	tcttccagagttagggctccagaga	M65270
108097	accaagctctgtggacaacagtggg	M65270
108098	ctataactcgtacattcagaaggct	M65270
108099	ctcgtacattcagaaggctgaggca	M65270
108100	tgcaggccaacctgagctacagtta	M65270
108101	ccaacctgagctacagttacagtgt	M65270
108102	tacaagtgtcagcatgccagggcgt	M65270
108103	catcctgattacaatccgcagaaca	X78544
108104	gattacaatccgcagaacatccgga	X78544
108105	tgtagcaatgtggcccagggcatcg	X78544
108106	gtctcctatggaagcaacaatggta	X78544
108107	ccagctgtattcaccaaaatccaga	X78544
108108	agcttcatgccctggatcaaaagaa	X78544
108109	agacgctttgcaccaagatatcaga	X78544
108110	tttgcaccaagatatcagagacctg	X78544
108111	tatcagagacctgctaactccctgt	X78544
108112	gctaactccctgtctcaggcacaga	X78544
108113	tctcaggcacagacctagggacttc	X78544
108114	gcacagacctagggacttccatagc	X78544
108115	cagaacatccggaatgacatcatgc	X78544
108116	aaactgcagccaggggatttgtgca	X78544
108117	gaccaaatgtgcgccaatcgcttcc	X78544
108118	gccaatcgcttccagttctacaaca	X78544
108119	cgcttccagttctacaacagccaga	X78544
108120	cagttctacaacagccagactcaga	X78544
108121	tacaacagccagactcagatctgtg	X78544
108122	tctgccttcaggggtgattctggtg	X78544
108123	ccatgaccgagctgctcaagtctgt	AA120674
108124	gaccgagctgctcaagtctgtggac	AA120674

TABLE 1

SEQ ID NO	sequence	DBAxnID
22917	gttgattgacgtccttttctctccg	U16163
22918	ccctggcccatagtccaaatcatct	U16163
22919	cccatagtccaaatcatcttcaagt	U16163
22920	atcatcttcaagttcaacatgacag	U16163
22921	ctctcagaagttcttctttggggat	L36962
22922	tcagaagttcttctttggggatgcc	L36962
22923	tatccagcggacaagccctgctcgg	L36962
22924	ttcccaggactgacttttctactcg	L36962
22925	ggactgacttttctactcgtgcatt	L36962
22926	ctgacttttctactcgtgcattcca	L36962
22927	acttttctactcgtgcattccagct	L36962
22928	tctccccatggttggagcagccaaa	L36962
22929	ccccatggttggagcagccaaaaat	L36962
22930	aaatggggcgctgtcctcagaataa	L36962
22931	ggcgctgtcctcagaataaacctgt	L36962
22932	gctgtcctcagaataaacctgttta	L36962
22933	ttttagccatttggccctgctgctg	L36962
22934	tcctcagaataaacctgtttacact	L36962
22935	gaagctgcaggcccaccttcggggg	L36962
22936	ctactttccccgggatggagatgag	L36962
22937	tccccgggatggagatgaggtgcca	L36962
22938	agcccctgagaccgaggaggagcca	L36962
22939	ccggacccagattctctctgtgctg	L36962
22940	gctcagtggcatcgtttctatccag	L36962
22941	ttctatccagcggacaagccctgct	L36962
22942	cttgccttctgactgtcacacctga	W66969
22943	tgccttctgactgtcacacctgaac	W66969
22944	aagaccgcacgcacattggcaatga	W66969
22945	gaccgcacgcacattggcaatgaag	W66969
22946	ccgcacgcacattggcaatgaagca	W66969
22947	gcacgcacattggcaatgaagcacc	W66969
22948	gcaatgaagcaccatacatagtatg	W66969
22949	aatgaagcaccatacatagtatgtt	W66969
22950	aagcaccatacatagtatgttcagg	W66969
22951	aggaatgtcacacgccacgcacatc	W66969
22952	gaatgtcacacgccacgcacatccg	W66969
22953	tcacctggacctccttcaattttgg	W66969
22954	ctgactgtcacacctgaacagaacg	W66969
22955	gtcacacctgaacagaacggacacc	W66969
22956	cacacctgaacagaacggacacctg	W66969
22957	tgaacagaacggacacctgtctcct	W66969
22958	ggacacctgtctcctttgtcctcgg	W66969
22959	tcctcggacacagtttttcacggag	W66969
22960	agaacaaagaccgcacgcacattgg	W66969
22961	caaagaccgcacgcacattggcaat	W66969
22962	ggtggcctcatggcacagaaagagg	W97305
22963	ggcctcatggcacagaaagaggcta	W97305
22964	cagccttggagccttcctggaactc	W97305
22965	ccttggagccttcctggaactcctg	W97305
22966	cttcctggaactcctgaagagtcag	W97305
22967	gaagagtcagcttcccatcagcatt	W97305
22968	gagtcagcttcccatcagcattctt	W97305
22969	gcttcccatcagcattcttgtccat	W97305
22970	tcccatcagcattcttgtccatcat	W97305
22971	catcagcattcttgtccatcatggc	W97305
22972	tcttgtccatcatggcaaagatccg	W97305
22973	tgtccatcatggcaaagatccggtc	W97305
22974	agtggttcccacacatcacagctct	W97305
22975	cacacatcacagctctgggcctgga	W97305
22976	tcacagctctgggcctggactatac	W97305
22977	ctctgggcctggactataccagccc	W97305
22978	gcctggactataccagcccatcgta	W97305
22979	ccagcccatcgtagagggacagcgc	W97305
22980	acagcgcctgcacaatggagggatc	W97305
22981	gcgcctgcacaatggagggatcagc	W97305
22982	gctaatcgctaacccttgtgcaac	AA002504
22983	tttgtgcaactcccgacaactctat	AA002504
22984	atcagacacctgccagggtgactcg	AA002504

SEQ ID NO:	sequence	DBAxnID
65521	ctactatttcaaccatcaacacaaa	AA062245
65522	tttcaaccatcaacacaaatctcac	AA062245
65523	caaccatcaacacaaatctcaccat	AA062245
65524	caaatctcaccatccaatttataca	AA062245
65525	atctcaccatccaatttatacatta	AA062245
65526	ccatccaatttatacattaatatcc	AA062245
65527	ctcttccatacctatccaaatttca	AA062245
65528	ttccatacctatccaaatttcatct	AA062245
65529	tatccaaatttcatctcaccatata	AA062245
65530	aatttcatctcaccatatacatact	AA062245
65531	tcaaatacataccctactacatatt	AA062245
65532	atctcaccatatacatacttaccaa	AA062245
65533	acatattttaccttcattatatcct	AA062245
65534	attatatccttcccaaacatctcaa	AA062245
65535	ttcccaaacatctcaactctactat	AA062245
65536	ccaaacatctcaactctactatttc	AA062245
65537	aacatctcaactctactatttcaac	AA062245
65538	tcaactctactatttcaaccatcaa	AA062245
65539	actctactatttcaaccatcaacac	AA062245
65540	cagcgccgggaccactgcttgtgcg	AA062247
65541	ggaccactgcttgtgcgcgcactgc	AA062247
65542	ctgacgggcgccaaacagaacaccg	AA062247
65543	acagaacaccggcgtgtggctggtc	AA062247
65544	agaacaccggcgtgtggctggtcaa	AA062247
65545	aacaccggcgtgtggctggtcaagg	AA062247
65546	tggctggtcaaggttcctaaatatt	AA062247
65547	atttgtcccagcaatgggcaaaagc	AA062247
65548	ttgtcccagcaatgggcaaaagcct	AA062247
65549	gtcccagcaatgggcaaaagcctct	AA062247
65550	tgggcaaaagcctctggaagaggtg	AA062247
65551	aaagcctctggaagaggtgaagttg	AA062247
65552	accactgcttgtgcgcgcactgcac	AA062247
65553	cactgcttgtgcgcgcactgcacgc	AA062247
65554	ctgcttgtgcgcgcactgcacgcct	AA062247
65555	tcctcacgcgacaagctcatggcgg	AA062247
65556	aactcgatctgacgggcgccaaaca	AA062247
65557	ctcgatctgacgggcgccaaacaga	AA062247
65558	cgatctgacgggcgccaaacagaac	AA062247
65559	atctgacgggcgccaaacagaacac	AA062247
65560	tcatccttcagttcttgataggct	X70067
65561	cttcagttcttgataggctggtagc	X70067
65562	tgtgccacacctgtgcaaaggacca	X70067
65563	acactgctgttctgttgggccgacc	X70067
65564	catgccctgctgagtacgcttcaac	X70067
65565	ctgctgagtacgcttcaacttagag	X70067
65566	ttactttctagaatttgtgagccag	X70067
65567	atttgtgagccagttctacagggtc	X70067
65568	acccccgttgtcacctgccattcatg	X70067
65569	ttgtcacctgccattcatggtgatg	X70067
65570	attcatggtgatgttgcaggttaac	X70067
65571	ggttaaccttggcagtgtgtacatt	X70067
65572	ttcttgataggctggtagcagagcc	X70067
65573	cagagccagctggaacctatggcag	X70067
65574	cagctggaacctatggcagcacacg	X70067
65575	gaacctatggcagcacacggatttc	X70067
65576	atggcagcacacggatttccacaga	X70067
65577	ccacagatgacccagaaccagacag	X70067
65578	atgacccagaaccagacagcctggt	X70067
65579	cagaaccagacagcctggtctagcc	X70067
65580	aaccatgccaaccatttactgagct	AA062275
65581	gccaaccatttactgagctctaaaa	AA062275
65582	cgtccccaagaagctgcagtgtaac	AA062275
65583	ccccaagaagctgcagtgtaacggc	AA062275
65584	tgatgactggagcgacgaggcgcat	AA062275
65585	gcattgcaactgcagcaaggatctg	AA062275
65586	ttgcaactgcagcaaggatctgttt	AA062275
65587	caactgcagcaaggatctgtttcac	AA062275
65588	caaggatctgtttcactgtggcaca	AA062275

SEQ ID NO	sequence	DBAxnID
108125	tctggttggctgggtgaagaacaca	AA120674
108126	acacaagcaaaggcacagtgacagg	AA120674
108127	atgccatgaagtcctggctgagcaa	AA120674
108128	gccatgaagtcctggctgagcaagg	AA120674
108129	catgaagtcctggctgagcaaggtt	AA120674
108130	cctggctgagcaaggttgggagtcc	AA120674
108131	ggagtcctagttctcgcatcgaccg	AA120674
108132	agtcctagttctcgcatcgaccggg	AA120674
108133	ctagttctcgcatcgaccgggccga	AA120674
108134	ttctcgcatcgaccgggccgacttt	AA120674
108135	ccgagctgctcaagtctgtggacta	AA120674
108136	gagctgctcaagtctgtggactacg	AA120674
108137	gctgctcaagtctgtggactacgaa	AA120674
108138	ctcaagtctgtggactacgaagtgt	AA120674
108139	caagtctgtggactacgaagtgttc	AA120674
108140	agtctgtggactacgaagtgttcgg	AA120674
108141	tggactacgaagtgttcgggacagt	AA120674
108142	tgttcgggacagtgcaaggtgtttg	AA120674
108143	ctgctggacatgctgcgccgcgaac	W10747
108144	acatgctgcgccgcgaacactgaag	W10747
108145	tggctgacgatcggggcatccagaa	W10747
108146	ctgacgatcggggcatccagaaggg	W10747
108147	tgacgatcggggcatccagaagggc	W10747
108148	acgatcggggcatccagaagggcaa	W10747
108149	cgatcggggcatccagaagggcaac	W10747
108150	acctaccagatgctggcgcgcacgt	W10747
108151	ctaccagatgctggcgcgcacgtgc	W10747
108152	taccagatgctggcgcgcacgtgca	W10747
108153	accagatgctggcgcgcacgtgcaa	W10747
108154	cagatgctggcgcgcacgtgcaaac	W10747
108155	catgctgcgccgcgaacactgaagg	W10747
108156	tgctgcgccgcgaacactgaaggac	W10747
108157	tccaagcacaaggcggtgctggctg	W10747
108158	ccaagcacaaggcggtgctggctga	W10747
108159	aagcacaaggcggtgctggctgacg	W10747
108160	agcacaaggcggtgctggctgacga	W10747
108161	gcacaaggcggtgctggctgacgat	W10747
108162	gtgctggctgacgatcggggcatcc	W10747
108163	tgctgccaccaaggcagcgcagcct	J02809
108164	ggcagcgcagcctccaacggagact	J02809
108165	tctctctgtgtggcaaacatttaaa	J02809
108166	aagtccaacagtgtggcttaaacat	J02809
108167	gcttaaacattgtttcttggtgttg	J02809
108168	tgatgcagtcatcttgggaaattct	J02809
108169	gcgtgtggccctgtgggagtccact	J02809
108170	tgtggccctgtgggagtccactttc	J02809
108171	ggagtccactttcctctctatttct	J02809
108172	tgtgtgtgcaactgttccgttctga	J02809
108173	tgcaactgttccgttctgaggagtc	J02809
108174	tgttccgttctgaggagtccaaaat	J02809
108175	agcgcagcctccaacggagactgca	J02809
108176	tgcccgacaggatgagggtaaagaa	J02809
108177	tgaccaagaacatgcctgaacttta	J02809
108178	acatgcctgaactttaagaaatggc	J02809
108179	cactctgaagtttccatctcctgtc	J02809
108180	tgtgagcctgtcctctcctacctat	J02809
108181	tgagccctctctctctgtgtggcaa	J02809
108182	gccctctctctctgtgtggcaaaca	J02809
108183	agtcagcatgcaggtctcagttctc	X63747
108184	ctcagttctcatcaacgtctgcata	X63747
108185	tgttctcgttgtaaacgttagaatg	X63747
108186	ttttgctgtagtcatcaagggtgcc	X63747
108187	cactccaggccccagtgtactgtgt	X63747
108188	ccccagtgtactgtgtgtccagtat	X63747
108189	cagtgtactgtgtgtccagtatagt	X63747
108190	actgtgtgtccagtatagttaagga	X63747
108191	ttaacatgtatcccacagttgtagt	X63747
108192	aattgagccaccttgaacagtctga	X63747

TABLE 1

SEQ ID NO	sequence	DBAxnID
22985	agacacctgccagggtgactcgggg	AA002504
22986	gggccctctaacctgtgagaaggat	AA002504
22987	ctacgtctacgggattgtaagctgg	AA002504
22988	gccaggagtctacactcaagtcacc	AA002504
22989	aggagtctacactcaagtcaccaag	AA002504
22990	agtctacactcaagtcaccaagttc	AA002504
22991	ctacactcaagtcaccaagttcctg	AA002504
22992	cactcaagtcaccaagttcctgaat	AA002504
22993	tcaagtcaccaagttcctgaattgg	AA002504
22994	acaactctatgaccacaccatcgat	AA002504
22995	actctatgaccacaccatcgatgac	AA002504
22996	ctatgaccacaccatcgatgacagt	AA002504
22997	ccacaccatcgatgacagtatgatt	AA002504
22998	caccatcgatgacagtatgatttgt	AA002504
22999	gaaccttcagaagcccggatcagac	AA002504
23000	ccttcagaagcccggatcagacacc	AA002504
23001	gaagcccggatcagacacctgccag	AA002504
23002	cagtcagaccagtaagcccttctgg	U20326
23003	taagcccttctgggtttgagtgtgt	U20326
23004	tctgctcaaagcctaacacagaagc	U20326
23005	caaagcctaacacagaagcagcttc	U20326
23006	ctaacacagaagcagcttcatccca	U20326
23007	catcccagtgacgatgctggacgta	U20326
23008	agtaaacatccgatgctcagagtta	U20326
23009	catccgatgctcagagttagcataa	U20326
23010	tgcattttcacagaaatcaagatgt	U20326
23011	ttgtatactatatcacttagacaac	U20326
23012	agacaactgtgtttcatttgctgta	U20326
23013	aactattccaataaagctggaggag	U20326
23014	aaccaattctggaagcatctaagct	U20326
23015	aagcatctaagcttccataaataac	U20326
23016	ctttaattcttagcataatgacggc	U20326
23017	gcataatgacggccttggattgtct	U20326
23018	ccttggattgtctgacctcagtagc	U20326
23019	attgtctgacctcagtagctattaa	U20326
23020	taacatctgcatcaggccctcagaa	U20326
23021	ctgcatcaggccctcagaatataca	U20326
23022	atctgtcactcatttgttcactggg	U17252
23023	cactcatttgttcactgggatacag	U17252
23024	agacaacaacacttactgtctccat	U17252
23025	caacacttactgtctccatgagttt	U17252
23026	ttactgtctccatgagtttaagtgc	U17252
23027	taagtgcttcagtgtctctgggaat	U17252
23028	cttcagtgtctctgggaatgctcta	U17252
23029	gaagcttcaaggctgtggtcacggc	U17252
23030	tcacggccgctaccatgcaaagcaa	U17252
23031	cttctaccaagacaacatacatcag	U17252
23032	ccaagacaacatacatcagctacag	U17252
23033	caacatacatcagctacagtgatca	U17252
23034	tttgttcactgggatacagtatcct	U17252
23035	gatacagtatcctcctgatggtcac	U17252
23036	tcctgatggtcacttgtactgttta	U17252
23037	tggtcacttgtactgtttatgccat	U17252
23038	gatttaccatgtacaccacgtgcat	U17252
23039	ccatgtacaccacgtgcatcatttg	U17252
23040	acaccacgtgcatcatttggttagc	U17252
23041	agatgtacatccagacaacaacact	U17252
23042	gcctcgtatcttccatgtcaattgg	AA044561
23043	tcgtatcttccatgtcaattggttc	AA044561
23044	cagtgcccaagagactcccattggg	AA044561
23045	ccaagagactcccattgggctagta	AA044561
23046	gactcccattgggctagtaccaaag	AA044561
23047	ggacctcagtggcctcagcgcagtg	AA044561
23048	cctcagtggcctcagcgcagtggac	AA044561
23049	cagtggcctcagcgcagtggacacc	AA044561
23050	cctcagcgcagtggacaccagtcag	AA044561
23051	ggacaccagtcagctgttctccatc	AA044561
23052	ccccaaggacttctgggagcaggag	AA044561

SEQ ID NO	sequence	DBAxnID
65589	ggatctgtttcactgtggcacaggc	AA062275
65590	tctgtttcactgtggcacaggcaag	AA062275
65591	gtttcactgtggcacaggcaagtgc	AA062275
65592	catttactgagctctaaaacgatga	AA062275
65593	tcactgtggcacaggcaagtgcctc	AA062275
65594	ttactgagctctaaaacgatgagtt	AA062275
65595	acgatgagttctcacctctgcatcc	AA062275
65596	tctcacctctgcatccttcggaagg	AA062275
65597	cacctctgcatccttcggaagggaa	AA062275
65598	ctctgcatccttcggaagggaagat	AA062275
65599	atccttcggaagggaagatgaagct	AA062275
65600	agacttcctgtgtaccagcgggctc	AA062275
65601	ccacaacagtctttgtggactgcac	X14770
65602	tcccacaaagcactatgggaatgct	X14770
65603	ttggtccccaagggctcagctgctg	X14770
65604	tagagatgctggcacacccaacgaa	X14770
65605	tgctggcacacccaacgaactatgg	X14770
65606	attctgagtctctcagagcaagaaa	X14770
65607	atggcccagatgctgagccaggcat	X14770
65608	tcacctctcaggagggctgagacta	X14770
65609	actctagacccatttctaactatgc	X14770
65610	gacccatttctaactatgctgtcaa	X14770
65611	actatgctgtcaaccatcgtattaa	X14770
65612	ctgtcaaccatcgtattaagagata	X14770
65613	ttccgtatccaggaagattctggag	X14770
65614	ttccgagctagcgtgtgtggaaagt	X14770
65615	ttgctgtttcttctgggaacgtcag	X14770
65616	acgtcaggcaaactctcaggggaag	X14770
65617	ttttggtggcaccttgtgggatggc	X14770
65618	tggcaccttgtgggatggcacccac	X14770
65619	cacccacaaggactgttgtggccat	X14770
65620	tggccatctgagaccaccaggaggc	X14770
65621	ttttcgatcacatctatactactca	X67812
65622	atcacatctatactactcaaagtga	X67812
65623	agccagacaagaggccagtgtttgc	X67812
65624	ctgacatcagcaaggatctggagaa	X67812
65625	gagactacttggacctggctgcatc	X67812
65626	acttggacctggctgcatccacacc	X67812
65627	cttcggactcactgctgtatgacga	X67812
65628	tctatggcatgtcagacccgaactg	X67812
65629	gcatgtcagacccgaactggcctgg	X67812
65630	cagacccgaactggcctggagagag	X67812
65631	taccactcacgagagccgatggcac	X67812
65632	ctagcactgggttcccaagatatgc	X67812
65633	tgctgctctgggagattgtgaccct	X67812
65634	gactcttcaaccttctgaagacagg	X67812
65635	tcaaccttctgaagacaggccacag	X67812
65636	ttctgaagacaggccacaggatgga	X67812
65637	agaggccagacaactgcagcgagga	X67812
65638	cagacaactgcagcgaggaaatgta	X67812
65639	aaatgtaccgtctgatgctgcagtg	X67812
65640	accgtctgatgctgcagtgctggaa	X67812
65641	aatgttgtccaccagctgtcagtaa	AA062328
65642	ttgtccaccagctgtcagtaactct	AA062328
65643	aggtccacatccagcagattgggcc	AA062328
65644	agcagatccagactgtgtgcatcga	AA062328
65645	cagatccagactgtgtgcatcgagt	AA062328
65646	ggcgagcgcatcaaccccaaggacc	AA062328
65647	agcgcatcaaccccaaggaccgctg	AA062328
65648	tcaaccccaaggaccgctgtgagaa	AA062328
65649	ccccaaggaccgctgtgagaactgc	AA062328
65650	ccaaggaccgctgtgagaactgcag	AA062328
65651	gagaactgcagcggacgcaaggtta	AA062328
65652	actgcagcggacgcaaggttacccg	AA062328
65653	gtccaccagctgtcagtaactctgg	AA062328
65654	ccaccagctgtcagtaactctggaa	AA062328
65655	accagctgtcagtaactctggaaga	AA062328
65656	gctgtcagtaactctggaagactta	AA062328

SEQ ID NO	sequence	DBAxnID
108193	tgagccaccttgaacagtctgattc	X63747
108194	gccaccttgaacagtctgattcaga	X63747
108195	tctcatcaacgtctgcatacaggga	X63747
108196	catcaacgtctgcatacagggaaga	X63747
108197	tgtggcaaagccctcaaccataatt	X63747
108198	tggtgtagccactgtgggaaaacct	X63747
108199	ttctgtagcaagtccaatctgtcca	X63747
108200	tgtagcaagtccaatctgtccaagc	X63747
108201	agcaagtccaatctgtccaagcatc	X63747
108202	aatctgtccaagcatcagagagttc	X63747
108203	acgagccttgaggcttcctcagaca	M57890
108204	tcagacagccacctgcaagcagcac	M57890
108205	ggatccctatgctgaccccaacaca	M57890
108206	ctatgctgaccccaacacatgcaaa	M57890
108207	gggccctctcattgttcacaagaga	M57890
108208	aagccgcttcattcaagttggtgtg	M57890
108209	cttcattcaagttggtgtgattagc	M57890
108210	ctgcagagaccagaggcggcaacag	M57890
108211	agaccagaggcggcaacagctggta	M57890
108212	gcaacagctggtaccctcttatgcc	M57890
108213	ttatgcccgggacttccacatcaac	M57890
108214	gctgccctggctaaaggacaagctc	M57890
108215	caaggaacagttgctccctgtgaag	M57890
108216	caaagctctgtttgtatctgagcaa	M57890
108217	tctgtttgtatctgagcaagggaag	M57890
108218	gagcctgactcggaaggaggtgtac	M57890
108219	agatgctacaaaggcccaaggctat	M57890
108220	tacaaaggcccaaggctatgagaag	M57890
108221	ggtcaaagatgcctctgaggtggtc	M57890
108222	agatgcctctgaggtggtcactcca	M57890
108223	tatccctagaagcagctagctactc	W17412
108224	aagcagctagctactccaggtacgt	W17412
108225	gctctgtacagggctacatggaaca	W17412
108226	acatggaacaagcctccaagacggt	W17412
108227	tggaacaagcctccaagacggtcca	W17412
108228	cctccaagacggtccaggatgcgct	W17412
108229	cgctaagtagcgtgcaggagtccga	W17412
108230	tggacaatcacttcagatccctgaa	W17412
108231	acaatcacttcagatccctgaaagg	W17412
108232	atcacttcagatccctgaaaggcta	W17412
108233	gatccctgaaaggctactggagcaa	W17412
108234	ttactgacaagttcaccggcttctg	W17412
108235	ctagctactccaggtacgtaggtgc	W17412
108236	ctgacaagttcaccggcttctggga	W17412
108237	gctactccaggtacgtaggtgccat	W17412
108238	actccaggtacgtaggtgccatgca	W17412
108239	taggtgccatgcagccccggacgct	W17412
108240	tggcatctgcccgagctgaagaggt	W17412
108241	catctgcccgagctgaagaggtaga	W17412
108242	gatccttgctgctgggctctgtaca	W17412
108243	tgctgctgggctctgtacagggcta	W17412
108244	cagaccagttcctatgcagtgggat	M57891
108245	agttcctatgcagtgggatggagga	M57891
108246	taatacctctgagcgttctcactcc	M57891
108247	ctctgagcgttctcactcctggata	M57891
108248	tcactcctggatacataaatcttgg	M57891
108249	cgggacctctgtgccacctgtgaag	M57891
108250	ctctgtgccacctgtgaagcaagtc	M57891
108251	gccacctgtgaagcaagtctctctc	M57891
108252	tggatgacccgtgctccttttgctt	M57891
108253	gctccttttgctttcacacggaatt	M57891
108254	tttgctttcacacggaatttcccag	M57891
108255	ttcacacggaatttcccagttatgt	M57891
108256	tgcgcaagaaacctccacgtggtgt	M57891
108257	ttctgccaagggacttccacattag	M57891
108258	tggactttctgccactttaacatgg	M57891
108259	cactttaacatggtcactgactcct	M57891
108260	aacatggtcactgactcctttatta	M57891

TABLE 1

SEQ ID NO	sequence	DBAxnID
23053	caaggacttctgggagcaggaggtt	AA044561
23054	tatcttccatgtcaattggttccgg	AA044561
23055	caattggttccggagagatgaagca	AA044561
23056	tgaagcaggccgcttcctgtggcca	AA044561
23057	gtggccaggctttggagagaatgct	AA044561
23058	gaatgctcgtgtgctagactggatc	AA044561
23059	tgctcgtgtgctagactggatctgc	AA044561
23060	gctagactggatctgccgaagatta	AA044561
23061	agactggatctgccgaagattagaa	AA044561
23062	gcaaatactcaaagcttcaagtgat	U28068
23063	actcaaagcttcaagtgatatatgt	U28068
23064	ctacctgtgacctttcccatgctga	U28068
23065	cctgtgacctttcccatgctgaatt	U28068
23066	gtgacctttcccatgctgaattatt	U28068
23067	ttaaaaccatgcagcttcatcaatt	U28068
23068	aaaccatgcagcttcatcaattttt	U28068
23069	aagttattgcgttgccttagcactt	U28068
23070	ttattgcgttgccttagcacttctt	U28068
23071	ttgcgttgccttagcacttctttct	U28068
23072	tgccttagcacttctttcttctcta	U28068
23073	agcacttctttcttctctaattgta	U28068
23074	tcgttactgcctttggaagaaacag	U28068
23075	gatcaaagttcctgttcaccttatg	U28068
23076	atgtgtaccacgaatttcgtgtagc	U28068
23077	accacgaatttcgtgtagctgtatt	U28068
23078	ttcgtgtagctgtattcagatcgta	U28068
23079	ttttcaaccagcatttttactacctg	U28068
23080	tcaaccagcattttactacctgtga	U28068
23081	accagcattttactacctgtgacct	U28068
23082	ccagcgacacgcggccaccgtggag	W83889
23083	agcagccggctcagcatgtcgcggc	W83889
23084	agttcgtcggtgcccagcaggaagc	W83889
23085	tgcccagcaggaagcgggtgctgcc	W83889
23086	agcatgaagtcgcggtattgctcga	W83889
23087	cgcggtattgctcgatcgggtcgtg	W83889
23088	gcggtattgctcgatcgggtcgtgc	W83889
23089	cgcacagcggccggaacagcgaggc	W83889
23090	cacagcggccggaacagcgaggcca	W83889
23091	cgacgatcagcgcgatgaaggccca	W83889
23092	gacgatcagcgcgatgaaggcccac	W83889
23093	acgatcagcgcgatgaaggcccacg	W83889
23094	gcagccggctcagcatgtcgcggcc	W83889
23095	cagccggctcagcatgtcgcggccg	W83889
23096	agccggctcagcatgtcgcggccga	W83889
23097	cggctcagcatgtcgcggccgagtt	W83889
23098	gctcagcatgtcgcggccgagttcg	W83889
23099	tcagcatgtcgcggccgagttcgtc	W83889
23100	cagcatgtcgcggccgagttcgtcg	W83889
23101	agcatgtcgcggccgagttcgtcgg	W83889
23102	aaaggcggctcagcaccttgtatct	U20532
23103	tcagcaccttgtatcttgaagtctt	U20532
23104	aggatggagccttttctgagctagt	U20532
23105	gctaaaacttcctactgtgatgtga	U20532
23106	aattatagccaaagctagtatagca	U20532
23107	atcagtttcattttaactctcaagt	U20532
23108	tcttaggcaccatttgggagagttt	U20532
23109	taggcaccatttgggagagtttctg	U20532
23110	tttatactgttctcacttgttacag	U20532
23111	ctgttctcacttgttacagtcatag	U20532
23112	ttctcacttgttacagtcatagact	U20532
23113	ttatatgacatctggctaaaagcaa	U20532
23114	atcttgaagtcttcagcatgttacg	U20532
23115	ttgaagtcttcagcatgttacgtga	U20532
23116	aagtcttcagcatgttacgtgatga	U20532
23117	gaaagccttactctcccagtgaata	U20532
23118	ctcccagtgaatactctctgcagca	U20532
23119	ccagtgaatactctctgcagcaaac	U20532
23120	actctctgcagcaaaccagagatgg	U20532
65657	atcactaagaaactggccctccaga	AA062328
65658	ggatgcaggtccacatccagcagat	AA062328
65659	atgcaggtccacatccagcagattg	AA062328
65660	gcaggtccacatccagcagattggg	AA062328
65661	gcttctgaactccactcctcaacta	X75285
65662	ctccactcctcaactatggctacag	X75285
65663	gaaatctctgtgagttccaggccag	X75285
65664	aggccagcctggtctacgctgggag	X75285
65665	gcctggtctacgctgggagttctaa	X75285
65666	tggtctacgctgggagttctaacca	X75285
65667	tctacgctgggagttctaaccagcc	X75285
65668	ggagttctaaccagccagagctaca	X75285
65669	gttctaaccagccagagctacatag	X75285
65670	ctaaccagccagagctacatagaga	X75285
65671	agatcctatctcaacaaggaaaaat	X75285
65672	tcctatctcaacaaggaaaaatgaa	X75285
65673	cactcctcaactatggctacagctg	X75285
65674	tcctcaactatggctacagctgaca	X75285
65675	actatggctacagctgacattccat	X75285
65676	gctacagctgacattccattccttc	X75285
65677	acagctgacattccattccttcatc	X75285
65678	gacattccattccttcatccactgt	X75285
65679	ccattccttcatccactgttcct	X75285
65680	catccactgtgttcctcaattaaaa	X75285
65681	ggagtctccggctgatgattttgga	AA062346
65682	gtctccggctgatgattttggaagt	AA062346
65683	atgttcaaccaccaaagcagcagcc	AA062346
65684	ttcaaccaccaaagcagcagccaat	AA062346
65685	caccaaagcagcagccaatgatata	AA062346
65686	caaagcagcagccaatgatatatat	AA062346
65687	agtgtcacaccgaaaatgagataaa	AA062346
65688	taaagtccagggatcccatcagatg	AA062346
65689	agtccagggatcccatcagatgcag	AA062346
65690	ccagggatcccatcagatgcagaga	AA062346
65691	gggatcccatcagatgcagagaatg	AA062346
65692	atcccatcagatgcagagaatgtgg	AA062346
65693	gaggtagcacactcctgccatttga	AA062346
65694	gtagcacactcctgccatttgagcg	AA062346
65695	gcacactcctgccatttgagcgctt	AA062346
65696	cactcctgccatttgagcgcttgga	AA062346
65697	tcctgccatttgagcgcttggaagc	AA062346
65698	tgccatttgagcgcttggaagcaga	AA062346
65699	catttgagcgcttggaagcagaggc	AA062346
65700	aagatgttcaaccaccaaagcagca	AA062346
65701	gcctgcgaacctggagaaccgcttg	AA062347
65702	ctgcgaacctggagaaccgcttgca	AA062347
65703	cttgacggtcctgtattccattgag	AA062347
65704	tgacggtcctgtattccattgagcg	AA062347
65705	acggtcctgtattccattgagcgag	AA062347
65706	tcctgtattccattgagcgagaggt	AA062347
65707	ctgtattccattgagcgagaggtgg	AA062347
65708	gtattccattgagcgagaggtggtt	AA062347
65709	attccattgagcgagaggtggttgc	AA062347
65710	gaggactttgccgtgaatgagctag	AA062347
65711	ggactttgccgtgaatgagctagac	AA062347
65712	actttgccgtgaatgagctagacta	AA062347
65713	agaaccgcttgcacgcgtggtacga	AA062347
65714	aaccgcttgcacgcgtggtacgacg	AA062347
65715	ccgcttgcacgcgtggtacgacgcc	AA062347
65716	gcttgcacgcgtggtacgacgccga	AA062347
65717	ttgcacgcgtggtacgacgccgacc	AA062347
65718	acgcgtggtacgacgccgacctgag	AA062347
65719	acctcttgacggtcctgtattccat	AA062347
65720	ctcttgacggtcctgtattccattg	AA062347
65721	gcaaacagattccctccttcgagcg	AA062349
65722	ccttcgagcgctacatggcccgact	AA062349
65723	agtcagcctatatgcaccagctcct	AA062349
65724	cctatatgcaccagctcctgggcct	AA062349
108261	gtcactgactccttattaggtctg	M57891
108262	gaacttcctgtctaatacctctgag	M57891
108263	cctgtctaatacctctgagcgttct	M57891
108264	cccatgtcatccgtatcaacaagat	W10808
108265	ccatgtcatccgtatcaacaagatg	W10808
108266	cgaggctctgcgaacatcagagttc	W10808
108267	atcagagttcaagttccctgggcgc	W10808
108268	tcagagttcaagttccctgggcgcc	W10808
108269	aagttgggcatcaccaagtttactg	W10808
108270	gttgggcatcaccaagtttactgca	W10808
108271	ttgggcatcaccaagtttactgcag	W10808
108272	tgggcatcaccaagtttactgcaga	W10808
108273	atttgaagacactgttgctgacaaa	W10808
108274	agacactgttgctgacaaacggatc	W10808
108275	gacactgttgctgacaaacggatca	W10808
108276	catgtcatccgtatcaacaagatgt	W10808
108277	acactgttgctgacaaacggatcat	W10808
108278	tgtcatccgtatcaacaagatgtag	W10808
108279	gtcatccgtatcaacaagatgtagt	W10808
108280	tcatccgtatcaacaagatgtagtc	W10808
108281	atccgtatcaacaagatgtagtcct	W10808
108282	tgatcgaggctctgcgaacatcaga	W10808
108283	gatcgaggctctgcgaacatcagag	W10808
108284	tcgaggctctgcgaacatcagagtt	W10808
108285	tagctggactgcagccttctccgtg	X59520
108286	ttctccgtggaactcgccaagccag	X59520
108287	cctctaatgtctgacgttttgagta	X59520
108288	tctaatgtctgacgttttgagtatc	X59520
108289	taatgtctgacgttttgagtatcta	X59520
108290	ttattaagtcccaatgtgaaatctg	X59520
108291	attaagtcccaatgtgaaatctgtc	X59520
108292	tgtgaaatctgtcagcctagctgtg	X59520
108293	aaatctgtcagcctagctgtgtggt	X59520
108294	atctgtcagcctagctgtgtggtcg	X59520
108295	ctgtcagcctagctgtgtggtcgga	X59520
108296	gtcagcctagctgtgtggtcggaag	X59520
108297	ctccgtggaactcgccaagccagcg	X59520
108298	tcagcctagctgtgtggtcggaagg	X59520
108299	ccgtggaactcgccaagccagcgat	X59520
108300	tgtgctccgaccggacagggagccc	X59520
108301	gggactacatgggctggatggattt	X59520
108302	gactacatgggctggatggattttg	X59520
108303	gactacgaatacccatcgtagtggg	X59520
108304	tgaggaaacaaccacacatacgacc	X59520
108305	cgcctctaatgtctgacgttttgag	X59520
108306	gtgttgccttgtcctgttgtctctg	W13697
108307	ttgccttgtcctgttgtctctgtac	W13697
108308	attctttgtatgcacatattcaatt	W13697
108309	atgcacatattcaattctactgatc	W13697
108310	cacatattcaattctactgatcatc	W13697
108311	atattcaattctactgatcatctgg	W13697
108312	aattctactgatcatctggtcagct	W13697
108313	actgatcatctggtcagctaacata	W13697
108314	gatcatctggtcagctaacataagt	W13697
108315	catctggtcagctaacataagtacg	W13697
108316	cataagtacggtcttcatagtgaac	W13697
108317	tcatagtgaacctccttgaacagaa	W13697
108318	aggactaacagtcatgcttcttttc	W13697
108319	catagtgaacctccttgaacagaag	W13697
108320	actaacagtcatgcttcttttcctc	W13697
108321	aacagtcatgcttcttttcctcttc	W13697
108322	agattctaaacacttattacagtga	W13697
108323	ttctaaacacttattacagtgacgc	W13697
108324	taaacacttattacagtgacgccca	W13697
108325	acacttattacagtgacgcccaata	W13697
108326	attacagtgacgcccaatacccatt	W13697
108327	caacatcggatcctgctctgattac	X04072
108328	cggatcctgctctgattacccatcg	X04072

TABLE 1

SEQ ID NO	sequence	DBAxnID
23121	ctctgcagcaaaccagagatggcaa	U20532
23122	tggacgtgggccggagatgaactcc	AA123385
23123	agatgaactccctgactgggctgcg	AA123385
23124	gaccctaaggacatcattggcagag	AA123385
23125	aaggacatcattggcagaggagtga	AA123385
23126	acatcattggcagaggagtgagctc	AA123385
23127	atcattggcagaggagtgagctctg	AA123385
23128	agtgagctctgtggtccgccgctgt	AA123385
23129	tccgccgctgtgtccatcgagctac	AA123385
23130	cgccgctgtgtccatcgagctaccg	AA123385
23131	cgggatttcgcggttttatgagatg	AA123385
23132	ggatttcgcggttttatgagatgca	AA123385
23133	atttcgcggttttatgagatgcaca	AA123385
23134	atgaactccctgactgggctgcggc	AA123385
23135	gaactccctgactgggctgcggcaa	AA123385
23136	actccctgactgggctgcggcaaag	AA123385
23137	cctgactgggctgcggcaaagagtt	AA123385
23138	agaagtacgaccctaaggacatcat	AA123385
23139	aagtacgaccctaaggacatcattg	AA123385
23140	gtacgaccctaaggacatcattggc	AA123385
23141	acgaccctaaggacatcattggcag	AA123385
23142	cataccgtgcactccagggagcact	U24493
23143	gtgcactccagggagcactgatgat	U24493
23144	tatttaacctctcaacatatctggt	U24493
23145	acctctcaacatatctggttcccag	U24493
23146	caacatatctggttcccagacactg	U24493
23147	ttcccagacactgggtaccaaagat	U24493
23148	cgatcattcacaaattcctttacac	U24493
23149	ttcacaaattcctttacacagccga	U24493
23150	aattcctttacacagccgagtacag	U24493
23151	gtgacagctcttacttcagcagcga	U24493
23152	gctcttacttcagcagcgatgaatc	U24493
23153	acttcagcagcgatgaatcggattg	U24493
23154	gattccaggtccctttccagctgct	U24493
23155	ctttccagctgctgacctcacttat	U24493
23156	agctgctgacctcacttatggacat	U24493
23157	ttgacacgctcatgaccaaatggag	U24493
23158	gcaccaaggctggcactgggggatc	U24493
23159	ggggatcctcaggctatcattacct	U24493
23160	cctcaggctatcattacctgcgttc	U24493
23161	attacctgcgttcaactgtgagcga	U24493
23162	aagttgcagtgagctccaggccatg	AA032514
23163	gagctccaggccatgggaactggtc	AA032514
23164	gctctggtgccagagatgtaactgg	AA032514
23165	gatgtaactgggtcccttgtcccag	AA032514
23166	acggtgacttccagcgtcagaaggc	AA032514
23167	ggtgacttccagcgtcagaaggcct	AA032514
23168	tgacttccagcgtcagaaggcctgg	AA032514
23169	acttccagcgtcagaaggcctggta	AA032514
23170	ccagcgtcagaaggcctggtaggat	AA032514
23171	agcgtcagaaggcctggtaggattg	AA032514
23172	cgtcagaaggcctggtaggattgac	AA032514
23173	ttgacatggcctcagctccttctgt	AA032514
23174	tccaggccatgggaactggtccaga	AA032514
23175	catggcctcagctccttctgtgact	AA032514
23176	ccatgggaactggtccagagagtta	AA032514
23177	cttcctcctctatttcttcacctat	AA032514
23178	tctatttcttcacctatgctgttgg	AA032514
23179	tatttcttcacctatgctgttggca	AA032514
23180	tcttcacctatgctgttggcaggag	AA032514
23181	ttcacctatgctgttggcaggagtg	AA032514
23182	gggctctggtgccagagatgtaact	AA032514
23183	tgtccctaagggaatacagagagat	L10908
23184	ctccaccatctgggaacccagtgtt	L10908
23185	ttctcttggggtagagtgctatcaa	L10908
23186	ctatcaatttctgtagacttagatt	L10908
23187	tttctccttccatcatgtgggtacc	L10908
23188	cttccatcatgtgggtaccagagat	L10908
65725	atatgcaccagctcctgggcctcaa	AA062349
65726	tgcaccagctcctgggcctcaatct	AA062349
65727	agctcctgggcctcaatctcctctt	AA062349
65728	tacctgccaaggacatccagacgac	AA062349
65729	ctgccaaggacatccagacgactgt	AA062349
65730	aggacatccagacgactgtctgcat	AA062349
65731	acatccagacgactgtctgcatcaa	AA062349
65732	tccagacgactgtctgcatcaaaca	AA062349
65733	gctacatggcccgactcaaatgcta	AA062349
65734	ccagacgactgtctgcatcaaacac	AA062349
65735	acatggcccgactcaaatgctacta	AA062349
65736	tggcccgactcaaatgctactactg	AA062349
65737	gactcaaatgctactactgtgatga	AA062349
65738	tcaaatgctactactgtgatgacaa	AA062349
65739	aatgctactactgtgatgacaaaga	AA062349
65740	agcagcttcctgagtcagcctatat	AA062349
65741	ctgagtcagcctatatgcaccagct	AA062349
65742	tgacgctgcagcagcagaactcact	X76088
65743	agcagaactcactggagcaatgggc	X76088
65744	tggccacctcactgaatcccttgga	X76088
65745	cctcactgaatcccttggaccctga	X76088
65746	ccttggaccctgacaaagatgaaga	X76088
65747	ccgcactaggccctgaagctctgga	X76088
65748	ctgaagctctggagccaccagcgaa	X76088
65749	agccaccagcgaaactggcgcggac	X76088
65750	cagcgaaactggcgcggactgacac	X76088
65751	aactggcgcggactgacactcgtgg	X76088
65752	cgcggactgacactcgtggcctctt	X76088
65753	ctcgtggcctctttgtgcaggccct	X76088
65754	gccaggtgctcaagccctaccaggg	X76088
65755	tgctcaagccctaccagggcagttc	X76088
65756	aggcggccaagctcttcctcctcaa	X76088
65757	acctgatcgagcacagagtggccca	X76088
65758	tcgagcacagagtggcccaggccaa	X76088
65759	acagagtggcccaggccaagggcga	X76088
65760	agaccccaatcgcagtcatgggaga	X76088
65761	caatcgcagtcatgggagagtttgc	X76088
65762	atgcatctaatggcctctcatggac	X76089
65763	ccaggcacacaccctggatacatgc	X76089
65764	caagtagccacaggggtcagcacca	X76089
65765	gccacaggggtcagcaccatatcca	X76089
65766	ggggtcagcaccatatccacgcctc	X76089
65767	gcagtgcctgagcccctgcagtctt	X76089
65768	ccccaaactagccatgcttgctgct	X76089
65769	ccctagaccatgagatctctgcaga	X76089
65770	agatctctgcagacaaatgaacacc	X76089
65771	caatgcctattgggccctgagttct	X76089
65772	ctattgggccctgagttctagaggc	X76089
65773	ccctaacatgttacaccttgctgct	X76089
65774	ctaacggcatctcatctcatcctgg	X76089
65775	gctgctgtcgtcatgttgagaattc	X76089
65776	gcatctcatctcatcctggacaggt	X76089
65777	ctccaagcagggccagtcaagccca	X76089
65778	ccagtcaagcccagatgatcgaccc	X76089
65779	agatgatcgacccatctgcttgact	X76089
65780	tcgacccatctgcttgactatagac	X76089
65781	catctgcttgactatagactttctg	X76089
65782	cttgactatagactttctgtccaat	X76089
65783	ttatatttccagatagagagttcag	U05245
65784	agttcagaacaccatgctctaaagc	U05245
65785	cattttctggtctccctgcaacacg	U05245
65786	gtctccctgcaacacgtccatcgga	U05245
65787	tccctgcaacacgtccatcggaaaa	U05245
65788	aaagtctggtgcttagagagggtgc	U05245
65789	agggtgccattgtctcttgtatata	U05245
65790	gtgccattgtctcttgtatatacgg	U05245
65791	ccattgtctcttgtatatacggtca	U05245
65792	ttgtaaatgcctgtccaacaataaa	U05245
108329	gacaacccaactgacatcttcctat	X04072
108330	ccaactgacatcttcctatggaaat	X04072
108331	gacatcttcctatggaaatttgccc	X04072
108332	ctctccacaaaagaagtagaatgtt	X04072
108333	ctcagtgccccgagaatgttatcta	X04072
108334	cattaatagctccctacagaacttt	X04072
108335	tagctccctacagaactttcataca	X04072
108336	cctacagaactttcatacagttgca	X04072
108337	agttgcacccaagttgctgatgtgt	X04072
108338	gttgctgatgtgttctctagaatag	X04072
108339	ctgctctgattacccatcgtcccta	X04072
108340	gagtccaggattgctctaggacagg	X04072
108341	gctctaggacaggtggcaggatctg	X04072
108342	actggcttcatatccattcacaagg	X04072
108343	ttcatatccattcacaaggaccagc	X04072
108344	ccttggcaggccaatggaacacctc	X04072
108345	aatggaacacctcttctgccaccat	X04072
108346	ccaccatgctgtgacaacccaactg	X04072
108347	ccatccagactataatcctgatgac	M18459
108348	tccagactataatcctgatgaccgt	M18459
108349	aagttcttacaacagagctaatgag	M18459
108350	agctgcaggcatcgtctcctacggg	M18459
108351	tgcaggcatcgtctcctacgggcaa	M18459
108352	cgtctcctacgggcaaactgatgga	M18459
108353	ctcctacgggcaaactgatggatca	M18459
108354	tgatggatcagctccacaagtcttc	M18459
108355	tccacaagtcttcacaagagttttg	M18459
108356	aaactagatcctgatctgaccagcc	M18459
108357	ctagatcctgatctgaccagccatc	M18459
108358	gatctgaccagccatcttccccata	M18459
108359	taatcctgatgaccgttctaatgac	M18459
108360	tcctgatgaccgttctaatgacatc	M18459
108361	tgatgaccgttctaatgacatcatg	M18459
108362	caatgctcatgtgaagccaggggat	M18459
108363	aacactgcacgaagttaagctgaca	M18459
108364	gtgtgagtcccagttccaaagttct	M18459
108365	gttccaaagttcttacaacagagct	M18459
108366	ccaaagttcttacaacagagctaat	M18459
108367	ccctcgacctggacattcggcacga	W11169
108368	ctcgacctggacattcggcacgagg	W11169
108369	ccggcctcacactagtgtcgcatgt	W11169
108370	cctcacactagtgtcgcatgtccac	W11169
108371	tcacactagtgtcgcatgtccacta	W11169
108372	acactagtgtcgcatgtccactatc	W11169
108373	actagtgtcgcatgtccactatcca	W11169
108374	ctttgctgatgcaactaagggccga	W11169
108375	tactcccggcacgacttgaggacta	W11169
108376	ctcccggcacgacttgaggactaca	W11169
108377	cccggcacgacttgaggactacatt	W11169
108378	aggactacattcatataaggatcca	W11169
108379	cgacctggacattcggcacgaggct	W11169
108380	ataaggatccagcagcgcaacggca	W11169
108381	ctggacattcggcacgaggcttcct	W11169
108382	ggcttccgcgcttcattgatttccg	W11169
108383	cgcgcttcattgatttccgtttctc	W11169
108384	cgcttcattgatttccgtttctcgc	W11169
108385	ccgctgcagcctcctgacacggtga	W11169
108386	tgcagcctcctgacacggtgatccg	W11169
108387	gaattctatcctctcaccggcctca	W11169
108388	acttcaccaacatgtttgctacttg	L05573
108389	tgtttgctacttggtctccttcaca	L05573
108390	attctctagacccaccattactcac	L05573
108391	caccattactcactcgctatcttcg	L05573
108392	tactcactcgctatcttcgaattca	L05573
108393	acccccagatctgggagcaccaaat	L05573
108394	gggagcaccaaattgctctgaggct	L05573
108395	accaaattgctctgaggcttgagat	L05573
108396	ttctaggatgtgaggcccagcagca	L05573

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
23189	taagtcaacagccatggcagcaagc	L10908	65793	taaatgcctgtccaacaataaaagt	U05245	108397	aatactgaggtagcctctgcatcac	L05573
23190	aacagccatggcagcaagcaccttt	L10908	65794	atgcctgtccaacaataaaagtact	U05245	108398	ccttcctcagctcaaagattgtctt	L05573
23191	catggcagcaagcacctttacaagc	L10908	65795	tctatgccctttgtaccactgcact	U05245	108399	cactatgaccatggcaactctttat	L05573
23192	agcaagcacctttacaagctgagca	L10908	65796	ccctttgtaccactgcactgttcgt	U05245	108400	ggtctccttcacaagctcgacttca	L05573
23193	caccttacaagctgagcaatcaca	L10908	65797	ccactgcactgttcgtaacatctcg	U05245	108401	aatctctctttaccagcatgtttgt	L05573
23194	ctgagcaatcacactggcccctaat	L10908	65798	tgttcgtaacatctcggggtcgatt	U05245	108402	agttccttatttccagcagtcaaga	L05573
23195	catctgggaacccagtgttaaatct	L10908	65799	gtcgattgcgtccggatgggaaact	U05245	108403	ttatttccagcagtcaagatggcca	L05573
23196	taaatctcatggacctttagcaaag	L10908	65800	tgcgtccggatgggaaactgaagca	U05245	108404	gtcaagatggccatcactggactca	L05573
23197	tcatggacctttagcaaagacacca	L10908	65801	tagtcacattttctggtctccctgc	U05245	108405	ggaatcaggactcatccacacctat	L05573
23198	acctttagcaaagacaccatattca	L10908	65802	tcacattttctggtctccctgcaac	U05245	108406	catccacacctatgatgaattctct	L05573
23199	gacaccatattcaaaccaacatata	L10908	65803	gcatcagccatgtgctgcggggctc	AA062236	108407	tgatgaattctctagacccaccatt	L05573
23200	atattcaaaccaacatatatgtgtt	L10908	65804	tcctctaccaggccctgggctggca	AA062236	108408	caaagtccccgatgccagtgctgcc	W10855
23201	acacacacatgcacatggacacaca	L10908	65805	tgccagaagccttgcttgacatcat	AA062236	108409	aaagtccccgatgccagtgctgcca	W10855
23202	aatggattctcttggggtagagtgc	L10908	65806	cagaagccttgcttgacatcatcac	AA062236	108410	ggctgcccgcaaggagccagctaag	W10855
23203	agccggctatttgaagggagcgcgc	AA051276	65807	aagccttgcttgacatcatcaccaa	AA062236	108411	ctgcccgcaaggagccagctaagac	W10855
23204	atggagcgcttcagagggaagagtt	AA051276	65808	ccttgcttgacatcatcaccaactg	AA062236	108412	gcccgcaaggagccagctaagactc	W10855
23205	tgaagaagtctccacagcagctgcg	AA051276	65809	tgcttgacatcatcaccaactgtgg	AA062236	108413	cccgcaaggagccagctaagactca	W10855
23206	agaagtctccacagcagctgcggct	AA051276	65810	ttgacatcatcaccaactgtggctc	AA062236	108414	gagccagctaagactcagcctatgg	W10855
23207	gaagtctccacagcagctgcggctc	AA051276	65811	ggaccctgccggagctgattacaca	AA062236	108415	agccagctaagactcagcctatggt	W10855
23208	tgatggccaaggtgtcggtgctgaa	AA051276	65812	accctgccggagctgattacacagt	AA062236	108416	ccagctaagactcagcctatggtcg	W10855
23209	gatggccaaggtgtcggtgctgaat	AA051276	65813	ccctgccggagctgattacacagtt	AA062236	108417	cagctaagactcagcctatggtcgc	W10855
23210	tggccaaggtgtcggtgctgaatgt	AA051276	65814	cctgccggagctgattacacagttt	AA062236	108418	agctaagactcagcctatggtcgcg	W10855
23211	atgcagtgaggccctgtctgacgac	AA051276	65815	ctcgatttgctcatctgcccctgct	AA062236	108419	ctaagactcagcctatggtcgcgac	W10855
23212	gtctgacgacctggagtggaagatc	AA051276	65816	tgattacacagtttgacctgacgcg	AA062236	108420	aagtccccgatgccagtgctgccat	W10855
23213	tctgacgacctggagtggaagatca	AA051276	65817	tcctcaacagggatggtagcaagct	AA062236	108421	taagactcagcctatggtcgcgaca	W10855
23214	ctgacgacctggagtggaagatcat	AA051276	65818	gtagcaagctgtctaagaggcaagg	AA062236	108422	ccgatgccagtgctgccatgcccag	W10855
23215	cccttcttctctgtcgcaagtcact	AA051276	65819	acattttcctggaacattttgctgc	AA062236	108423	cgatgccagtgctgccatgcccagc	W10855
23216	ccttcttctctgtcgcaagtcactg	AA051276	65820	ttttcctggaacattttgctgccac	AA062236	108424	gatgccagtgctgccatgcccagcc	W10855
23217	cttcttctctgtcgcaagtcactgt	AA051276	65821	ttgctgccaccggttttctgccaga	AA062236	108425	ccctgagcctgaggagttgagcagc	W10855
23218	tcttctctgtcgcaagtcactgtga	AA051276	65822	gttttctgccagaagccttgcttga	AA062236	108426	aggctcactgggaagcgatggctgc	W10855
23219	ttctctgtcgcaagtcactgtgaag	AA051276	65823	ttctgccagaagccttgcttgacat	AA062236	108427	ggctcactgggaagcgatggctgcc	W10855
23220	ctctgtcgcaagtcactgtgaagaa	AA051276	65824	gttactcatgccttgaggacaacag	AA062237	108428	tcactgggaagcgatggctgcccgc	W10855
23221	tctgtcgcaagtcactgtgaagaag	AA051276	65825	catgccttgaggacaacagagtacc	AA062237	108429	agcccccattcttcagtgctcagca	M81591
23222	ctgtcgcaagtcactgtgaagaagt	AA051276	65826	tacagtcgcttaaatctcaacaaca	AA062237	108430	tcagtgctcagcaatccaactcatt	M81591
23223	cctcacctacacttgcaagaaggga	D28599	65827	agtcgcttaaatctcaacaacaccg	AA062237	108431	tttcctgggacctagcaggtggaca	M81591
23224	tgccaagacctttggaaagatgaaa	D28599	65828	cgcttaaatctcaacaacaccgtgc	AA062237	108432	gtggacagcatctcaatggaattaa	M81591
23225	ctcatccgcaaaggacaattctata	D28599	65829	ttaaatctcaacaacaccgtgctgt	AA062237	108433	aagcatacagagcctatcagaatta	M81591
23226	atcaaaacatgagcatcgctggagc	D28599	65830	aatctcaacaacaccgtgctgtcca	AA062237	108434	gacttgacctcaatcacaaacaact	M81591
23227	aaccaggcgctgatccttaaaatgg	D28599	65831	ctcaacaacaccgtgctgtccaaaa	AA062237	108435	cctaccggccagagtatgcagtcaa	M81591
23228	gcgaacatgtgcttcactcatcatt	D28599	65832	aagctcacgtggtttgtcaatgaag	AA062237	108436	cagatgtacacagtcctggaaattt	M81591
23229	atgtgcttcactcatcatttcagcc	D28599	65833	tttcctacagttcgtggagttctga	AA062237	108437	tacacagtcctggaaatttcaggat	M81591
23230	ttcactcatcatttcagccaaagtc	D28599	65834	cctacagttcgtggagttctgagaa	AA062237	108438	actctgccgagtttgcagatgcctt	M81591
23231	ttcagccaaagtcctgcctttccgt	D28599	65835	acagttcgtggagttctgagaagag	AA062237	108439	ttgcagatgcctttcattgccgcaa	M81591
23232	tcctatcacctcaagaagaattaga	D28599	65836	acaacagagtaccacgaccgagatg	AA062237	108440	ttcattgccgcaagaattcatacat	M81591
23233	attatgggactgccgtctggtcatt	D28599	65837	acagagtaccacgaccgagatgaac	AA062237	108441	ctcagcaatccaactcattgaacta	M81591
23234	ggactgccgtctggtcatttggggt	D28599	65838	gagtaccacgaccgagatgaacaat	AA062237	108442	aatccaactcattgaactatggggg	M81591
23235	gatgaaaccacgctatgaaatcaac	D28599	65839	taccacgaccgagatgaacaatttt	AA062237	108443	actcattgaactatgggggcatcgg	M81591
23236	ctatgaaatcaactccttgattaga	D28599	65840	ataaggaaaccatacatctgggagt	AA062237	108444	tgaactatgggggcatcggcatggt	M81591
23237	atatcactgcaaagatggtttcatt	D28599	65841	aggaaaccatacatctgggagtaca	AA062237	108445	aaatcacacatggatttgatgacaa	M81591
23238	tttcattcagcgacaccttccaact	D28599	65842	aaaccatacatctgggagtacagtc	AA062237	108446	gagacctcgttgactggtggacgca	M81591
23239	tcagcgacaccttccaactatccgg	D28599	65843	ccatacatctgggagtacagtcgct	AA062237	108447	ttaaagaccaatcccagtgtatggt	M81591
23240	aacctgcatgaacccatctgcatac	D28599	65844	tcgccagccgtcagcatgatgagct	AA062419	108448	accaatcccagtgtatggtatacca	M81591
23241	catgaacccatctgcataccaaagg	D28599	65845	cgccagccgtcagcatgatgagctg	AA062419	108449	tagtcacaattcactgcgggatgct	M34510
23242	cccatctgcataccaaaggacttat	D28599	65846	tgatgagctgccgggacctcgtgag	AA062419	108450	caattcactgcgggatgctgcaggc	M34510
23243	actgaggccgtgactcagcaatgaa	AA144078	65847	ggagctgttctccgagatctaggag	AA062419	108451	taggaaccctagcccagatgagctg	M34510
23244	ctgaggccgtgactcagcaatgaag	AA144078	65848	gctgttctccgagatctaggagatg	AA062419	108452	cccagatgagctgccccaagtgggg	M34510
23245	tctatgagctctgtgatgtctattt	AA144078	65849	ctgttctccgagatctaggagatgc	AA062419	108453	cgtagtcaccgccggagctccatca	M34510
23246	ctatgagctctgtgatgtctatttg	AA144078	65850	tgttctccgagatctaggagatgcg	AA062419	108454	cggagctccatcatcccaagcagtg	M34510
23247	tatgagctctgtgatgtctatttgg	AA144078	65851	gttctccgagatctaggagatgcgg	AA062419	108455	tccatcatcccaagcagtggccttg	M34510
23248	atgagctctgtgatgtctatttgga	AA144078	65852	ttctccgagatctaggagatgcggc	AA062419	108456	agcagtggccttgtcaggaactctg	M34510
23249	agctctgtgatgtctatttggagtg	AA144078	65853	tctccgagatctaggagatgcggcg	AA062419	108457	ggccttgtcaggaactctggctttg	M34510
23250	gctctgtgatgtctatttggagtgt	AA144078	65854	tggtcacccgtgtggagattgtcat	AA062419	108458	gtcaggaactctggctttgctccta	M34510
23251	ctctgtgatgtctatttggagtgtc	AA144078	65855	ggtcacccgtgtggagattgtcatg	AA062419	108459	actcctgaaagttgtccatctgtgc	M34510
23252	tctgtgatgtctatttggagtgtct	AA144078	65856	ccagccgtcagcatgatgagctgcc	AA062419	108460	gaaagttgtccatctgtgctcacaa	M34510
23253	gcccttcatgcccttgtcacagag	AA144078	65857	cagccgtcagcatgatgagctgccg	AA062419	108461	tgcaggcgctccgagttgtgactgg	M34510
23254	cccttcatgcccttgtcacagagg	AA144078	65858	agccgtcagcatgatgagctgccgg	AA062419	108462	cgctccgagttgtgactggcccagt	M34510
23255	gaggccgtgactcagcaatgaaggc	AA144078	65859	gccgtcagcatgatgagctgccggg	AA062419	108463	gcccagtcagctaaactcgctcaat	M34510
23256	agctattccagagactgccccggcg	AA144078	65860	tcagcatgatgagctgccgggacct	AA062419	108464	gctcaatctgtctttcactgggctg	M34510

TABLE 1

SEQ ID NO	sequence	DBAxnID
23257	aggccgtgactcagcaatgaaggct	AA144078
23258	ggccgtgactcagcaatgaaggctt	AA144078
23259	gccgtgactcagcaatgaaggcttc	AA144078
23260	ccgtgactcagcaatgaaggcttcc	AA144078
23261	caatgaaggcttccaggcttacgat	AA144078
23262	atgaaggcttccaggcttacgattt	AA144078
23263	tgaaggcttccaggcttacgatttc	AA144078
23264	ttccaaattcagggacatgcactag	D10584
23265	cagggacatgcactagccaggcttc	D10584
23266	acacatgtggatgctgcaggatcta	D10584
23267	caggcattgctaagggctggtgagc	D10584
23268	ccctgtaggtctccattctcataaa	D10584
23269	tgtaggtctccattctcataaatga	D10584
23270	aggtctccattctcataaatgatga	D10584
23271	agctcagactcagaatttggcccct	D10584
23272	gactcagaatttggccctttagat	D10584
23273	tcagaatttggccctttagatcag	D10584
23274	gaatttggccctttagatcagaga	D10584
23275	acattagggttcctagtggatgtgg	D10584
23276	ggacatgcactagccaggcttctct	D10584
23277	gcactagccaggcttctctgtgtcc	D10584
23278	ctctgtgtcctggggccatttgagg	D10584
23279	ccatttgaggagccacagtgtggaa	D10584
23280	atctccccaaaataaggcagagttg	D10584
23281	gcagtctatgctgtcacacatgtgg	D10584
23282	gtctatgctgtcacacatgtggatg	D10584
23283	gtcacacatgtggatgctgcaggat	D10584
23284	atgcattgctagtgtcacagccttt	U27838
23285	tgctagtgtcacagcctttggttat	U27838
23286	aatttgtgctagcagatttgagcac	U27838
23287	ctagctctgcgtgcctataaactga	U27838
23288	ctgcgtgcctataaactgaatgctg	U27838
23289	aaactgaatgctgcttgtcccattc	U27838
23290	gcttgtcccattccattttatgtca	U27838
23291	ttccaagccggtatcagctactcaa	U27838
23292	ttctcagatattcatcattagacaa	U27838
23293	tttgtagcctactaaaactgctgag	U27838
23294	gcctactaaaactgctgaggctgtt	U27838
23295	tgaacattccacattcaaaagtttt	U27838
23296	tgtcacagcctttggttatgtctag	U27838
23297	tgtctagtagctgtttctgaagtat	U27838
23298	ctcctttcctcaaggagacacttat	U27838
23299	tcctcaaggagacacttatgttcaa	U27838
23300	tgattctttgccttaggtgcataga	U27838
23301	tttgccttaggtgcatagagagtag	U27838
23302	acttagccatatgttctgtgttgga	U27838
23303	ccatatgttctgtgttggaatttgt	U27838
23304	cttcagaggtgctccctgaggagcc	W70922
23305	ccgaaccctgagcctggcactgcag	W70922
23306	cagccctgatggtggagttttatgc	W70922
23307	ctgcaaagaactagctcccgagtac	W70922
23308	ctcccgagtacagcaaggcggctgc	W70922
23309	cgagtacagcaaggcggctgccctg	W70922
23310	tgccctgctggcggctgagtcagct	W70922
23311	ccctgctggcggctgagtcagctgt	W70922
23312	gtcagctgtggtcaccttggccaag	W70922
23313	tgtggtcaccttggccaaggtggat	W70922
23314	tggccctgcggaaccggagctgacc	W70922
23315	cctgcggaaccggagctgaccagag	W70922
23316	gaaccctgagcctggcactgcagga	W70922
23317	cctgagcctggcactgcaggagcat	W70922
23318	tgagcctggcactgcaggagcattc	W70922
23319	agcctggcactgcaggagcattcag	W70922
23320	cctggcactgcaggagcattcagcc	W70922
23321	agcattcagccctgatggtggagtt	W70922
23322	cattcagccctgatggtggagtttt	W70922
23323	ttcagccctgatggtggagttttat	W70922
23324	atttctatacaaagtgaaaatctt	U27462

SEQ ID NO:	sequence	DBAxnID
65861	cagcatgatgagctgccgggacctc	AA062419
65862	agcatgatgagctgccgggacctcg	AA062419
65863	atgatgagctgccgggacctcgtga	AA062419
65864	tgaagttgtgccatccttcatcaac	Z27088
65865	tgtgccatccttcatcaacaaagat	Z27088
65866	ttctgttgttagcttggaaggcttt	Z27088
65867	aactctccatgatagactgggtgaa	Z27088
65868	cagtcctccagggcttaaatacttg	Z27088
65869	gagccagcaatgttgccacgtcggt	Z27088
65870	ttgccacgtcggttgtagcagaaga	Z27088
65871	tgctaaactctattgctgatacgga	Z27088
65872	actctattgctgatacggagctaat	Z27088
65873	agtccagtgttcacatgcattcttg	Z27088
65874	gtgttcacatgcattcttgctacct	Z27088
65875	attcttgctacctggttgatggcct	Z27088
65876	atccttcatcaacaaagatgcagag	Z27088
65877	gacgctgaaatgccttccaaatttg	Z27088
65878	agagctcaaggcagtactgtctgag	Z27088
65879	agtactgtctgaggctcaggcctcg	Z27088
65880	agagctacaacacgcacctgtgttg	Z27088
65881	acaacacgcacctgtgttgagcgat	Z27088
65882	cgcacctgtgttgagcgattctgtt	Z27088
65883	tgtgttgagcgattctgttgttagc	Z27088
65884	tgagctgagccttcacggtgcgctt	AA062459
65885	agctgagccttcacggtgcgcttcc	AA062459
65886	cgaagccccactgatggcgtggaat	AA062459
65887	gaagccccactgatggcgtggaatg	AA062459
65888	aagacctgtgaggctcaacgtgaga	AA062459
65889	agacctgtgaggctcaacgtgagag	AA062459
65890	gacctgtgaggctcaacgtgagagt	AA062459
65891	acctgtgaggctcaacgtgagagtg	AA062459
65892	cctgtgaggctcaacgtgagagtga	AA062459
65893	tgtgaggctcaacgtgagagtgaag	AA062459
65894	atggagaccgctgctccctgctgac	AA062459
65895	gtctgttgcgcggtgactggcatgc	AA062459
65896	ctgagccttcacggtgcgcttcctg	AA062459
65897	tgagccttcacggtgcgcttcctgg	AA062459
65898	gagccttcacggtgcgcttcctgga	AA062459
65899	ctggacagcctgcgaagccccactg	AA062459
65900	ggacagcctgcgaagccccactgat	AA062459
65901	gacagcctgcgaagccccactgatg	AA062459
65902	acagcctgcgaagccccactgatgg	AA062459
65903	cctgcgaagccccactgatggcgtg	AA062459
65904	cagtctgccatggactcctgttgtg	AA062460
65905	gtctgccatggactcctgttgtgat	AA062460
65906	atcttgcacatcgcaggacgtctag	AA062460
65907	cttgcacatcgcaggacgtctagcg	AA062460
65908	tgcacatcgcaggacgtctagcggt	AA062460
65909	cacatcgcaggacgtctagcggtca	AA062460
65910	tcgcaggacgtctagcggtcagcag	AA062460
65911	aggacgtctagcggtcagcaggaca	AA062460
65912	gactgaccttcggcgtaagtatcgc	AA062460
65913	ctgaccttcggcgtaagtatcgctg	AA062460
65914	gcgtaagtatcgctgctctgtttga	AA062460
65915	gtaagtatcgctgctctgtttgacg	AA062460
65916	ctgccatggactcctgttgtgatct	AA062460
65917	taagtatcgctgctctgtttgacgg	AA062460
65918	catggactcctgttgtgatctacta	AA062460
65919	tggactcctgttgtgatctactagg	AA062460
65920	gactcctgttgtgatctactaggat	AA062460
65921	ctcctgttgtgatctactaggatta	AA062460
65922	aggccggcatcttgcacatcgcagg	AA062460
65923	gccggcatcttgcacatcgcaggac	AA062460
65924	cggcatcttgcacatcgcaggacgt	AA062460
65925	cactgccaaggggatgctgccagac	U27315
65926	attatcgtgagctggatgattgcgc	U27315
65927	tcccacagaaaacaggctagcttat	U27315
65928	caggctagcttatcatacttgttca	U27315

SEQ ID NO:	sequence	DBAxnID
108465	tttcactgggctgaagcaggtacct	M34510
108466	gctgccagccaagctcagcgtgctg	M34510
108467	agccaagctcagcgtgctggatctc	M34510
108468	gctcagcgtgctggatctcagttac	M34510
108469	cgccgtctggctgttcctagccgac	W10926
108470	ttctctttacaaccccactgacaca	W10926
108471	cagaacacgagggcactcctgagcg	W10926
108472	gagagtgacccggaagcagaagtgt	W10926
108473	agagtgacccggaagcagaagtgtt	W10926
108474	tgacccggaagcagaagtgttcctt	W10926
108475	cagaagtgttccttgccgtggagtg	W10926
108476	agaagtgttccttgccgtggagtgc	W10926
108477	gaagtgttccttgccgtggagtgct	W10926
108478	aagtgttccttgccgtggagtgctg	W10926
108479	agtgttccttgccgtggagtgctgg	W10926
108480	agcagcgaccacagcgggagaagca	W10926
108481	caaccccactgacacagaacacgag	W10926
108482	accccactgacacagaacacgaggg	W10926
108483	ccccactgacacagaacacgagggc	W10926
108484	ccactgacacagaacacgagggcac	W10926
108485	cactgacacagaacacgagggcact	W10926
108486	ctgacacagaacacgagggcactcc	W10926
108487	tgacacagaacacgagggcactcct	W10926
108488	acacagaacacgagggcactcctga	W10926
108489	cactcaaattctctgaagccggccc	M62553
108490	ctgaagccggcccttgtgtgggata	M62553
108491	ctggcaacactacctgagtgcctgc	M62553
108492	acactacctgagtgcctgctcaggg	M62553
108493	tgcctgctcaggggttcagcttct	M62553
108494	agcttctgaccatatgtagacacca	M62553
108495	accccagctctgagtttacacatca	M62553
108496	cttcgcccaggtgtgccatttccct	M62553
108497	ctgtgaacctactcaagtgctgctc	M62553
108498	acctactcaagtgctgctctcaata	M62553
108499	tcaagtgctgctctcaataaatctg	M62553
108500	gctgctctcaataaatctgccttta	M62553
108501	ccagccctgagtcacccagaggaag	M62553
108502	tcaataaatctgcctttatactttc	M62553
108503	ctgagtcacccagaggaaggagaac	M62553
108504	tctgagtacatcctggctctagcct	M62553
108505	gtccagccgctacattccatggtgt	M62553
108506	tcaccctgcacaaactgggaaacac	M62553
108507	gaaacactgtctgcctctcttttaa	M62553
108508	cctgctccaggctaacaggccagta	M62553
108509	gagtttctggcaacactacctgagt	M62553
108510	tgtttcgtcagtttccatagtttag	M63695
108511	gaacaaacacaactgcaaatgtgcg	M63695
108512	gtgacatacagctttggggtttgtt	M63695
108513	tacagctttggggtttgttggcaag	M63695
108514	gtgtaaaatccaacaccaacagtat	M63695
108515	tttgctaccttagatacaaacctgc	M63695
108516	gatacaaacctgccaattaatgata	M63695
108517	aacctgccaattaatgataactcca	M63695
108518	aatgataactccaagggcctccaat	M63695
108519	aatgccataatgaccatcttaggac	M63695
108520	accatcttaggacacagtctctatg	M63695
108521	ttaggacacagtctctatggaaatt	M63695
108522	acacaactgcaaatgtgcgtacctg	M63695
108523	atgtgcgtacctgccagaaacaagc	M63695
108524	ctgttggcagtgttttatgggattt	M63695
108525	gaaagcatacttcctgcccaaacag	M63695
108526	gacgctctgaggttagttggcaagt	M63695
108527	tgtaaagtccaacaccaacctggct	M63695
108528	caccaacctggctgtactctgtatt	M63695
108529	cctggctgtactctgtatttttcaa	M63695
108530	agatcattcattctgattgcttcat	D10939
108531	tcattcattctgattgcttcatggt	D10939
108532	gacactgtgacggtcgtgtgcattg	D10939

TABLE 1

SEQ ID NO	sequence	DBAxnID
23325	taaatgctaaccacagcaagttatt	U27462
23326	atagccttctagcacccaggcatgg	U27462
23327	ttctagcacccaggcatggtaacag	U27462
23328	cacccaggcatggtaacagccagat	U27462
23329	caagtgccactgtgttcccaagagc	U27462
23330	tgttcccaagagctttcatttcag	U27462
23331	cttttcatttcagctgaagccttgc	U27462
23332	atttcagctgaagccttgccgcaga	U27462
23333	gccttgccgcagaccaagctggaca	U27462
23334	ccgcagaccaagctggacaagtatg	U27462
23335	agggcagacataccacagcacgagt	U27462
23336	ttaacatctctagactggaagctta	U27462
23337	actgatagccaagggacctgagatt	U27462
23338	agccaagggacctgagattgtgatc	U27462
23339	tgtgatctgctttctcaggactctc	U27462
23340	ctgctttctcaggactctccctggg	U27462
23341	tctcaggactctccctgggtttcct	U27462
23342	aagggcctgtcagcctttggttgct	U27462
23343	ctgtcagcctttggttgcttagtcc	U27462
23344	gagacaccttgaactaccatcctgc	W71124
23345	ccttgaactaccatcctgccttctg	W71124
23346	aggatttgcttcaacataggctgcg	W71124
23347	ttcaacataggctgcgtgaacacta	W71124
23348	tgcgtgaacactatcctggaaaact	W71124
23349	actatcctggaaaacttgcaggcag	W71124
23350	aacttgcaggcagccgagcaggcct	W71124
23351	caggcagccgagcaggccttcacca	W71124
23352	gccgagcaggccttcaccaaaagca	W71124
23353	gagcaggccttcaccaaaagcatca	W71124
23354	caggccttcaccaaaagcatcaaca	W71124
23355	ttcaccaaaagcatcaacagagaca	W71124
23356	ctgccttctggtaagcacctaacca	W71124
23357	ccttctggtaagcacctaaccatgt	W71124
23358	ggtaagcacctaaccatgtccctgg	W71124
23359	aagcacctaaccatgtccctggctg	W71124
23360	gctgaggccatcagactctcgaatg	W71124
23361	gccatcagactctcgaatgaagggg	W71124
23362	agactctcgaatgaaggggtgctcg	W71124
23363	gtgctcgcagccgacaagaaggact	W71124
23364	caggagtcccaggtcttgtaggcag	U18424
23365	cttctggccagcaaggacaaaaggg	U18424
23366	gtggctctgggaacatctggctgga	U18424
23367	acatctggctggacaatgtgaattg	U18424
23368	tgaattgtcggggcacagagaacag	U18424
23369	acagtttgtgggactgcagtaagaa	U18424
23370	agaactcctggggcaatcacaattg	U18424
23371	actcctggggcaatcacaattgcgt	U18424
23372	gcaatcacaattgcgtacataatga	U18424
23373	gaaatctgtgggcttgccaactctg	U18424
23374	atctgtgggcttgccaactctgttg	U18424
23375	cttgccaactctgttgaggggaagt	U18424
23376	gcgaatctttccaacgcgtccggat	U18424
23377	ctttccaacgcgtccggatcatggg	U18424
23378	gcaccaacagaggccgagctgaagt	U18424
23379	ccaacagaggccgagctgaagttta	U18424
23380	atgatgcgactgtcttctgtcgcat	U18424
23381	gtcgcatgctcggttactccagagg	U18424
23382	gcatgctcggttactccagagggag	U18424
23383	gttactccagagggagagcacttag	U18424
23384	tcctgaaatctacccagacccttg	L23754
23385	gaaagcaaagaccaccttctataga	L23754
23386	actgctgagcgttatcagtaaacag	L23754
23387	tatcagtaaacaggcctttgggact	L23754
23388	taaacaggcctttgggactagtgct	L23754
23389	tagtgctcactgaagccccctagta	L23754
23390	tcactgaagccccctagtagctgta	L23754
23391	aagccccctagtagctgtattagtg	L23754
23392	gttcttactgctcacgttcctgggg	L23754
65929	gctagcttatcatacttgttcacct	U27315
65930	tagcttatcatacttgttcacctga	U27315
65931	cttatcatacttgttcacctgatta	U27315
65932	atcatacttgttcacctgattaact	U27315
65933	tacttgttcacctgattaactgaag	U27315
65934	cttgttcacctgattaactgaagaa	U27315
65935	gttcacctgattaactgaagaactg	U27315
65936	ttcacctgattaactgaagaactga	U27315
65937	tatcgtgagctggatgattgcgcag	U27315
65938	tttaacagactattcttgaggaaag	U27315
65939	taacagactattcttgaggaaagaa	U27315
65940	agtattcattaaaccacagaagtat	U27315
65941	gtattcattaaaccacagaagtatt	U27315
65942	ttcattaaaccacagaagtattttg	U27315
65943	catttagattcccacagaaaacagg	U27315
65944	tttagattcccacagaaaacaggct	U27315
65945	agactggattcccagctgatggaat	AA062463
65946	ctggattcccagctgatggaatgtt	AA062463
65947	gactgtgatgtctgtgttggtagtg	AA062463
65948	ctgtgatgtctgtgttggtagtgag	AA062463
65949	tgtgatgtctgtgttggtagtgagt	AA062463
65950	tagtgagttcttccagaagggcgca	AA062463
65951	tgagttcttccagaagggcgcagag	AA062463
65952	gagttcttccagaagggcgcagagg	AA062463
65953	gttcttccagaagggcgcagaggag	AA062463
65954	ttcttccagaagggcgcagaggagt	AA062463
65955	tcttccagaagggcgcagaggagtg	AA062463
65956	ttccagaagggcgcagaggagtgtc	AA062463
65957	tggattcccagctgatggaatgttg	AA062463
65958	gattcccagctgatggaatgttgac	AA062463
65959	attcccagctgatggaatgttgact	AA062463
65960	ttcccagctgatggaatgttgactg	AA062463
65961	aatgttgactgtgatgtctgtgttg	AA062463
65962	atgttgactgtgatgtctgtgttgg	AA062463
65963	tgttgactgtgatgtctgtgttggt	AA062463
65964	tgactgtgatgtctgtgttggtagt	AA062463
65965	caagtgtcctgggtgatcgctgtct	AA062467
65966	aagtgtcctgggtgatcgctgtctt	AA062467
65967	atgttaagcactggctctgagcagg	AA062467
65968	tgttaagcactggctctgagcaggt	AA062467
65969	aggtcatggacttcacgccagcgcg	AA062467
65970	tcatggacttcacgccagcgcggag	AA062467
65971	catggacttcacgccagcgcggagg	AA062467
65972	tggacttcacgccagcgcggaggag	AA062467
65973	ggacttcacgccagcgcggaggaga	AA062467
65974	gacttcacgccagcgcggaggagaa	AA062467
65975	cttcacgccagcgcggaggagaagg	AA062467
65976	ttcacgccagcgcggaggagaagga	AA062467
65977	gtgtcctgggtgatcgctgtcttct	AA062467
65978	tcgctgtcttctgtgggtctgactg	AA062467
65979	cgctgtcttctgtgggtctgactgt	AA062467
65980	ctgtcttctgtgggtctgactgtgg	AA062467
65981	agtcattgacctagtaagctcagtg	AA062467
65982	tcattgacctagtaagctcagtggt	AA062467
65983	cattgacctagtaagctcagtggtt	AA062467
65984	attgacctagtaagctcagtggttg	AA062467
65985	tggcatctttggagtggccacagtt	X84896
65986	agtggccacagttctctgtgatctc	X84896
65987	aggctttcctgcaaggcagatacca	X84896
65988	cctctggttcagccaagacattgga	X84896
65989	gttcagccaagacattggaatccag	X84896
65990	cattggaatccagagctctgggtcc	X84896
65991	taccctagcttcgtgcttatggctc	X84896
65992	agcttcgtgcttatggctcaggctg	X84896
65993	tggctttgggctcttccacatggta	X84896
65994	tgggctcttccacatggtagccact	X84896
65995	agccactagccagatgtgtcagttt	X84896
65996	tagccagatgtgtcagtttgaactt	X84896
108533	actgtgacggtcgtgtgcattgtgg	D10939
108534	taacttttgtggctttgggactgtg	D10939
108535	aattgaatccaaggcctcttgcatg	D10939
108536	tgaatccaaggcctcttgcatgcta	D10939
108537	atccaaggcctcttgcatgctaagc	D10939
108538	aagcaagtgctgtaccactgagcta	D10939
108539	ctgtaccactgagctacactcagtg	D10939
108540	cactgagctacactcagtgtagatt	D10939
108541	gctacactcagtgtagatttgagaa	D10939
108542	attctgattgcttcatggtgtgaaa	D10939
108543	ctgattgcttcatggtgtgaaatga	D10939
108544	attgcttcatggtgtgaaatgagga	D10939
108545	atgttaggcttcgtctttcacagat	D10939
108546	ggcttcgtctttcacagattatgag	D10939
108547	ttcgtctttcacagattatgaggac	D10939
108548	gtctttcacagattatgaggacatg	D10939
108549	ttagacactgtgacggtcgtgtgca	D10939
108550	ccagtggaccaacctgaacgcacca	Y00023
108551	gtggaccaacctgaacgcaccattc	Y00023
108552	agcttccagaacaagcactgtggaa	Y00023
108553	ttccagaacaagcactgtggaaagg	Y00023
108554	agccgcagcagcgcagaattcagtg	Y00023
108555	tcctccatcaggcacacagattcac	Y00023
108556	tccatcaggcacacagattcaccag	Y00023
108557	aggcacacagattcaccagcagaaa	Y00023
108558	cacacagattcaccagcagaaaggc	Y00023
108559	acagattcaccagcagaaaggccct	Y00023
108560	tcaccagcagaaaggccctccttta	Y00023
108561	tcagccaaaacctccctgtgggagt	Y00023
108562	gaccaacctgaacgcaccattcaag	Y00023
108563	gaacgcaccattcaagtgtgaggcg	Y00023
108564	cgcaccattcaagtgtgaggcgata	Y00023
108565	ggcgataaacccggtcagcaaggag	Y00023
108566	gaaaggtctgtccttctatgtcaca	Y00023
108567	tgcaggaggactcctcttggtgctc	Y00023
108568	actcctcttggtgctcttggtggcg	Y00023
108569	tttctgtatctgcaagaggagaaaa	Y00023
108570	agatccaaatctaatgtggttctgc	M62541
108571	aatgtggttctgctgtcagctggag	M62541
108572	cttgtggccttccacaatctattct	M62541
108573	gccttccacaatctattctccatat	M62541
108574	ttttcacagcttaactttgcataga	M62541
108575	cagcttaactttgcatagagaagcc	M62541
108576	agaagccacatctagctctccttca	M62541
108577	tagctctccttcacatttgaagaat	M62541
108578	tttgccttgcttagggagtcttaca	M62541
108579	tcttacactggcagaaacgctgaag	M62541
108580	atgtgtgtctcagtagtggtaatgg	M62541
108581	ttcctccatcagcagttacagcaga	M62541
108582	gtatcttcccaaccaaagaatgaag	M62541
108583	tccttgccagtggaaaatgagatcg	M62541
108584	gagatcgctccttaaactcttttct	M62541
108585	agcttccaagacacatagttaccct	M62541
108586	caagacacatagttaccctcatctc	M62541
108587	acatagttaccctcatctcttgtgg	M62541
108588	ttaccctcatctcttgtggccttcc	M62541
108589	tcatctcttgtggccttccacaatc	M62541
108590	agtcctctatgatgggtcgactgca	W10793
108591	agagacctctgacacagtctcagag	W10793
108592	tcgacactctagcatctccagagac	W10793
108593	ctctccgctgagcagctgatcctac	W10793
108594	cagctgatcctacagaaactgccct	W10793
108595	atcctacagaaactgccctagttgc	W10793
108596	cagaaactgccctagttgcttacta	W10793
108597	ctgccctagttgcttactacgcgaa	W10793
108598	aagatgtcgtgcacacctcagtgga	W10793
108599	tcgtgcacacctcagtggaccatgc	W10793
108600	acacctcagtggaccatgccactgc	W10793

TABLE 1

SEQ ID NO	sequence	DBAxnID
23393	actgctcacgttcctggggattcgt	L23754
23394	tgtagctggggcctgagtttcatca	L23754
23395	ttcatcactttcagagcaacgtctt	L23754
23396	gtatttctacatgcccctttggatca	L23754
23397	ctacatgcccctttggatcaggagct	L23754
23398	gcccctttggatcaggagctacaata	L23754
23399	tctgatgctgtcttactttgaactg	L23754
23400	gctgtcttactttgaactggagctt	L23754
23401	aattttgccaccactaaatgatatt	L23754
23402	gccaccactaaatgatattgagttt	L23754
23403	gtaacgactgctgagcgttatcagt	L23754
23404	cctctacactgctcaagcgatcgct	W71002
23405	ctacactgctcaagcgatcgctgat	W71002
23406	atatgtcagcagtcatccaagctac	W71002
23407	tgtcagcagtcatccaagctacagg	W71002
23408	tcatccaagctacagggtgacgagc	W71002
23409	tccaagctacagggtgacgagcgca	W71002
23410	aacatactgcagttcctgatagaca	W71002
23411	ctgcagttcctgatagacattgcgc	W71002
23412	ttcctgatagacattgcgctggcta	W71002
23413	atagacattgcgctggctagcgacg	W71002
23414	gacattgcgctggctagcgacgatg	W71002
23415	ctcgaggttcacgggtgtgaagtgc	W71002
23416	cactgctcaagcgatcgctgatgat	W71002
23417	gcttgtagctctctgaagcttaagt	W71002
23418	tcaagcgatcgctgatgattacgct	W71002
23419	tagcgatgacttcttgctgcaactg	W71002
23420	tgacttcttgctgcaactggtactg	W71002
23421	cttgctgcaactggtactgtaattg	W71002
23422	gtaattgatgcacccacaatatgtc	W71002
23423	gatgcacccacaatatgtcagcagt	W71002
23424	cccacaatatgtcagcagtcatcca	W71002
23425	atcagcccttgaggcagcccacaaa	M84147
23426	ccttgaggcagcccacaaaggctgg	M84147
23427	tctgatgcactcgggagacagcatt	M84147
23428	cagcattcgaactgttctaaagatg	M84147
23429	gcactctttcctgtgattggctaga	M84147
23430	tttcctgtgattggctagaaacaga	M84147
23431	agctaaccacgtcgtagacttcaga	M84147
23432	ccacgtcgtagacttcagaaatgac	M84147
23433	tccacataaacaattgctgctcatt	M84147
23434	taaacaattgctgctcattgtgcaa	M84147
23435	attgctgctcattgtgcaacatttt	M84147
23436	gctcattgtgcaacattttaacata	M84147
23437	ggaagaaatctccactcgtccattc	M84147
23438	gaaaggcaccgcctttggaggatgg	M84147
23439	caccgcctttggaggatggaagagt	M84147
23440	gagtgtcccaaagctggtgtctgaa	M84147
23441	atttgtgaccggcaatctctccttc	M84147
23442	gaccggcaatctctccttcgaccaa	M84147
23443	ccaagcctttgatctgatgcactcg	M84147
23444	ctttgatctgatgcactcgggagac	M84147
23445	gtgcccactttgaggacatcaccat	L12687
23446	actttgaggacatcaccatgacaga	L12687
23447	tgggaactcccagtctggtccctct	L12687
23448	tgcctgccgacgccttggtctctgc	L12687
23449	aggctgtgagcccagatcttactag	L12687
23450	tgagcccagatcttactagcttcca	L12687
23451	cagatcttactagcttccagcgggc	L12687
23452	ttactagcttccagcgggctttgca	L12687
23453	gcttccagcgggctttgcatcacat	L12687
23454	gagagcttcgcacctacatcatgcc	L12687
23455	tcaaaggcatcttctttgcctgggc	L12687
23456	gcatcttctttgcctgggcccagaa	L12687
23457	aggacatcaccatgacagacttctt	L12687
23458	tcaaccgtcaggagctgggactctg	L12687
23459	tgtatagtcagcatgcctgcctcat	L12687
23460	gtcagcatgcctgcctcattgagga	L12687

SEQ ID NO:	sequence	DBAxnID
65997	tgatctcttattgctccacatcctg	X84896
65998	gctccacatcctgcctaagaggcac	X84896
65999	catcctgcctaagaggcactactac	X84896
66000	gaggcactactacaagcagaagaag	X84896
66001	tctgggcctgcaggagaacatgagg	X84896
66002	ttccagcaagggctggtggctttga	X84896
66003	gctttgagccagggcagaggtcatt	X84896
66004	ggtcattgccagaggctttcctgca	X84896
66005	acgtccacacaagtgccttccaggc	X85983
66006	acacaagtgccttccaggccctgtc	X85983
66007	cctcagcctggccaatctcttgtca	X85983
66008	cttgtcatctccacagccaggccaa	X85983
66009	atctccacagccaggccaaaatctg	X85983
66010	acagccaggccaaaatctgtcttca	X85983
66011	aggccaaaatctgtcttcattggta	X85983
66012	cctgctgccacactctggtgactct	X85983
66013	gccacactctggtgactcttgagcc	X85983
66014	cccagacttattgcttccattcagt	X85983
66015	cttattgcttccattcagtgtgatt	X85983
66016	gcttccattcagtgtgattcttgct	X85983
66017	acctgccggagtccatgtgcagggc	X85983
66018	gtgattcttgctgcagtcatggtgg	X85983
66019	cggagtccatgtgcagggctgagtc	X85983
66020	tacggcccaggttcccaatgtatca	X85983
66021	ccaggttcccaatgtatcatccact	X85983
66022	tcccaatgtatcatccactccatga	X85983
66023	tgtatcatccactccatgaaccatg	X85983
66024	tccatgaaccatggagaagagagcc	X85983
66025	ctcacagcaggagccgggaagagtt	X85983
66026	atagaaccagtctgccgtggaagga	AA124955
66027	gaaccagtctgccgtggaaggactg	AA124955
66028	tcgtgggctgcgctttgaggaagct	AA124955
66029	ggaagctccggattacatgtatctg	AA124955
66030	agctccggattacatgtatctgagg	AA124955
66031	ttacatgtatctgaggcagctattc	AA124955
66032	catgtatctgaggcagctattccgc	AA124955
66033	tctgaggcagctattccgcatcctt	AA124955
66034	gcagctattccgcatccttttcagg	AA124955
66035	gctattccgcatccttttcaggacc	AA124955
66036	attccgcatccttttcaggaccctg	AA124955
66037	tttcaggaccctgaaccaccaatat	AA124955
66038	gaagatgtccactcctgttgaggtg	AA124955
66039	caggaccctgaaccaccaatatgac	AA124955
66040	gatgtccactcctgttgaggtgttg	AA124955
66041	gtttcctgcagaatttgccatgtac	AA124955
66042	tcctgcagaatttgccatgtactta	AA124955
66043	atttgccatgtacttaaattactgt	AA124955
66044	cttaaattactgtcgtgggctgcgc	AA124955
66045	aaattactgtcgtgggctgcgcttt	AA124955
66046	ctgtcgtgggctgcgctttgaggaa	AA124955
66047	gaagacccttagcactgtccgagtg	AA062494
66048	agacccttagcactgtccgagtgat	AA062494
66049	tgcctgcagatggtactgtaattga	AA062494
66050	cagtaattcagctacaggctgacag	AA062494
66051	gtaattcagctacaggctgacagcg	AA062494
66052	gctacaggctgacagcgcaagaaga	AA062494
66053	caggctgacagcgcaagaagatatg	AA062494
66054	atatgccagtcctgatacagattgg	AA062494
66055	atgccagtcctgatacagattggcc	AA062494
66056	gccagtcctgatacagattggcctg	AA062494
66057	cagtcctgatacagattggcctggg	AA062494
66058	atacagattggcctgggtccggcgg	AA062494
66059	acccttagcactgtccgagtgatcg	AA062494
66060	ggttttacgtcctcttgctctctga	AA062494
66061	ccttagcactgtccgagtgatcgct	AA062494
66062	ttagcactgtccgagtgatcgctga	AA062494
66063	agcactgtccgagtgatcgctgatg	AA062494
66064	ctgtccgagtgatcgctgatgatta	AA062494

SEQ ID NO	sequence	DBAxnID
108601	cagtggaccatgccactgcagttcc	W10793
108602	ctctgacacagtctcagagatcctc	W10793
108603	ggaccatgccactgcagttccatct	W10793
108604	cacagtctcagagatcctcaccaga	W10793
108605	ctcagagatcctcaccagatattaa	W10793
108606	aaatcactgctatgctctgccagag	W10793
108607	ctgctatgctctgccagagtgataa	W10793
108608	tgctctgccagagtgataactcata	W10793
108609	actcataattactcgacactctagc	W10793
108610	aattactcgacactctagcatctcc	W10793
108611	catcagaaccctttcctgtgaatac	L24495
108612	tgaatactcaacaaactgcccttct	L24495
108613	ggtctgacacctttgacctcctctg	L24495
108614	ggcatctacaaacacaggacacaca	L24495
108615	cacaggacacacacacacacgatta	L24495
108616	atgagccaccggaggctctctggta	L24495
108617	aggactgactgccgtgagagacact	L24495
108618	agacactatctacagacacacagac	L24495
108619	tatctacagacacacagacttcctg	L24495
108620	cagacacacagacttcctggccttg	L24495
108621	ggttctgtcttctctgtaagttgtg	L24495
108622	gtcttctctgtaagttgtgacagtg	L24495
108623	ctcaacaaactgcccttctgagacc	L24495
108624	gagcaggatcccagtgtgtggccca	L24495
108625	gatcccagtgtgtggcccagcaagc	L24495
108626	agactcaggctctagctataaagca	L24495
108627	accgtccagctgacaaaactacatg	L24495
108628	aatggctcaccaagggctccagagg	L24495
108629	tgattcccagcactgtcaaatggat	L24495
108630	ccagctgtaactctactttcagagg	L24495
108631	tgtggcttgacccaaactcaagctt	M34563
108632	ggcttgacccaaactcaagcttaat	M34563
108633	gccagcacatttcagtcatgtggtg	M34563
108634	acatttcagtcatgtggtgtgatag	M34563
108635	tctctttggctaagttggtgtttgg	M34563
108636	tgagccacttagctcctaaatagtg	M34563
108637	aatcacattgactcatggaatggcc	M34563
108638	cacattgactcatggaatggcctca	M34563
108639	ttcctcattcccggtcatgggaact	M34563
108640	attcccggtcatgggaactcagtat	M34563
108641	atagtcacaacatgatttcagaact	M34563
108642	gtcacaacatgatttcagaactaga	M34563
108643	caaactcaagcttaatacatttatt	M34563
108644	actcaagcttaatacatttattgac	M34563
108645	aagatcattcattcagccttgggaa	M34563
108646	atcattcattcagccttgggaagtc	M34563
108647	agtcaatttgcaggctcctggatga	M34563
108648	ccgttttcacttgccagcacatttc	M34563
108649	ttttcacttgccagcacatttcagt	M34563
108650	tcacttgccagcacatttcagtcat	M34563
108651	cacttcgttattcatgatctcacct	W11062
108652	cctctcaggcctccttgcgacggaa	W11062
108653	atgtcttgagcgtggcttctcctct	W11062
108654	gtcccgatacaacagcatcgagtta	W11062
108655	atacaacagcatcgagttatgtaac	W11062
108656	caacagcatcgagttatgtaacact	W11062
108657	gttatgtaacactctggatgtccgc	W11062
108658	atgtaacactctggatgtccgcaag	W11062
108659	cactctggatgtccgcaagtacatg	W11062
108660	ggatgtccgcaagtacatggtccat	W11062
108661	tcattcataatgggcgtcatatatg	W11062
108662	gtcatatatgcgcttctccgcgaac	W11062
108663	ctcaggcctccttgcgacggaactc	W11062
108664	aggcctccttgcgacggaactctgc	W11062
108665	gacggaactctgcgcctctggcact	W11062
108666	actctgcgcctctggcactgtcata	W11062
108667	ctgcgcctctggcactgtcataacg	W11062
108668	cactgtcataacgggtaccaccaca	W11062

TABLE 1

SEQ ID NO	sequence	DBAxnID
23461	atgcctgcctcattgaggacaaggg	L12687
23462	tgaagcgagtcctgcctatcgatgt	L12687
23463	gagtcctgcctatcgatgtgcacaa	L12687
23464	tgcctatcgatgtgcacaagcccca	L12687
23465	ggacaggcccaagatcctcatggac	W71242
23466	acaggcccaagatcctcatggacag	W71242
23467	catcttccactccgaagagatcaag	W71242
23468	ttccactccgaagagatcaaggctc	W71242
23469	ccactccgaagagatcaaggctcca	W71242
23470	gagatcaaggctccagagaaagagg	W71242
23471	gatcaaggctccagagaaagaggaa	W71242
23472	tcaaggctccagagaaagaggaatt	W71242
23473	tcctggcctggcagcacgacctgga	W71242
23474	ctggcctggcagcacgacctggaag	W71242
23475	cctggcagcacgacctggaagcgaa	W71242
23476	agcacgacctggaagcgaatgataa	W71242
23477	gcccaagatcctcatggacagccct	W71242
23478	ccaagatcctcatggacagccctga	W71242
23479	aagatcctcatggacagccctgaag	W71242
23480	ctcatggacagccctgaagacgccg	W71242
23481	catggacagccctgaagacgccgac	W71242
23482	tggacagccctgaagacgccgacat	W71242
23483	aagacgccgacatcttccactccga	W71242
23484	cgccgacatcttccactccgaagag	W71242
23485	atttatacatgcctacaaggaagac	U27830
23486	ttatacatgcctacaaggaagacag	U27830
23487	ggtcccagctgtcttcacctgttct	U27830
23488	tcccagctgtcttcacctgttctta	U27830
23489	cccagctgtcttcacctgttcttac	U27830
23490	cagctgtcttcacctgttcttaccc	U27830
23491	agctgtcttcacctgttcttaccca	U27830
23492	ctgtcttcacctgttcttacccacg	U27830
23493	tgtcttcacctgttcttacccacgt	U27830
23494	cctcctcaataaagaagccagtcag	U27830
23495	ctcctcaataaagaagccagtcagg	U27830
23496	taaagaagccagtcaggcgtggtta	U27830
23497	tatacatgcctacaaggaagacaga	U27830
23498	tacatgcctacaaggaagacagact	U27830
23499	aagacagactcatccagcgccacct	U27830
23500	atggtctcttcactgctgccctcaa	U27830
23501	tggtctcttcactgctgccctcaat	U27830
23502	tcttcactgctgccctcaatccgag	U27830
23503	cttcactgctgccctcaatccgagt	U27830
23504	tgctgccctcaatccgagtgtcctt	U27830
23505	gctgttcacgaacccagacctggag	U28016
23506	ttcaaatctactggagacattaatc	U28016
23507	actctgtgatctgcactacttgaga	U28016
23508	tgatctgcactacttgagaaaaatg	U28016
23509	agctaagttgccccttctggagcaa	U28016
23510	gccccttctggagcaacctaatgtt	U28016
23511	ccttctggagcaacctaatgtttct	U28016
23512	ggagcaacctaatgtttcttgtaat	U28016
23513	tattgatgatcctactaattatcct	U28016
23514	tgatgatcctactaattatcctgct	U28016
23515	tgatcctactaattatcctgctgtt	U28016
23516	tactaattatcctgctgttctttaa	U28016
23517	attaatccagtctacatagaactgg	U28016
23518	aatggtcacttctctcctatgagaa	U28016
23519	ggtcacttctctcctatgagaagct	U28016
23520	ttctctcctatgagaagctggataa	U28016
23521	gccacagggctcaagtgagtcccat	U28016
23522	ctcaagtgagtcccattgtctttcc	U28016
23523	tgagtcccattgtctttccttaata	U28016
23524	ccaaccctgactctgtgatctgcac	U28016
23525	agtgcagccactcctggctgatagc	D10475
23526	acttcctgcctgggagctctgaaga	D10475
23527	agcccttggcctgcagtgtgctcgc	D10475
23528	gagacctctcgaccaggcaggcagc	D10475
66065	gtccgagtgatcgctgatgattacg	AA062494
66066	ttacgataccgagaaactagtgaag	AA062494
66067	aatgtgcctgcagatggtactgtaa	AA062494
66068	cttcgccacatggaaagcatggaaa	X90648
66069	acagttatggcatcccagaacctgc	X90648
66070	gggcagcgatcaaccctttgccatc	X90648
66071	acccttgccatccacacagaatgg	X90648
66072	agaatggacctgtctttgcaaaagc	X90648
66073	gacctgtctttgcaaaagcaatcca	X90648
66074	tctttgcaaaagcaatccagaagag	X90648
66075	gagtaccttgtgcttatgacaagac	X90648
66076	acaagactgccttggcattggaggt	X90648
66077	tccccttcacacatgttaaaatctt	X90648
66078	ctcagaaccccgatgacaacgagtg	X90648
66079	accccgatgacaacgagtgattgct	X90648
66080	atggcatcccagaacctgctcatgc	X90648
66081	aacctgctcatgcgtatgctcaacc	X90648
66082	ctcatgcgtatgctcaacctcagac	X90648
66083	cgtatgctcaacctcagaccacaac	X90648
66084	ctcctctacctacagttgccagtac	X90648
66085	tacctacagttgccagtactcctgg	X90648
66086	cagttgccagtactcctggggcagc	X90648
66087	ctcctggggcagcgatcaaccctttt	X90648
66088	tagccacttcgaatactcttcacca	AA062496
66089	ccacttcgaatactcttcaccagac	AA062496
66090	cagccaccagcaagaatgttcttcc	AA062496
66091	agaatgttcttcctgagcgaatatt	AA062496
66092	atgttcttcctgagcgaatattgct	AA062496
66093	tgctatagtgtccacgcagcgctgg	AA062496
66094	tatagtgtccacgcagcgctgggta	AA062496
66095	gtccacgcagcgctgggtatggata	AA062496
66096	tgaattattcccacagcccacagtt	AA062496
66097	gatgcagccaagaatcggggactct	AA062496
66098	ctctgtcgttggcatgccgggatg	AA062496
66099	tggcatgccggggatgttttccagt	AA062496
66100	cgaatactcttcaccagacaagcag	AA062496
66101	gatgttttccagtctgtgtagttag	AA062496
66102	ctcttcaccagacaagcaggagaag	AA062496
66103	gataagtcccaagacctccacaaga	AA062496
66104	caagacctccacaagagcaattccc	AA062496
66105	gacctccacaagagcaattcccagg	AA062496
66106	aagagcaattcccagggccggatgc	AA062496
66107	agcaattcccagggccggatgcagc	AA062496
66108	atgcagccaccagcaagaatgttct	AA062496
66109	atccctctttgagtctcttaaatct	AA062365
66110	cctctttgagtctcttaaatctcga	AA062365
66111	cagaaacacagaccggccggatgcc	AA062365
66112	tgcctcggctgtctacctgcaggac	AA062365
66113	ctcggctgtctacctgcaggacttc	AA062365
66114	ggctgtctacctgcaggacttccaa	AA062365
66115	tgtctacctgcaggacttccaaagg	AA062365
66116	gacaaagtgcttccctggatgcctg	AA062365
66117	gtgcttccctggatgcctgctgtca	AA062365
66118	cttccctggatgcctgctgtcatag	AA062365
66119	ccctggatgcctgctgtcatagaat	AA062365
66120	tggatgcctgctgtcatagaatagc	AA062365
66121	tgagtctcttaaatctcgacttcga	AA062365
66122	atgcctgctgtcatagaatagctgt	AA062365
66123	gtctcttaaatctcgacttcgaggg	AA062365
66124	tcttaaatctcgacttcgagggtca	AA062365
66125	taaatctcgacttcgagggtcagtg	AA062365
66126	tctaaccaccctgtgtcatttctct	AA062365
66127	caccctgtgtcatttctctgaggac	AA062365
66128	cctgtgtcatttctctgaggacaga	AA062365
66129	tcatttctctgaggacagaaacaca	AA062365
66130	ccagctgtctgacatccgctgtgac	X75649
66131	gtctgacatccgctgtgacctggag	X75649
66132	caatcctgagaccaagacaagagtg	X75649
108669	aacgggtaccaccacaaggctgatg	W11062
108670	taccaccacaaggctgatgcgtcgg	W11062
108671	actagcacagcaatcactaacatga	L03353
108672	gatgactcatttcatgttaattttc	L03353
108673	cctggacacgtgcacactcttcctt	L03353
108674	cacactcttcctttgcctaagcttt	L03353
108675	cttcctttgcctaagctttagctat	L03353
108676	aagctttagctatgcacagaggtaa	L03353
108677	cgtcaggagagcctggcaggtcttg	L03353
108678	acatcacctgcatggttctgcatac	L03353
108679	cctgcatggttctgcatactgtgct	L03353
108680	tggttctgcatactgtgctgcatat	L03353
108681	tgcatactgtgctgcatatcagatc	L03353
108682	gaatatcaagtttcctttggcaaga	L03353
108683	aattttccgagctcaagatacatca	L03353
108684	aagtttcctttggcaagacagatat	L03353
108685	tcaagatacatcactcaccgctcca	L03353
108686	attcctcgggttcacgttcatatct	L03353
108687	cgggttcacgttcatatctgtcttt	L03353
108688	cacgttcatatctgtcttttcatct	L03353
108689	tgtcttttcatctgcacacctggac	L03353
108690	ttcatctgcacacctggacacgtgc	L03353
108691	tgcacacctggacacgtgcacactc	L03353
108692	tcacctagctcccttggccaggaat	W17411
108693	atgagggagccatggccttggtgaa	W17411
108694	taaatggtcttgtgcccttaatcct	W17411
108695	atggtcttgtgcccttaatcctact	W17411
108696	gtcttgtgcccttaatcctactcat	W17411
108697	tcttgtgcccttaatcctactcatc	W17411
108698	cttgtgcccttaatcctactcatcc	W17411
108699	ttgtgcccttaatcctactcatccc	W17411
108700	ttaatcctactcatccccgatctgg	W17411
108701	ccgatctggtcccctgttctccata	W17411
108702	cgatctggtcccctgttctccatag	W17411
108703	atctggtcccctgttctccatagtc	W17411
108704	gagccatggccttggtgaaactccc	W17411
108705	tggtcccctgttctccatagtcctt	W17411
108706	agccatggccttggtgaaactccct	W17411
108707	gccatggccttggtgaaactccctg	W17411
108708	ggccttggtgaaactccctgcctct	W17411
108709	ttggtgaaactccctgcctcttctc	W17411
108710	tggtgaaactccctgcctcttctct	W17411
108711	ggtgaaactccctgcctcttctctc	W17411
108712	gagttgggtactgcttgtggtttag	W17411
108713	atccccaaagaacagtggtggctga	W11082
108714	aagctgaggccaatcctcaaaatcc	W11082
108715	tgtgaccatggtcagctcacaccct	W11082
108716	tggtcagctcacaccctggtagatc	W11082
108717	gtcagctcacaccctggtagatcat	W11082
108718	gctcacaccctggtagatcatggct	W11082
108719	tcacaccctggtagatcatggcttc	W11082
108720	acaccctggtagatcatggcttctc	W11082
108721	accctggtagatcatggcttctcag	W11082
108722	gtagatcatggcttctcagtgttct	W11082
108723	agatcatggcttctcagtgttctag	W11082
108724	atcatggcttctcagtgttctagcc	W11082
108725	gctgaggccaatcctcaaaatccta	W11082
108726	caatcctcaaaatcctagccaagta	W11082
108727	atcctcaaaatcctagccaagtacg	W11082
108728	tcaaaatcctagccaagtacgagat	W11082
108729	aatcctagccaagtacgagattgat	W11082
108730	agatcatgtgaccatggtcagctca	W11082
108731	atcatgtgaccatggtcagctcaca	W11082
108732	catgtgaccatggtcagctcacacc	W11082
108733	aatctgggcaacaatgccaaagacc	Y00635
108734	ggcaacaatgccaaagaccctcgag	Y00635
108735	ctcattgcgggacaggatggagttc	Y00635
108736	cgccagtcaagagcttcagacaagc	Y00635

TABLE 1

SEQ ID NO	sequence	DBAxnID
23529	tctcgaccaggcaggcagctgaatc	D10475
23530	ctgaatctggatttccagtgaatca	D10475
23531	gagtcagcactccagatacatctct	D10475
23532	gcactccagatacatctctctgctg	D10475
23533	cagatacatctctctgctgacttca	D10475
23534	catctctctgctgacttcatagcct	D10475
23535	tctgctgacttcatagcctatttaa	D10475
23536	tttccaagcatttcttcaaatattt	D10475
23537	tgcctgggagctctgaagatgaacc	D10475
23538	atgaacctgggcctttgcagctcac	D10475
23539	ccctctctgcatcagtcagtgccat	D10475
23540	ctgcatcagtcagtgccatcggatt	D10475
23541	cagtcagtgccatcggatttagctg	D10475
23542	gtgccatcggatttagctgcagaga	D10475
23543	ttagctgcagagaccatgcgtacca	D10475
23544	gcagagaccatgcgtaccacccagg	D10475
23545	tctttctgaggctgctctactcacc	U29173
23546	tgaggctgctctactcaccaggact	U29173
23547	attgagcctcggacacaaggaaggc	U29173
23548	gccctgcctctctgtgttctaaaca	U29173
23549	ggtcccagggtcactcgcaaggata	U29173
23550	actcgcaaggatatcccagggacct	U29173
23551	atcccagggacctcgcaaagctttg	U29173
23552	gggacctcgcaaagctttgtggtgc	U29173
23553	agctttgtggtgctcatccctacct	U29173
23554	gtggtgctcatccctaccttcagag	U29173
23555	cctaccttcagaggccttgagagct	U29173
23556	gtgaagtcgcgcggaggagcaaccc	U29173
23557	tgctctactcaccaggactcacagg	U29173
23558	acttagcctcagacacctcttcaga	U29173
23559	acacctcttcagagcagaaccggac	U29173
23560	cttcagagcagaaccggacactagc	U29173
23561	agcagaaccggacactagcaggcca	U29173
23562	accggacactagcaggccacagtgc	U29173
23563	caggactctgactaccgcctgagca	U29173
23564	ctcccagaggcttcggccattgagc	U29173
23565	atcgatgccaagggtgtccttcgcc	X82067
23566	cagatcacagtcaatgacctacctg	X82067
23567	gaatacttctccaaacacaactgag	X82067
23568	ttctccaaacacaactgagatgggt	X82067
23569	taaacatcggtgagcctgaagcttg	X82067
23570	tcggtgagcctgaagcttggatttc	X82067
23571	aacctggatgtcctgtgctggccca	X82067
23572	ctgtgctggcccagaaaatgctaga	X82067
23573	tgctagattttcctccactctctga	X82067
23574	cattacccacctggaatctggtgaa	X82067
23575	ccacctggaatctggtgaatagtga	X82067
23576	ctagctgggcccaggtctataggaa	X82067
23577	acagtcaatgacctacctgtgggcc	X82067
23578	ctccgcctagtccaggcctttcagt	X82067
23579	caggcctttcagtatacagacgagc	X82067
23580	tatacagacgagcatggggaagtct	X82067
23581	tggaagcccggcagtgacaccatca	X82067
23582	agtgacaccatcaagcccaatgtgg	X82067
23583	accatcaagcccaatgtggatgaca	X82067
23584	aagcccaatgtggatgacagcaagg	X82067
23585	agctgctgtgctgcagagatggaca	W71076
23586	ctgctgtgctgcagagatggacacg	W71076
23587	ctacttcaagtggcggcagaatgac	W71076
23588	acttcaagtggcggcagaatgacat	W71076
23589	accgttcatgcgcatgattgttgtc	W71076
23590	cgttcatgcgcatgattgttgtccg	W71076
23591	gttcatgcgcatgattgttgtccga	W71076
23592	catgattgttgtccgactggatgct	W71076
23593	tgattgttgtccgactggatgctaa	W71076
23594	gattgttgtccgactggatgctaaa	W71076
23595	tgttgtccgactggatgctaaaagt	W71076
23596	ttgtccgactggatgctaaaagtgt	W71076
66133	gttggccctgaccagaaccaggaag	X75649
66134	cctgaccagaaccaggaagtgacac	X75649
66135	gtgacactagcaacatgtcctgata	X75649
66136	ctagcaacatgtcctgataatacat	X75649
66137	aatacattgcttcagcgctgcctcc	X75649
66138	ttgcttcagcgctgcctcctctatt	X75649
66139	cagcgctgcctcctctatttccttg	X75649
66140	ggttgtctctgctttctcagagtgc	X75649
66141	tttctcagagtgcatgtgttttcgg	X75649
66142	catccgctgtgacctggagagacag	X75649
66143	ccacactgtttgtgtgccttgttca	X75649
66144	tgtttgtgtgccttgttcaccctgc	X75649
66145	ctactgaagcctctgagcatctctc	X75649
66146	aagcctctgagcatctctcagtgtg	X75649
66147	cctggtgcctcgtcacaccaagtct	X75649
66148	tcacaccaagtctgaccacaatcct	X75649
66149	tgaccacaatcctgagaccaagaca	X75649
66150	ctcagcgatctctgatccagacctt	AA063800
66151	ctctgatccagaccttccaaaagga	AA063800
66152	ctggacttctctgccaaggtcatcc	AA063800
66153	ttctctgccaaggtcatccagggca	AA063800
66154	gccaaggtcatccagggcagcctcg	AA063800
66155	aaggtcatccagggcagcctcgaca	AA063800
66156	gcaatgctcagctgtgccagccgga	AA063800
66157	atgctcagctgtgccagccggagta	AA063800
66158	tgtgccagccggagtatatccacat	AA063800
66159	agtatatccacatctgcgatggctc	AA063800
66160	atatccacatctgcgatggctccga	AA063800
66161	tccacatctgcgatggctccgagga	AA063800
66162	tgatccagaccttccaaaaggaaga	AA063800
66163	tctctccacaccattgcaattatgc	AA063800
66164	gcaattatgcctcctcagctgcata	AA063800
66165	atgcctcctcagctgcataacggtc	AA063800
66166	cctcctcagctgcataacggtctgg	AA063800
66167	cctcagctgcataacggtctggact	AA063800
66168	cataacggtctggacttctctgcca	AA063800
66169	aacggtctggacttctctgccaagg	AA063800
66170	ctccacacctatgaatccggtactg	X75384
66171	cacacctatgaatccggtactgctg	X75384
66172	cgtttccagcttctggacctcattc	X75384
66173	cagcttctggacctcattcttccct	X75384
66174	cttctggacctcattcttcccttg	X75384
66175	ctggacctcattcttccctttgatt	X75384
66176	tctttaccgtgtctggctaataagg	X75384
66177	gagccaagatgccctgggcaccagt	X75384
66178	ccaagatgccctgggcaccagttgc	X75384
66179	cctgggcaccagttgctagcaccaa	X75384
66180	ttgctagcaccaaggactgaatctt	X75384
66181	ctagcaccaaggactgaatctttaa	X75384
66182	gaatccggtactgctgctcagtcag	X75384
66183	gctcagtcagaattcacgagtgatc	X75384
66184	cgcttcacagaggggcactgaccgc	X75384
66185	agaagtcacctgcagactacaacca	X75384
66186	agtcacctgcagactacaaccacac	X75384
66187	cagactacaaccacacaagccactg	X75384
66188	acaaccacacaagccactgaggggt	X75384
66189	acacaagccactgaggggtcgaggc	X75384
66190	gtgcctactcaagaactctacaaca	AA063841
66191	cctactcaagaactctacaacaagc	AA063841
66192	tccaagaagacaaccgtgtggacag	AA063841
66193	aagacaaccgtgtggacagctgcca	AA063841
66194	accgtgtggacagctgccagggaga	AA063841
66195	gaggaccactcatgtgtgaaaagcc	AA063841
66196	gaccactcatgtgtgaaaagcctga	AA063841
66197	agcctgatgagtcctgggttgtgta	AA063841
66198	ctgatgagtcctgggttgtgtatgg	AA063841
66199	gagtcaaagacactcctggagttta	AA063841
66200	tcaaagacactcctggagtttatac	AA063841
108737	gacaagcagactctgttgcaaaatg	Y00635
108738	gaccagtacagccatctccaaggaa	Y00635
108739	tgaactcagcaggactcagggtgtc	Y00635
108740	ttctatccagcacccagaatcaaaa	Y00635
108741	ccagcacccagaatcaaaacaatgc	Y00635
108742	tcaaccctacaggtagactgcaagc	Y00635
108743	aagcttggaggagccagtggtatga	Y00635
108744	tgtcaaccttgtttggggttctcag	Y00635
108745	cctcgaggcacgtatcagtgtcaag	Y00635
108746	ggcacgtatcagtgtcaaggagcaa	Y00635
108747	aacataggcaccatatccggcttta	Y00635
108748	ggcaccatatccggctttatcttcg	Y00635
108749	atatccggctttatcttcgctgagg	Y00635
108750	gtcatcagcatcttcttccttgctc	Y00635
108751	agcatcttcttccttgctcttggtg	Y00635
108752	cttgctcttggtgtatatctcattg	Y00635
108753	ttggtcacctctggagttctgctgg	AA064307
108754	acctctggagttctgctggccatct	AA064307
108755	tggagccctacaggagaaaggctgg	AA064307
108756	gaagacccttattacacggagaatg	AA064307
108757	ggctatagctcaggacctggggcct	AA064307
108758	agctcaggacctggggcctccactg	AA064307
108759	ggggcctccactgagactcagggaa	AA064307
108760	aatgtgacccgaggggctcaggaga	AA064307
108761	caggcacttccagaaacggccattc	AA064307
108762	gaaacggccattcagcaagacaaca	AA064307
108763	gccattcagcaagacaacatgtggt	AA064307
108764	attcagcaagacaacatgtggtggc	AA064307
108765	ggagttctgctggccatcttgggca	AA064307
108766	ctgctggccatcttgggcaccactg	AA064307
108767	ctggccatcttgggcaccactggtt	AA064307
108768	gccatcttgggcaccactggttatt	AA064307
108769	ggcaccactggttatttcctgatga	AA064307
108770	ggttatttcctgatgaaccgtcgca	AA064307
108771	tatttcctgatgaaccgtcgcagtt	AA064307
108772	ttcctgatgaaccgtcgcagttgga	AA064307
108773	gacccagagttgtcttgctgcggcg	M83312
108774	tcttgctgcggcgttcactgtaagg	M83312
108775	gatccctgggacttcatggtaaaag	M83312
108776	gaaccaaatccagagggttgtcatt	M83312
108777	ttgacctccatgtgtgctctgtggt	M83312
108778	tccatgtgtgctctgtggtaatgta	M83312
108779	taatgtaccccgtgtgtgcacatgt	M83312
108780	accccgtgtgtgcacatgtgcacat	M83312
108781	cacatgtgcacatatcctaaaatgg	M83312
108782	tgcacatatcctaaaatggatgtgg	M83312
108783	tttctacctgtgtgttaccatttag	M83312
108784	gaataaagacacactcaacctttat	M83312
108785	tgcggcgttcactgtaaggagtcgt	M83312
108786	tagagggcacctggttgccatcagc	M83312
108787	gcacctggttgccatcagcagggta	M83312
108788	ggttgccatcagcagggtactggct	M83312
108789	tttatacaatggcatctcagaaact	M83312
108790	caatggcatctcagaaactctagca	M83312
108791	catctcagaaactctagcaggtggg	M83312
108792	gattttgatccctgggacttcatgg	M83312
108793	ggaaattctgtggggccttggcacg	W10865
108794	cttggcacgaaacccaccaacgcag	W10865
108795	atcctgcaacacatatcctgaacaa	W10865
108796	cctgcaacacatatcctgaacaagg	W10865
108797	tgcaacacatatcctgaacaaggag	W10865
108798	acacatatcctgaacaaggagcagg	W10865
108799	acatatcctgaacaaggagcaggga	W10865
108800	atatcctgaacaaggagcagggagc	W10865
108801	atcctgaacaaggagcagggagcta	W10865
108802	ctattaagacttcgtcgaggggctg	W10865
108803	cgtcgaggggctgcggtctttgata	W10865
108804	tcgaggggctgcggtctttgataag	W10865

TABLE 1

SEQ ID NO	sequence	DBAxnID
23597	atggacacggtccgcagcgacgtgc	W71076
23598	ctcccgcagatgttcctacttcaag	W71076
23599	ccgcagatgttcctacttcaagtgg	W71076
23600	gcagatgttcctacttcaagtggcg	W71076
23601	gatgttcctacttcaagtggcggca	W71076
23602	atgttcctacttcaagtggcggcag	W71076
23603	gttcctacttcaagtggcggcagaa	W71076
23604	ttcctacttcaagtggcggcagaat	W71076
23605	ctacagcactcattagagcagagcc	W71300
23606	acagcactcattagagcagagccta	W71300
23607	agctctctagacgtatacaatgact	W71300
23608	ctctctagacgtatacaatgactca	W71300
23609	gtatacaatgactcagttcttggaa	W71300
23610	atacaatgactcagttcttggaacc	W71300
23611	aatgactcagttcttggaaccgaga	W71300
23612	tgactcagttcttggaaccgagagg	W71300
23613	gatccaaaggctcattcagcctgtg	W71300
23614	gtaacatgaaccagatactggatgc	W71300
23615	aaccagatactggatgcagtcagta	W71300
23616	atactggatgcagtcagtatagaca	W71300
23617	ctcattagagcagagcctagcctac	W71300
23618	agagcagagcctagcctactctatc	W71300
23619	agcagagcctagcctactctatccc	W71300
23620	cagagcctagcctactctatcccta	W71300
23621	ccgcttcccaagctctctagacgta	W71300
23622	gcttcccaagctctctagacgtata	W71300
23623	cccaagctctctagacgtatacaat	W71300
23624	caagctctctagacgtatacaatga	W71300
23625	accagagccctctggctaatgctgt	D38410
23626	gccctctggctaatgctgttggtgg	D38410
23627	tgctttgactccagtatcccaaatg	D38410
23628	agtatcccaaatgtgccctggtgct	D38410
23629	ccaaatgtgccctggtgcttcaaac	D38410
23630	gtgccctggtgcttcaaacctctgc	D38410
23631	tggtgcttcaaacctctgcaggaga	D38410
23632	agctgtccaggctccaggaagggag	D38410
23633	caccctggactcctgctgctgatgg	D38410
23634	ggactcctgctgctgatggtggtcc	D38410
23635	ctgctgctgatggtggtccaagggt	D38410
23636	gaataaagacctcacagccaacaca	D38410
23637	gtcctggttgctgggtcctctggga	D38410
23638	caacacaaggctgatctgattgctg	D38410
23639	tacgttggcctgtctccaagccaat	D38410
23640	ggcctgtctccaagccaatgtatgg	D38410
23641	tgtatggtgccggcaaatgtcagag	D38410
23642	tacccctctgtcacatcggagcagt	D38410
23643	tctgtcacatcggagcagtgtaaca	D38410
23644	tgtaacaaccgtggctgctgctttg	D38410
23645	aaccgtggctgctgctttgactcca	D38410
23646	ctctttactccccagtaggagatca	U18542
23647	actccccagtaggagatcatctaag	U18542
23648	actgcctttcagaggtgatttagtt	U18542
23649	acatgcttggtgtacccagagaaac	U18542
23650	tgtggaccttggatactgagagttg	U18542
23651	tttcaatcacagtgttacctggtga	U18542
23652	tacacacatcgaaatcagtgtattt	U18542
23653	tgtatttcaggcagctctagtacaa	U18542
23654	aaatcaaactgacttaccataacat	U18542
23655	ttgcatgtcatacctaaattgtggg	U18542
23656	gaaacgcttctgctgtgtacatgta	U18542
23657	cttctgctgtgtacatgtataaata	U18542
23658	tgaataaaccaataccatcacagat	U18542
23659	taccatcacagatttctgaatctgc	U18542
23660	tttctgaatctgcaacagtaaccag	U18542
23661	aatctgcaacagtaaccagtcatca	U18542
23662	taaccagtcatcattacttaatttg	U18542
23663	gtcatcattacttaatttgtatgct	U18542
23664	gagaccctcaaaatctcctgctcac	U18542

SEQ ID NO:	sequence	DBAxnID
66201	aagacactcctggagtttataccag	AA063841
66202	actcaagaactctacaacaagctgc	AA063841
66203	caagaactctacaacaagctgctgt	AA063841
66204	gaactctacaacaagctgctgtgcc	AA063841
66205	ctctacaacaagctgctgtgcctct	AA063841
66206	aagctgctgtgcctctgttacccaa	AA063841
66207	ctgctgtgcctctgttacccaagag	AA063841
66208	ctgtgcctctgttacccaagaggtt	AA063841
66209	tgctctgtgctgggaacctccaaga	AA063841
66210	tcttcctttgcaaaggtgacttgct	X84000
66211	aaggtgacttgctggtgatgtattt	X84000
66212	acctgtactgcaatcctctaacaga	X84000
66213	actgcaatcctctaacagaagtcac	X84000
66214	atcctctaacagaagtcactaggaa	X84000
66215	aagtcactaggaacacatctaatgt	X84000
66216	cttgcaacaacacttaaaatgaact	X84000
66217	ggcttacctgtgtgttcagcaatct	X84000
66218	tgttcagcaatctcagccccacatt	X84000
66219	ggagaactcttctctaatgaatgta	X84000
66220	ctcttctctaatgaatgtagtaaca	X84000
66221	ttacagtgcgtactgaagcatgttt	X84000
66222	ttgccccaggtcgtgtgtattcagt	X84000
66223	tagaggcttcagcatctcatgaagg	X84000
66224	cttcagcatctcatgaaggatactt	X84000
66225	tttgtatcccagtcaaacaacacat	X84000
66226	tcccagtcaaacaacacatatgtca	X84000
66227	tcaaacaacacatatgtcaagcaca	X84000
66228	aacacatatgtcaagcacaggacaa	X84000
66229	taacatacctgtactgcaatcctct	X84000
66230	tgaagccacttaaaaacaccacagt	U09772
66231	ccacagttctggtagtttgaacata	U09772
66232	tggcaaacagacttccatcctggta	U09772
66233	ttccatcctggtacctgtttgcagc	U09772
66234	cctggtacctgtttgcagcattttt	U09772
66235	tttgattcaatatacacatgaattt	U09772
66236	tcaatatacacatgaatttggattg	U09772
66237	gcagttttctgatctgggtgtcttc	U09772
66238	ttctgatctgggtgtcttctatcta	U09772
66239	agggcatacatacatctccatgtgt	U09772
66240	tacatacatctccatgtgtatgtgt	U09772
66241	atttctcctatgctatggttgttac	U09772
66242	atccaatggctgctttgagtgtcaa	U09772
66243	gtgtcaactcagcaaatctgtgccc	U09772
66244	caaatctgtgccccgaaagatcaag	U09772
66245	tgacacagatccctatatttaggat	U09772
66246	ttaggatcccgggagctctgagaga	U09772
66247	tcacttattgggcatttgcatttct	U09772
66248	catttgcatttctatctgactgccc	U09772
66249	catttctatctgactgcccacaggt	U09772
66250	gctcctggacactacacctacagca	X89222
66251	tcctggacactacacctacagcagc	X89222
66252	gagtacgctctgctattcagcagag	X89222
66253	acgctctgctattcagcagaggcac	X89222
66254	tctgctattcagcagaggcaccaag	X89222
66255	tgctattcagcagaggcaccaaggg	X89222
66256	ctattcagcagaggcaccaagggcc	X89222
66257	cagaggcaccaagggcccaggccag	X89222
66258	aggccaggacttccgcatggccacc	X89222
66259	cagcagaacccagactctgaaggac	X89222
66260	gcagaacccagactctgaaggacga	X89222
66261	agaacccagactctgaaggacgagc	X89222
66262	cactcgggcagcatccactccgtgt	X89222
66263	ctcgggcagcatccactccgtgtca	X89222
66264	ggcagcatccactccgtgtcagtgg	X89222
66265	cagcatccactccgtgtcagtggtg	X89222
66266	gcatccactccgtgtcagtggtgga	X89222
66267	actatgacgagtacgctctgctatt	X89222
66268	tatgacgagtacgctctgctattca	X89222

SEQ ID NO:	sequence	DBAxnID
108805	tggcacgaaacccaccaacgcagag	W10865
108806	ttttggcaaacccagactgtagaga	W10865
108807	ttggcaaacccagactgtagagatg	W10865
108808	ggcaaacccagactgtagagatgag	W10865
108809	caaacccagactgtagagatgagtt	W10865
108810	tctaaacactggagttctagatgtt	W10865
108811	agttctagatgtttctgcgcatcct	W10865
108812	gcatcctgcaacacatatcctgaac	W10865
108813	gaggtcttcaacaacaagttccaca	L08115
108814	ttcaacaacaagttccacatcattg	L08115
108815	atgatcttcagcatgatcctgtgct	L08115
108816	atgatcctgtgctgcgccatccgca	L08115
108817	ctgtgctgcgccatccgcaggagcc	L08115
108818	gaacaacggccctgaagactgtccg	L08115
108819	taaataacagtcattctgtttgtcc	L08115
108820	ataacagtcattctgtttgtccttt	L08115
108821	aaatcctgcaatgaaaggtactata	L08115
108822	tatatttgccagactctagacataa	L08115
108823	atttgccagactctagacataagat	L08115
108824	tgccagactctagacataagatatt	L08115
108825	ttccacatcattggagcagtgggta	L08115
108826	cacatcattggagcagtgggtatcg	L08115
108827	atcattggagcagtgggtatcggca	L08115
108828	atcggcatcgccgtggtgatgatct	L08115
108829	ggcatcgccgtggtgatgatcttcg	L08115
108830	atcgccgtggtgatgatcttcggca	L08115
108831	atgatcttcggcatgatcttcagca	L08115
108832	ttcggcatgatcttcagcatgatcc	L08115
108833	gctgctggcattgccatggaagcca	W53731
108834	ggcattgccatggaagccattgcct	W53731
108835	gctggccgcatgcaagacaatgccc	W53731
108836	aatgcccctctgatgactgccctgg	W53731
108837	cctctgatgactgccctggccaaac	W53731
108838	atgactgccctggccaaactcatta	W53731
108839	gccctggccaaactcattactgtca	W53731
108840	ctggccaaactcattactgtcaata	W53731
108841	attactgtcaatacacctgacttgg	W53731
108842	actgtcaatacacctgacttggtgc	W53731
108843	aatacacctgacttggtgctgtttg	W53731
108844	acacctgacttggtgctgtttgtag	W53731
108845	gccatggaagccattgcctttgcac	W53731
108846	atggaagccattgcctttgcacgta	W53731
108847	gaagccattgcctttgcacgtaacc	W53731
108848	cgtaaccaaggctttgatgtggtgc	W53731
108849	tttgatgtggtgctggtagacactg	W53731
108850	ctggtagacactgctggccgcatgc	W53731
108851	gtagacactgctggccgcatgcaag	W53731
108852	gacactgctggccgcatgcaagaca	W53731
108853	gtgactcttgctactgactccaacg	X66084
108854	cttgctactgactccaacgttaatg	X66084
108855	agacctcagattccagaatggctca	X66084
108856	ccagaatggctcatcatcttggcat	X66084
108857	tggctcatcatcttggcatctctcc	X66084
108858	ttggcatctctcctggcactggctc	X66084
108859	tctctcctggcactggctctgattc	X66084
108860	cttgccgtctgcatcgcggtcaata	X66084
108861	gtctgcatcgcggtcaatagtagga	X66084
108862	tcagagaccccagaccagtgtatga	X66084
108863	accccagaccagtgtatgacagctg	X66084
108864	acagctgacgagacccggaatctgc	X66084
108865	gttgatggctccttaccaggagatc	X66084
108866	tgtagtgccctacgccattgaattc	X66084
108867	ggctccttaccaggagatcgagact	X66084
108868	tcccgcactgtgactcatggatccg	X66084
108869	actgtgactcatggatccgaattag	X66084
108870	gctggacactcaagtgcgaaccagg	X66084
108871	cactcaagtgcgaaccaggacagtg	X66084
108872	agtgcgaaccaggacagtggagtga	X66084

TABLE 1

SEQ ID NO	sequence	DBAxnID
23665	taatcttttgtcactgcctttcaga	U18542
23666	acattgtccagggtattgaaagtgc	U14133
23667	ctgagatcctgcaggctgtgccatt	U14133
23668	tacaccaagtgctgaaaggtggctc	U14133
23669	catattgcctcaatgtgtctttggc	U14133
23670	gcctcaatgtgtctttggctgacgc	U14133
23671	atgtgtctttggctgacgccaacag	U14133
23672	ccaacagcctggcagtggccagcac	U14133
23673	ctcccttgcttgtaggtatcttgct	U14133
23674	taggtatcttgctggtgttggtggc	U14133
23675	tccttgcatctctgatactaggcat	U14133
23676	aatgccacatggtagcactcactgc	U14133
23677	acatggtagcactcactgctgcgcc	U14133
23678	atgcatttgagctgactgtgtcctg	U14133
23679	gctcctcagtggacagcaggtctga	U14133
23680	ttgagctgactgtgtcctgccaagg	U14133
23681	tacccaaggaagcctgtatggacat	U14133
23682	tggacatttcatcaccagggtgcca	U14133
23683	ctgcccagaggctgtgccagtctgt	U14133
23684	agaggctgtgccagtctgttccacc	U14133
23685	tgtgccagtctgttccaccgagccc	U14133
23686	cagactgccagctggttctacacca	U14133
23687	tctctgaggcaagtcaccaggtagc	W71472
23688	aggcaagtcaccaggtagctcatct	W71472
23689	acaattgggtaccgcggtggatgct	W71472
23690	attgggtaccgcggtggatgctgaa	W71472
23691	taccgcggtggatgctgaagtacac	W71472
23692	tgaagtacacggtcatcgtgaacag	W71472
23693	agtacacggtcatcgtgaacagccg	W71472
23694	acacggtcatcgtgaacagccgggg	W71472
23695	cggtcatcgtgaacagccggggtat	W71472
23696	tcatcgtgaacagccggggtatgat	W71472
23697	tcgtgaacagccggggtatgatcta	W71472
23698	tgaacagccggggtatgatctagtc	W71472
23699	caagtcaccaggtagctcatctaga	W71472
23700	gtcaccaggtagctcatctagaaag	W71472
23701	accaggtagctcatctagaaagcat	W71472
23702	tagctcatctagaaagcatacatga	W71472
23703	aaagcatacatgacactgaagccca	W71472
23704	tacatgacactgaagcccacaattg	W71472
23705	atgacactgaagcccacaattgggt	W71472
23706	ctgaagcccacaattgggtaccgcg	W71472
23707	tgtccctggcatcccagagccatgc	W70714
23708	tggcatcccagagccatgctgtgtt	W70714
23709	agaagacagacctgcttcatccctg	W70714
23710	cctgccctgcagagtggcaatcttg	W70714
23711	ggcaatcttggagccagggcttgac	W70714
23712	aatcttggagccagggcttgactcg	W70714
23713	gttccaggtgctagacagagcttac	W70714
23714	cagagcttacaggcagccctgctgg	W70714
23715	agcttacaggcagccctgctgggac	W70714
23716	ttacaggcagccctgctgggaccaa	W70714
23717	gcagccctgctgggaccaagaaaga	W70714
23718	gccctgctgggaccaagaaagatct	W70714
23719	agagccatgctgtgttccagacaag	W70714
23720	ctgtgttccagacaagatgaactcc	W70714
23721	tggagtcctttttcctggatgaaaat	W70714
23722	ccccaatatgtccgtagagacctgt	W70714
23723	caatatgtccgtagagacctgtgcc	W70714
23724	tatgtccgtagagacctgtgcctgt	W70714
23725	cgtagagacctgtgcctgtcggtaa	W70714
23726	ctgtgcctgtcggtaagatggcttc	W70714
23727	cagacccaacagggaatgaagtcca	U22394
23728	agacaggcagcttgcttgcacacac	U22394
23729	gaagttcaccttcttccctcttctg	U22394
23730	ggttctcggcctcaacaaattccag	U22394
23731	cggcctcaacaaattccagtcagtc	U22394
23732	ttttagctcccatgggactgttttg	U22394

SEQ ID NO:	sequence	DBAxnID
66269	acgagtacgctctgctattcagcag	X89222
66270	catgatgacgtgctacctgttccac	X83932
66271	ggacccggccggcgatgaatatgaa	X83932
66272	ccacactctagaagagcacaaccta	X83932
66273	agagcacaacctagccaattacatg	X83932
66274	gcacactggtcaggagtcgtatgtc	X83932
66275	cactggtcaggagtcgtatgtctgg	X83932
66276	agactgtttccgcaagcagtatgag	X83932
66277	ggaccagcttagctgaggtctgcag	X83932
66278	tcaagtgccttctccactgcgagct	X83932
66279	atgatcctgaactagaccaataaat	X83932
66280	aactagaccaataaatcctgtgcta	X83932
66281	tagaccaataaatcctgtgctacac	X83932
66282	cttcttcgttatcgtcattctgctg	X83932
66283	cttcgttatcgtcattctgctggct	X83932
66284	cgttatcgtcattctgctggctatc	X83932
66285	cgtcattctgctggctatcattcag	X83932
66286	cattctgctggctatcattcagggt	X83932
66287	tctgctggctatcattcagggtctg	X83932
66288	gtgcttcatctgtggaataggcagt	X83932
66289	tgagacccacactctagaagagcac	X83932
66290	tagctcctgtttcgagcccaacagc	AA063914
66291	ctcctgtttcgagcccaacagccag	AA063914
66292	cattgctgccatcaagaccaagaga	AA063914
66293	tgctgccatcaagaccaagagaact	AA063914
66294	tgccatcaagaccaagagaactatt	AA063914
66295	tattcagtttgttgactggtgtcca	AA063914
66296	tgttgactggtgtccacaggtttca	AA063914
66297	tgactggtgtccacaggtttcaggt	AA063914
66298	gtgtccacaggtttcaggtgggcat	AA063914
66299	tccacaggtttcaggtgggcatcaa	AA063914
66300	accagccacctactgtcgtgccagg	AA063914
66301	agccacctactgtcgtgccaggagg	AA063914
66302	ctgtttcgagcccaacagccagatg	AA063914
66303	tttcgagcccaacagccagatggtg	AA063914
66304	gcccaacagccagatggtgaagtgt	AA063914
66305	gaagtgtgacccacgtcatggcaaa	AA063914
66306	ctgctgcatgctctaccgcggtgat	AA063914
66307	ctaccgcggtgatgtggtacccaag	AA063914
66308	tgatgtggtacccaaggacgtgaat	AA063914
66309	tgtggtacccaaggacgtgaatgtc	AA063914
66310	attacatccgtagtaacaaagctgt	X83933
66311	aagctgtgggcttcctcatatttct	X83933
66312	cacctgtgatcagtcattggttaag	X83933
66313	tgatcagtcattggttaaggaccct	X83933
66314	ggacccttgacaggccatcttttga	X83933
66315	ttgacaggccatcttttgatatcca	X83933
66316	ggccatcttttgatatccaacgtga	X83933
66317	atatccaacgtgaagcaatatccat	X83933
66318	aagcaatatccattcagagatttca	X83933
66319	tatccattcagagatttcattggtt	X83933
66320	tgaccatgtacatcgattcattttt	X83933
66321	cattctgcgaacattggagatcttt	X83933
66322	tgggcttcctcatatttctggagtc	X83933
66323	tcctcatatttctggagtcagtgtc	X83933
66324	tatttctggagtcagtgtcatccac	X83933
66325	cagtgtcatccaccgacagttggaa	X83933
66326	catccaccgacagttggaaccatcg	X83933
66327	gttggaaccatcgccaatgtgacag	X83933
66328	accatcgccaatgtgacagtagtct	X83933
66329	tttggccacctgtgatcagtcattg	X83933
66330	tattagagctgctgccgcgtctcct	AA063776
66331	ttagagctgctgccgcgtctcctgg	AA063776
66332	actgcctcaccagcgaggcgtgcct	AA063776
66333	ggcattctgctcagagcggaggagc	AA063776
66334	cattctgctcagagcggaggagctc	AA063776
66335	tctgctcagagcggaggagctcatc	AA063776
66336	ctgctcagagcggaggagctcatct	AA063776

SEQ ID NO	sequence	DBAxnID
108873	acttctggtcctatgaggagacctc	X66084
108874	gctcgttactccactccggttgaca	U58633
108875	tactccactccggttgacatctgga	U58633
108876	ttcctctcaaaaatgctagtctatg	U58633
108877	atgctagtctatgatcctgccaaac	U58633
108878	gtctatgatcctgccaaacgaatct	U58633
108879	gatcctgccaaacgaatctctggca	U58633
108880	gccaaacgaatctctggcaaaatgg	U58633
108881	gccctgaagcacccgtactttgatg	U58633
108882	aagcacccgtactttgatgacttgg	U58633
108883	ttgtttaccgttggctctcttcctg	U58633
108884	accgttggctctcttcctgtcttgt	U58633
108885	taaactgtcatctggacttttctta	U58633
108886	actccggttgacatctggagtatag	U58633
108887	ttcagagctcttgggactcctaaca	U58633
108888	gctcttgggactcctaacaacgaag	U58633
108889	ccagaagtcgagtccctgcaggact	U58633
108890	tccctgcaggactacaagaacacct	U58633
108891	ctcgcatcccacgtcaagaacctgg	U58633
108892	tcccacgtcaagaacctggacgaga	U58633
108893	ttggatttcctctcaaaaatgctag	U58633
108894	gtgcccaccgttcttaggcatcagc	AA097018
108895	cccaccgttcttaggcatcagcatg	AA097018
108896	cgggatccactgttcggcagagaaa	AA097018
108897	gggatccactgttcggcagagaaaa	AA097018
108898	aaatgccagctgtgggacccggagc	AA097018
108899	tctacacggaagattccccagggct	AA097018
108900	ggaagattccccagggctcaaagtg	AA097018
108901	tcaaagtgggccctgtcccagtgct	AA097018
108902	caaagtgggccctgtcccagtgctg	AA097018
108903	tgtcccagtgctggtgatgagtctt	AA097018
108904	gatgagtcttctgttcatcgctgct	AA097018
108905	tgagtcttctgttcatcgctgctgt	AA097018
108906	tcttaggcatcagcatgccgggtcc	AA097018
108907	gagtcttctgttcatcgctgctgta	AA097018
108908	caacgcccagtggcaccaacgtggg	AA097018
108909	ccagtggcaccaacgtgggctcctc	AA097018
108910	tggcaccaacgtgggctcctctggc	AA097018
108911	gctctcccagcaaagcggtggccgc	AA097018
108912	ctctcccagcaaagcggtggccgca	AA097018
108913	ctcccagcaaagcggtggccgcacg	AA097018
108914	ccagcaaagcggtggccgcacgggc	AA097018
108915	gcatgtatttaacccacagaatgct	D12712
108916	gaatgcttactgtgtgtcgggcgcg	D12712
108917	ccaggctctctactgggcgttaggg	D12712
108918	tccttcaaggattgctcagagattc	D12712
108919	taaatctgctgaaaccagaccccag	D12712
108920	tgctgaaaccagaccccagactcct	D12712
108921	tcccgagagtccaactcactcactg	D12712
108922	ctcactgtggttgctggcagctgca	D12712
108923	agctgcagcatgcgtatacagcatg	D12712
108924	ctgtgcgttatggttcaggtcagac	D12712
108925	ctgtgtcctcccaggtgagatgacc	D12712
108926	gatgacccctcagctggaactgatc	D12712
108927	tgcccctactggaaggtattatgta	D12712
108928	ttctctcttacattggagaacacca	D12712
108929	ttggagaacaccaccgagctatcca	D12712
108930	accgagctatccactcatcaaacat	D12712
108931	ctatccactcatcaaacatttattg	D12712
108932	actcatcaaacatttattgagagca	D12712
108933	gagagcatccctagggagccaggct	D12712
108934	atccctagggagccaggctctctac	D12712
108935	gtcatcattgtgttcctctgtgaat	L16926
108936	attgtgttcctctgtgaattctcct	L16926
108937	gcgagcccacaatagtgactatgac	L16926
108938	aatacactacagaccctggacagaa	L16926
108939	ctacagaccctggacagaaggagtc	L16926
108940	aggagtcatcttccatgtcgctaat	L16926

TABLE 1

SEQ ID NO	sequence	DBAxnID
23733	ctcccatgggactgttttgtacctg	U22394
23734	gtacctgcttctttactagtctgcc	U22394
23735	gcttctttactagtctgccctagtg	U22394
23736	ttactagtctgccctagtgccatcc	U22394
23737	acgcacacatgcacacacatgcaca	U22394
23738	atgcacacacacacaattttaacttt	U22394
23739	cacacaccagcagagctcaactaca	U22394
23740	ccagcagagctcaactacaacttcc	U22394
23741	gagctcaactacaacttcctatgac	U22394
23742	aactacaacttcctatgacctgagc	U22394
23743	caaccagatgctgtccccatttgga	U22394
23744	ccctgacttgagcacagctaagatc	U22394
23745	cacagctaagatctctgttagattt	U22394
23746	ttatctgagacctgtttggctttgg	U22394
23747	ttcggcacaggcttcacagtagatt	AA038511
23748	cggcacaggcttcacagtagattgc	AA038511
23749	atggtggcccctatcacattggtgg	AA038511
23750	ggtggcccctatcacattggtggaa	AA038511
23751	tggcccctatcacattggtggaagt	AA038511
23752	ccctatcacattggtggaagtccct	AA038511
23753	taaagccaaggtcacaggtcctcgt	AA038511
23754	caaggtcacaggtcctcgtcttgta	AA038511
23755	aggtcacaggtcctcgtcttgtaag	AA038511
23756	gtcacaggtcctcgtcttgtaagca	AA038511
23757	cacaggtcctcgtcttgtaagcaac	AA038511
23758	caggtcctcgtcttgtaagcaacca	AA038511
23759	acaggcttcacagtagattgcagca	AA038511
23760	aatgcaggagctggtgccctttcgg	AA038511
23761	tgccctttcggttaccattgatggc	AA038511
23762	gccccgaggcgtatcgtgtcaccta	AA038511
23763	gcgtatcgtgtcacctatacccca	AA038511
23764	gtatcgtgtcacctatacccccatg	AA038511
23765	ataccccatggcacctggcagcta	AA038511
23766	tctccatcaagtatggtggccccta	AA038511
23767	aatatgtaccaactgattttggacg	W71504
23768	atatgtaccaactgattttggacga	W71504
23769	tatggttggcagtggtctgtcgatc	W71504
23770	tggttggcagtggtctgtcgatccg	W71504
23771	cagtggtctgtcgatccgtcattgg	W71504
23772	agtggtctgtcgatccgtcattgga	W71504
23773	gtggtctgtcgatccgtcattggag	W71504
23774	tggtctgtcgatccgtcattggagg	W71504
23775	ggtctgtcgatccgtcattggagga	W71504
23776	gtctgtcgatccgtcattggaggaa	W71504
23777	tctgtcgatccgtcattggaggaat	W71504
23778	ctgtcgatccgtcattggaggaatg	W71504
23779	tatgtaccaactgattttggacgac	W71504
23780	tgtcgatccgtcattggaggaatgt	W71504
23781	atgtaccaactgattttggacgact	W71504
23782	tgtaccaactgattttggacgacta	W71504
23783	gtaccaactgattttggacgactat	W71504
23784	taccaactgattttggacgactatg	W71504
23785	ttctagtatggttggcagtggtctg	W71504
23786	tctagtatggttggcagtggtctgt	W71504
23787	gtatggttggcagtggtctgtcgat	W71504
23788	ttgccaccatgaacttctccggcaa	AA087320
23789	ccaccatgaacttctccggcaagta	AA087320
23790	gtctgcccgaggacctcatccagaa	AA087320
23791	acctcatccagaaagggaaggacat	AA087320
23792	aaatcaaactcaccatcacctatgg	AA087320
23793	tcaccatcacctatggacccaaagt	AA087320
23794	ccatcacctatggacccaaagtggt	AA087320
23795	atggacccaaagtggtccgcaatga	AA087320
23796	gacccaaagtggtccgcaatgagtt	AA087320
23797	aagtcaaggcagtcgtcaagctgga	AA087320
23798	tcaaggcagtcgtcaagctggaagg	AA087320
23799	cagtcgtcaagctggaaggtgacaa	AA087320
23800	tgaacttctccggcaagtaccaatt	AA087320

SEQ ID NO:	sequence	DBAxnID
66337	ttgaagaagccgcggagagactcgt	AA063776
66338	aagccgcggagagactcgtggtttg	AA063776
66339	agagactcgtggtttgagggtcaga	AA063776
66340	ctcgtggtttgagggtcagaggcat	AA063776
66341	tcagaggcatcggcacggaacttgg	AA063776
66342	tagagctgctgccgcgtctcctggg	AA063776
66343	aggcatcggcacggaacttggaccg	AA063776
66344	agctgctgccgcgtctcctgggctc	AA063776
66345	acgcccagaggatcccgaactgcct	AA063776
66346	aggatcccgaactgcctcaccagcg	AA063776
66347	ggatcccgaactgcctcaccagcga	AA063776
66348	atcccgaactgcctcaccagcgagg	AA063776
66349	ccgaactgcctcaccagcgaggcgt	AA063776
66350	aactgcctcaccagcgaggcgtgcc	AA063776
66351	caatccccaaacagctgaattactt	AA107211
66352	atccccaaacagctgaattactttg	AA107211
66353	aaggcaatcctgcagtctgtgtacg	AA107211
66354	ggcaatcctgcagtctgtgtacgag	AA107211
66355	caatcctgcagtctgtgtacgagtg	AA107211
66356	tgagaaactcggacagcagagcatt	AA107211
66357	aaactcggacagcagagcattgata	AA107211
66358	actcggacagcagagcattgatatt	AA107211
66359	ccaacataaaagctatcggtgtcac	AA107211
66360	aaagctatcggtgtcaccaaccagc	AA107211
66361	agctatcggtgtcaccaaccagcgg	AA107211
66362	ctatcggtgtcaccaaccagcggga	AA107211
66363	ccaaacagctgaattacttgtcat	AA107211
66364	gaattactttgtcatcatcaagtgg	AA107211
66365	attactttgtcatcatcaagtggaa	AA107211
66366	ttgtcatcatcaagtggaaatagcc	AA107211
66367	gagcaagacccaaaggcaatcctgc	AA107211
66368	gcaagacccaaaggcaatcctgcag	AA107211
66369	cccaaaggcaatcctgcagtctgtg	AA107211
66370	caaaggcaatcctgcagtctgtgta	AA107211
66371	ctctatatcactgaacagccatctg	X83934
66372	atcactgaacagccatctgaggatg	X83934
66373	tttctctaccttgcctggtacacaa	X83934
66374	tacacaaccatgtctgtcctgggcc	X83934
66375	accatgtctgtcctgggccactaca	X83934
66376	tctgtcctgggccactacaacaact	X83934
66377	tttgctgctcatctgttggatattg	X83934
66378	acgatcctgtcatctgtaactcaca	X83934
66379	actcacaatggcaaacagctggttc	X83934
66380	ctggttctgaccgttggcctcctgg	X83934
66381	ctcctggctgtggttgtttacctct	X83934
66382	tacctctatactgtggtggctttca	X83934
66383	gaacagccatctgaggatgacatca	X83934
66384	ttggtaatcaacacgccatcttttc	X83934
66385	cgcatcgctgaactcctgggtttgg	X83934
66386	aatgcccttgactttagcccagtag	X83934
66387	gcagcatctctggtgtcatggctaa	X83934
66388	tggctaagttccatcgacatgaagt	X83934
66389	gttttcactgacaactcctttctct	X83934
66390	actgacaactcctttctctaccttg	X83934
66391	gaccatcagcaccgagaaccccaaa	X75316
66392	gactggctttggtcagtagttcact	X75316
66393	gttgctgtgccatgggggccttctt	X75316
66394	tcccgttgtcacctgtgccagtctg	X75316
66395	ctgtgccagtctgacctagctgcac	X75316
66396	gacctagctgcacagagagaaggtc	X75316
66397	tatctctggcagcatgggctgcccg	X75316
66398	acacctacctcagggagccagtgtg	X75316
66399	gggaactccacagcatgcctgttag	X75316
66400	tccacagcatgcctgttagtcaagg	X75316
66401	gcatgcctgttagtcaaggcctgga	X75316
66402	ctgttagtcaaggcctggaggacag	X75316
66403	ctttggtcagtagttcactgtggag	X75316
66404	tcagtagttcactgtggagacaatg	X75316

SEQ ID NO	sequence	DBAxnID
108941	catcttccatgtcgctaatcccgtg	L16926
108942	cgctaatcccgtgattatgtctgca	L16926
108943	gattatgtctgcaaacatgggcaga	L16926
108944	gtctgcaaacatgggcagagccagg	L16926
108945	taaatgcctttcgtcctagcactaa	L16926
108946	cagcctggtctacatgtgaccttgt	L16926
108947	ttcctctgtgaattctcctccgaga	L16926
108948	tgtgaattctcctccgagagaggcc	L16926
108949	gacagggctctgaaccagtatccgg	L16926
108950	tattaccctgagctatatatcctca	L16926
108951	agagatttctttccagagtatatgg	L16926
108952	tgtgacccacagagctactgtccca	L16926
108953	atgcttcaccaggaccaccaggctg	L16926
108954	cagattgccctcctggtgaagggtg	L16926
108955	ccatccactgtggatagtgattata	W11132
108956	agtgattatagtccagcccaagtgc	W11132
108957	ctttatcaatgttctcattgagaat	W11132
108958	tatcaatgttctcattgagaataac	W11132
108959	gaataacgtcagcgtgtcgaatcgc	W11132
108960	taacgtcagcgtgtcgaatcgctac	W11132
108961	cagcgtgtcgaatcgctacggtccc	W11132
108962	cgtgtcgaatcgctacggtcccagg	W11132
108963	gtcgaatcgctacggtcccaggagt	W11132
108964	gaatcgctacggtcccaggagtatt	W11132
108965	tcgctacggtcccaggagtattcca	W11132
108966	tcccaggagtattccagttgatata	W11132
108967	gattatagtccagcccaagtgcatg	W11132
108968	tatagtccagcccaagtgcatgggc	W11132
108969	agtccagcccaagtgcatgggcatg	W11132
108970	ccagcccaagtgcatgggcatgctt	W11132
108971	caagtgcatgggcatgcttggaaac	W11132
108972	gcttggaaacgccatcatagtgaac	W11132
108973	tggaaacgccatcatagtgaacttt	W11132
108974	aaacgccatcatagtgaactttatc	W11132
108975	cgcaaaggccggctacactgaccag	W33721
108976	cggctacactgaccaggttgtcatt	W33721
108977	tcccgaccagctggctgatctgtac	W33721
108978	ccagctggctgatctgtacaagtcc	W33721
108979	cttcgtccagaactacccagtggtg	W33721
108980	ctacccagtggtgtccatcgaagat	W33721
108981	cccagtggtgtccatcgaagatccc	W33721
108982	gtccatcgaagatccctttgaccag	W33721
108983	cgcctggcagaagttcacggctagt	W33721
108984	gttcacggctagtgcgggcatccag	W33721
108985	cctcacagtgaccaaccctaagcgg	W33721
108986	cacagtgaccaaccctaagcggatt	W33721
108987	cactgaccaggttgtcattggcatg	W33721
108988	ccaggttgtcattggcatggatgtg	W33721
108989	ggttgtcattggcatggatgtggct	W33721
108990	tgcctccgagttctacaggtctggc	W33721
108991	ctccgagttctacaggtctggcaag	W33721
108992	gttctacaggtctggcaagtatgac	W33721
108993	ctacaggtctggcaagtatgacctg	W33721
108994	gtctccggatgaccccagcaggtac	W33721
108995	ccttgcaaagtgccacagttgaggc	M81483
108996	cttcccagggactctcacatcttgg	M81483
108997	aaaccattgtgctttctgagatccg	M81483
108998	ccattgtgctttctgagatccgtgc	M81483
108999	tcctggatggaggcttgagggccct	M81483
109000	ccctgggacttgtgccgtctataag	M81483
109001	tgggacttgtgccgtctataagatt	M81483
109002	gacttgtgccgtctataagattggg	M81483
109003	ttgtgccgtctataagattgggtaa	M81483
109004	tgggtaatcgctgccacagaggaga	M81483
109005	gtaatcgctgccacagaggagagca	M81483
109006	atcgctgccacagaggagagcagtg	M81483
109007	agggactctcacatcttgggcccca	M81483
109008	cacatcttgggccccaaatggacag	M81483

09/396196

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
23801	acttctccggcaagtaccaattgca	AA087320	66405	gacagtattctctgtgccagtgtcg	X75316	109009	ttgggccccaaatggacagatcact	M81483
23802	tctccggcaagtaccaattgcagag	AA087320	66406	attctctgtgccagtgtcgctgatg	X75316	109010	tggacagatcacttcaaggagctgg	M81483
23803	agtaccaattgcagagccaggagaa	AA087320	66407	tgtgccagtgtcgctgatggagctc	X75316	109011	acagatcacttcaaggagctggagg	M81483
23804	accaattgcagagccaggagaactt	AA087320	66408	agggctgccattaccagaccacggc	X75316	109012	aatgtcataatctctctgaagaaac	M81483
23805	agaactttgagccattcatgaaggc	AA087320	66409	tcctgtctgctgatgctgcccgcct	X75316	109013	ataatctctctgaagaaaccattgt	M81483
23806	ttgagccattcatgaaggcaatagg	AA087320	66410	gtgcccatcagggcgagttctcagg	X75316	109014	atctctctgaagaaaccattgtgct	M81483
23807	taggtctgcccgaggacctcatcca	AA087320	66411	acatcaaaccgtcaaacttcgccat	AA063968	109015	gattcaccgccatttcgtacaaagt	M12660
23808	atgtgttcgtgcagcacgggagact	L38622	66412	gtttcatgcttgattttggcttggc	AA063968	109016	accatcaattatcccacttgtgtat	M12660
23809	tcgtgcagcacgggagactagctat	L38622	66413	tcgttatgcatcaatcaatgctcat	AA063968	109017	tgtaagttcttcaacatctgtttct	M12660
23810	atctactgaaggcttcctgctgaag	L38622	66414	catcaatcaatgctcatcggaacag	AA063968	109018	taagttcttcaacatctgtttctat	M12660
23811	tgaaggcttcctgctgaagccggtg	L38622	66415	tcaatcaatgctcatcggaacaggg	AA063968	109019	agttcttcaacatctgtttctattc	M12660
23812	gtacgctgcttgccctgcatgctgt	L38622	66416	catgatgacctttggtctttattct	AA063968	109020	tcaacatctgtttctattcagaact	M12660
23813	tgcttgccctgcatgctgtgcaatg	L38622	66417	tgatgacctttggtctttattctac	AA063968	109021	aacatctgtttctattcagaacttt	M12660
23814	ccctgcatgctgtgcaatgagatat	L38622	66418	atgacctttggtctttattctacat	AA063968	109022	catctgtttctattcagaactttct	M12660
23815	ggcaatcgcaggacagcagtcccca	L38622	66419	gaccttggtctttattctacatgt	AA063968	109023	attaatatgatttcccaaagcatgt	M12660
23816	actaaccctgctgggagaagcattc	L38622	66420	attctacatgttggtggagtttgtg	AA063968	109024	atatgatttcccaaagcatgtaaca	M12660
23817	tgatgacatatcacgcatgctgggc	L38622	66421	gtggttggccaactgccttggagaa	AA063968	109025	atgatttcccaaagcatgtaacaac	M12660
23818	catatcacgcatgctgggctctggg	L38622	66422	ttggccaactgccttggagaaaaat	AA063968	109026	gatttcccaaagcatgtaacaacca	M12660
23819	caggaaccctttagagcacactggc	L38622	66423	tgcttgattttggcttggctcgaca	AA063968	109027	atcccacttgtgtataaaatcataa	M12660
23820	ggagcgctgcatggcagatgagaac	L38622	66424	tgattttggcttggctcgacaattt	AA063968	109028	gactaatatactttcaatttgcatt	M12660
23821	aatgttcctgcagcgcagaggtcag	L38622	66425	tggcttggctcgacaatttactaat	AA063968	109029	ctaatatactttcaatttgcattga	M12660
23822	cctgcagcgcagaggtcaggtgatc	L38622	66426	gcttggctcgacaatttactaattc	AA063968	109030	aatatactttcaatttgcattgaag	M12660
23823	catgaccatagagctcctggacaca	L38622	66427	tactaattcctgtggtgacgtcaga	AA063968	109031	ctttcaatttgcattgaagtattgt	M12660
23824	gctcctggacacagaagaggcacag	L38622	66428	ctaattcctgtggtgacgtcagacc	AA063968	109032	attgtttaactcatgtcttctcata	M12660
23825	ggctcgctatgtggagcagtatgtg	L38622	66429	ttcctgtggtgacgtcagaccacct	AA063968	109033	tgtttaactcatgtcttctcataaa	M12660
23826	tgcatccagctcatctactgaaggc	L38622	66430	tgtggcaggctttcgagggacagtt	AA063968	109034	caaactatttcaatcaagaaagtag	M12660
23827	cagctcatctactgaaggcttcctg	L38622	66431	tatgacactgcaggagcggagcaat	AA063980	109035	gaatattactgctacagtttcaact	M29008
23828	aggccgcaggcttcatcgacgagga	W71543	66432	tgacactgcaggagcggagcaattc	AA063980	109036	aatattactgctacagtttcaactt	M29008
23829	caggcttcatcgacgaggaccacct	W71543	66433	caagacaatcgtctggtattatcac	AA063980	109037	gaagtatcaactcatttcttctcat	M29008
23830	ccaccatgggcgaccgattcacgga	W71543	66434	acaatcgtctggtattatcacatgc	AA063980	109038	aagtatcaactcatttcttctcata	M29008
23831	tgggcgaccgattcacggatgagga	W71543	66435	ggtattatcacatgcaacacggtcg	AA063980	109039	gtatcaactcatttcttctcataaa	M29008
23832	gcgaccgattcacggatgaggaggt	W71543	66436	ggcatttcgaaacttaccagatctc	AA063980	109040	tatcaactcatttcttctcataaat	M29008
23833	agatgtaccgcgaggcacccattga	W71543	66437	catttcgaaacttaccagatctcga	AA063980	109041	tattgactcattcttcaaatttagt	M29008
23834	tgtaccgcgaggcacccattgataa	W71543	66438	tttcgaaacttaccagatctcgaga	AA063980	109042	ttgactcattcttcaaatttagtat	M29008
23835	aggcacccattgataagaggggcaa	W71543	66439	tcgaaacttaccagatctcgagaga	AA063980	109043	tgactcattcttcaaatttagtatt	M29008
23836	agttcactcgcatcctcaagcacgg	W71543	66440	gaaacttaccagatctcgagagaca	AA063980	109044	gactcattcttcaaatttagtatta	M29008
23837	gcatcctcaagcacggcgccaagga	W71543	66441	aacttaccagatctcgagagacaga	AA063980	109045	tattatttctgaatcatgtaacaac	M29008
23838	tcaagcacggcgccaaggacaagga	W71543	66442	cttaccagatctcgagagacagatt	AA063980	109046	aaactatctaatactttcatatcaa	M29008
23839	agcacggcgccaaggacaaggacga	W71543	66443	acactgcaggagcggagcaattcgc	AA063980	109047	tattactgctacagtttcaacttcc	M29008
23840	gcttcatcgacgaggaccacctgag	W71543	66444	cggagcaattcgcagccatgaagga	AA063980	109048	aactatctaatactttcatatcaat	M29008
23841	tcatcgacgaggaccacctgaggga	W71543	66445	gagcaattcgcagccatgaaggacc	AA063980	109049	ctgctacagtttcaacttccatttg	M29008
23842	tcgacgaggaccacctgagggagct	W71543	66446	gcaattcgcagccatgaaggacctg	AA063980	109050	tgctacagtttcaacttccatttga	M29008
23843	aggaccacctgagggagctgctcac	W71543	66447	aattcgcagccatgaaggacctgta	AA063980	109051	gtttcaacttccatttgaagtatca	M29008
23844	accacctgagggagctgctcaccac	W71543	66448	ttcgcagccatgaaggacctgtaca	AA063980	109052	tcaacttccatttgaagtatcaact	M29008
23845	agctgctcaccaccatgggcgaccg	W71543	66449	cgcagccatgaaggacctgtacatg	AA063980	109053	caacttccatttgaagtatcaactc	M29008
23846	tgctcaccaccatgggcgaccgatt	W71543	66450	tgaaggacctgtacatggagaacgg	AA063980	109054	aacttccatttgaagtatcaactca	M29008
23847	tcaccaccatgggcgaccgattcac	W71543	66451	gcacccagttcgctacgtggtgatc	X86374	109055	tgaagtatcaactcatttcttctca	M29008
23848	aggtggcacccactgacattgaaga	W71558	66452	ggtgatctcacacacagccggcagc	X86374	109056	ctgacagagtactcccgaacactga	Z31554
23849	gtggcacccactgacattgaagaag	W71558	66453	gtctattggcatcaccttcatgggg	X86374	109057	gagtactcccgaacactgagtggta	Z31554
23850	ctacatcctagggtcgacccaacag	W71558	66454	tggcatcaccttcatggggaacttc	X86374	109058	ctaagaaaccgccatgcccaaggag	Z31554
23851	tagggtcgacccaacagttacaatg	W71558	66455	gtgctgccctaaatcttctggaatc	X86374	109059	atctccaacattttggaggaaatgg	Z31554
23852	gggtcgacccaacagttacaatgat	W71558	66456	tgtctcggggcttcctgagatccaa	X86374	109060	cagcctctgttggtgtcagtcagtg	Z31554
23853	gtcgacccaacagttacaatgatgc	W71558	66457	ggggcttcctgagatccaactatga	X86374	109061	gtcagtgctttgaccttagcaactg	Z31554
23854	cgacccaacagttacaatgatgcag	W71558	66458	aaggacaccgggatgtgcaaagcac	X86374	109062	gctttgaccttagcaactgaaactg	Z31554
23855	acccaacagttacaatgatgcaggt	W71558	66459	atgtgcaaagcactctctctccagg	X86374	109063	accttagcaactgaaactgtgcgga	Z31554
23856	gggaaaacaccggcgtcacatacag	W71558	66460	ctccaggtgaccaactctatcaggt	X86374	109064	gcaactgaaactgtgcggagcattc	Z31554
23857	acaccggcgtcacatacagtgatgt	W71558	66461	aactctatcaggtcatccaaagctg	X86374	109065	gtaaatactcgataatctggataaa	Z31554
23858	accggcgtcacatacagtgatgtag	W71558	66462	tcatccaaagctgggaacactaccg	X86374	109066	cattgtcttccagttggcatttgtt	Z31554
23859	cggcgtcacatacagtgatgtaggt	W71558	66463	cggcagcttctgcaacagcccggac	X86374	109067	cttccagttggcatttgtttgaaat	Z31554
23860	ggcacccactgacattgaagaaggg	W71558	66464	tgacccccaataaagactcagcacc	X86374	109068	tcccgaacactgagtggtatggagt	Z31554
23861	cccactgacattgaagaagggatga	W71558	66465	cttctgcaacagcccggactcctgt	X86374	109069	atggagtcctactgtgttcgtgctt	Z31554
23862	taacagattcacataccactacatc	W71558	66466	ctcctgtgaacagcaggcccgcaat	X86374	109070	tcctactgtgttcgtgctttcgcgg	Z31554
23863	acagattcacataccactacatcct	W71558	66467	tcatgtctatgaaggccgaggctgg	X86374	109071	tgtgttcgtgctttcgcggatgcta	Z31554
23864	agattcacataccactacatcctag	W71558	66468	ctatgaaggccgaggctggaacatc	X86374	109072	cgtgctttcgcggatgctatggaag	Z31554
23865	attcacataccactacatcctaggg	W71558	66469	tgaccacacagggcccatctggaat	X86374	109073	ccatctacactagctgaaaatgctg	Z31554
23866	tcacataccactacatcctagggtc	W71558	66470	cacagggcccatctggaatcccatg	X86374	109074	aatgctggcctgaatcccatttcta	Z31554
23867	acataccactacatcctagggtcga	W71558	66471	ctggaatcccatgtctattggcatc	X86374	109075	aatcccatttctacagtaacagagc	Z31554
23868	ttatctatgctgaactggaaaatat	U17108	66472	ggaggcatccattgcaccgatgtaa	AA064004	109076	aacctctttgctgcattatccatag	J04115

TABLE 1

SEQ ID NO	sequence	DBAxnID
23869	tcaccattcaatgtgatcctggata	U17108
23870	acaggaaacctcagtctatgaaaat	U17108
23871	ttagactttgcaattagtggacaga	U17108
23872	agtctccacgcagcagctggcctga	U17108
23873	cacgcagcagctggcctgacacaca	U17108
23874	ctatgtcattcattagtgtctagcc	U17108
23875	cattcattagtgtctagccattgtg	U17108
23876	ttagtgtctagccattgtggttcaa	U17108
23877	ggttcaatttgtctacttggctgga	U17108
23878	atttgtctacttggctggactcact	U17108
23879	ctacttggctggactcactgaaata	U17108
23880	ataccatagttggttcaccaaacat	U17108
23881	accctgaggtacccagctgtcagat	U17108
23882	gcagaggcgcacaactcttgcattg	U17108
23883	aactcttgcattgcctctcaagccc	U17108
23884	tgcattgcctctcaagcccagaaga	U17108
23885	gcctctcaagcccagaagatgtgca	U17108
23886	atgtgcacagggccctgaaggtgta	U17108
23887	agttacacaggaaacctcagtctat	U17108
23888	gtaaatacatttcctcacttgattc	X13171
23889	tttcctcacttgattccatctgcaa	X13171
23890	tcctcatacaagcattgttgaaatg	X13171
23891	cttaacctattgtgcaaggacgcaa	X13171
23892	gacgcaaacagacctcatctttgta	X13171
23893	gcaaacagacctcatctttgtaatg	X13171
23894	aacagacctcatctttgtaatgatg	X13171
23895	aactggcaagttctggctaggtgag	X13171
23896	cttccgagctttcttggactgcttg	X13171
23897	agctttcttggactgcttgtccctc	X13171
23898	cgtgagcttttcaaacctttgatgg	X13171
23899	gacctggttgctttttctcttctgc	X13171
23900	ttgattccatctgcaacccttttgcc	X13171
23901	attccatctgcaacccttttgcccat	X13171
23902	gcaacccttttgcccattctattctg	X13171
23903	acccttttgcccattctattctgatc	X13171
23904	ctttgcccattctattctgatctta	X13171
23905	ttctattctgatcttattaaagtgg	X13171
23906	ttgaattcctcatacaagcattgtt	X13171
23907	aattcctcatacaagcattgttgaa	X13171
23908	catgctggtggctggaggcatcgta	D10028
23909	gatcttcctcattttcatcgagatc	D10028
23910	agccacatttagggctatcacctcc	D10028
23911	ggcctccagcttcaagagacgtagg	D10028
23912	ctccagcttcaagagacgtaggtcc	D10028
23913	gagacgtaggtcctccaaagacacg	D10028
23914	gtcctccaaagacacgagcaccggg	D10028
23915	gcaaaaccaaaaagacacagtgctg	D10028
23916	agacacagtgctgccgcgacgcgct	D10028
23917	gcagctgtgttcccgtcatagggag	D10028
23918	ttcccgtcatagggagagctgagac	D10028
23919	ccccgcagacagacgcacgggacag	D10028
23920	cttcctcattttcatcgagatcgcc	D10028
23921	cctcattttcatcgagatcgcctac	D10028
23922	catcgagatcgcctacaagcgacac	D10028
23923	cgagatcgcctacaagcgacacaag	D10028
23924	cgcctacaagcgacacaaggatgcc	D10028
23925	acacaaggatgcccgtaggaagcag	D10028
23926	gatgcagctggcttttgcagccgtg	D10028
23927	gctggcttttgcagccgtgaacgtg	D10028
23928	ttgctctacatccttctgcggaatg	U19520
23929	tacatccttctgcggaatggggtga	U19520
23930	gtcaccaactccgcgggctcaggga	U19520
23931	taccagctgtctcgctggtccccag	U19520
23932	tccccagtcatcaaggatgtgatgg	U19520
23933	tcccaggcagctgtcagcgctcgct	U19520
23934	cctaggctcatcgtgtacattgtgg	U19520
23935	ctcataggctcttctcacatcctta	U19520
23936	acccgcttcctcgatgacctcaaga	U19520
66473	aggcatccattgcaccgatgtaaca	AA064004
66474	tgagcatcctcccaaatgtatgcag	AA064004
66475	agcatcctcccaaatgtatgcagtt	AA064004
66476	tcctcccaaatgtatgcagttctgc	AA064004
66477	ctcccaaatgtatgcagttctgctg	AA064004
66478	tgtatgcagttctgctgagatctat	AA064004
66479	gatctatggcctgatgacatcacgg	AA064004
66480	tctatggcctgatgacatcacgggg	AA064004
66481	tatggcctgatgacatcacggggcc	AA064004
66482	tggcctgatgacatcacggggcctt	AA064004
66483	gatgacatcacggggccttggaagg	AA064004
66484	gcatccattgcaccgatgtaacaaa	AA064004
66485	atccattgcaccgatgtaacaaatg	AA064004
66486	attgcaccgatgtaacaaatgcatg	AA064004
66487	taaagatctctgtgacttttttgaa	AA064004
66488	aattccaatgagcatcctcccaaat	AA064004
66489	ttccaatgagcatcctcccaaatgt	AA064004
66490	ccaatgagcatcctcccaaatgtat	AA064004
66491	aatgagcatcctcccaaatgtatgc	AA064004
66492	cattctcgcagacgtctctagggcc	AA064024
66493	gagtgtttccagagggccgcttgga	AA064024
66494	atggcccgtttccatggtatggaga	AA064024
66495	gcccgtttccatggtatggagatgc	AA064024
66496	cgtttccatggtatggagatgccct	AA064024
66497	atggagatgcccttcactaaggagc	AA064024
66498	gagatgcccttcactaaggagcccc	AA064024
66499	atgcccttcactaaggagccccgat	AA064024
66500	ttcactaaggagccccgatggttgt	AA064024
66501	gtttgggaccatggagcggtacctg	AA064024
66502	tttgggaccatggagcggtacctga	AA064024
66503	gtacctgaagcagatccaggacttg	AA064024
66504	cagagggccgcttggaacagtacct	AA064024
66505	cagagccggccgttgaaaactcaag	AA064024
66506	actcaagagctccgggacccagtgt	AA064024
66507	caagagctccgggacccagtgttgt	AA064024
66508	gagctccgggacccagtgttgtcgg	AA064024
66509	gacccagtgttgtcgggagccattg	AA064024
66510	ccagtgttgtcgggagccattgcaa	AA064024
66511	ttgtcgggagccattgcaacgagga	AA064024
66512	gcctatcttgctgctcagaggcctg	W08293
66513	ctatcttgctgctcagaggcctgcc	W08293
66514	ttcactgacctgcaagaacagggtc	W08293
66515	cactgacctgcaagaacagggtcca	W08293
66516	gtccagaacatggctctttatgccg	W08293
66517	agaacatggctctttatgccgacgt	W08293
66518	tggctctttatgccgacgttagtgg	W08293
66519	gctctttatgccgacgttagtggaa	W08293
66520	tatgccgacgttagtggaaaacaat	W08293
66521	tttcctgtaacccgcggccaggatg	W08293
66522	tcctgtaacccgcggccaggatgtg	W08293
66523	ctgtaacccgcggccaggatgtggg	W08293
66524	atcttgctgctcagaggcctgcctg	W08293
66525	ctgctcagaggcctgcctggaacca	W08293
66526	gctcagaggcctgcctggaaccaca	W08293
66527	agactgtattcatcgtggagatttc	W08293
66528	actgtattcatcgtggagatttcac	W08293
66529	tattcatcgtggagatttcactgac	W08293
66530	ggagatttcactgacctgcaagaac	W08293
66531	agatttcactgacctgcaagaacag	W08293
66532	tacatagttcctccagcatatacac	X83974
66533	gttcctccagcatatacacacacag	X83974
66534	ctgttgttgccctgcagagaaatgt	X83974
66535	tgtccatgtgtgaccctagcagaa	X83974
66536	gctaatgaaaccgcccatatactgc	X83974
66537	gaaaccgcccatatactgctgtcta	X83974
66538	acgttggtgccactcagcaatcttc	X83974
66539	gtgccactcagcaatcttctgtctc	X83974
66540	ctcagcaatcttctgtctcccgaga	X83974
109077	tttgctgcattatccatagataatg	J04115
109078	gtccagactgtacaccagaagatgg	J04115
109079	actgtacaccagaagatggtgtggt	J04115
109080	gtcagcccgctggaaagcagacact	J04115
109081	attagctgttgattctcaaagcagg	J04115
109082	tgttgattctcaaagcagggaccca	J04115
109083	ttctcaaagcagggacccatggaag	J04115
109084	ctccttccaactttgaatctgacaa	J04115
109085	ttgaatctgacaactcctagaaaaa	J04115
109086	ctgacaactcctagaaaaagatgac	J04115
109087	agatgacctttgcttgtgcatattt	J04115
109088	cagctgagtgcccccaatatactag	J04115
109089	aagctgtgtcccctgtctgatttgt	J04115
109090	tgtcccctgtctgatttgtaggaat	J04115
109091	tagataccctgcatgctatcattgg	J04115
109092	ccctgcatgctatcattggctcata	J04115
109093	atgctatcattggctcatactctct	J04115
109094	ggcaacacacaagtccagactgtac	J04115
109095	acacaagtccagactgtacaccaga	J04115
109096	aagttcactgtcattagaccatttc	AA008095
109097	ttcactgtcattagaccatttccag	AA008095
109098	gaatcagccgaggcaagccagttgg	AA008095
109099	agttcacagatcaagcaggagccag	AA008095
109100	acgtggtagaccgtggctctccagg	AA008095
109101	accgtggctctccaggttcgtccag	AA008095
109102	gctctccaggttcgtccagtgtcca	AA008095
109103	ctccaggttcgtccagtgtccagcg	AA008095
109104	ccgtttctgccagctctgtaatata	AA008095
109105	tttctgccagctctgtaatatactt	AA008095
109106	ctgccagctctgtaatatacttgta	AA008095
109107	ccagctctgtaatatacttgtataa	AA008095
109108	gtcattagaccatttccaggacttg	AA008095
109109	attagaccatttccaggacttgtga	AA008095
109110	agaccatttccaggacttgtgatta	AA008095
109111	ccatttccaggacttgtgattaata	AA008095
109112	aaccagctggttgatcagaacgagt	AA008095
109113	aacgagtctgaaggccctgtgatac	AA008095
109114	gagtctgaaggccctgtgatacaag	AA008095
109115	caagaatcagccgaggcaagccagt	AA008095
109116	gacatcaactgatgtcatgaagcga	M85078
109117	acccctgttgccctgttcatcaatc	M85078
109118	agtccaaccaaatcctcctctatag	M85078
109119	gaagcctgccactgtcaatcaaggc	M85078
109120	tgccactgtcaatcaaggccgccca	M85078
109121	ctcctgcctcagttccagggatggc	M85078
109122	cctcagttccagggatggcagggac	M85078
109123	attttaccttaacagccagcacaca	M85078
109124	acacacacacagacacaaactgtca	M85078
109125	actgtcataaaatccaacgtgcctt	M85078
109126	tccaacgtgccttcatgatcaaagt	M85078
109127	gtgccttcatgatcaaagttcgata	M85078
109128	gttgccctgttcatcaatcaccaaa	M85078
109129	ctgttcatcaatcaccaaagtgggc	M85078
109130	atcaatcaccaaagtgggcgtgtcc	M85078
109131	caccaaagtgggcgtgtccagtctc	M85078
109132	acattgatgtcaccgtgatatcaca	M85078
109133	atgtcaccgtgatatcacagtccaa	M85078
109134	ccgtgatatcacagtccaaccaaat	M85078
109135	tatcacagtccaaccaaatcctcct	M85078
109136	tgacttctcccgtgaaaagatggac	M36084
109137	cttctcccgtgaaaagatggacctg	M36084
109138	catcagcagacagccgaaggctgag	M36084
109139	cagcagacagccgaaggctgaggaa	M36084
109140	cagacagccgaaggctgaggaatca	M36084
109141	atcaaaatgtcgtctttgagcctag	M36084
109142	atgtcgtctttgagcctagtaccaa	M36084
109143	tcgtctttgagcctagtaccaaaca	M36084
109144	ttgagcctagtaccaaacagtaata	M36084

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
23937	ttcctcgatgacctcaagacactgg	U19520	66541	cccgagaactctcagacatgatttc	X83974	109145	agcctagtaccaaacagtaataatg	M36084
23938	gatgacctcaagacactggatcaga	U19520	66542	aactctcagacatgatttctgtggc	X83974	109146	ctagtaccaaacagtaataatgcta	M36084
23939	ctcaagacactggatcagaagctgg	U19520	66543	tgatttctgtggcactattagaagg	X83974	109147	aatgctacattcaaattgtgaacag	M36084
23940	atccagcatgccaacgtgcagtcgt	U19520	66544	tgctggagcatcctccaaaaggaga	X83974	109148	cgcttttgagtttctctcctctgcg	M36084
23941	catgccaacgtgcagtcgtacagca	U19520	66545	agcatcctccaaaaggagaagtgca	X83974	109149	ttttgagtttctctcctctgcgtga	M36084
23942	aacgtgcagtcgtacagcagcctca	U19520	66546	gaagctctagctctgcaagccccaa	X83974	109150	ctctgcgtgactagacactcgtttt	M36084
23943	cagtcgtacagcagcctcatccgga	U19520	66547	atttccctgtgttccttctagctgt	X83974	109151	tgcgtgactagacactcgttttgac	M36084
23944	agcctcatccggaatctggagcagc	U19520	66548	ctgtgttccttctagctgttcccat	X83974	109152	actagacactcgttttgacatcagc	M36084
23945	atccggaatctggagcagctgggcg	U19520	66549	tccttctagctgttcccatactcag	X83974	109153	agacactcgttttgacatcagcaga	M36084
23946	aatctggagcagctgggcggcactg	U19520	66550	tagctgttcccatactcaggctgtc	X83974	109154	cactcgttttgacatcagcagacag	M36084
23947	gagcagctgggcggcactgtcacca	U19520	66551	ggctgtctgttgttgccctgcagag	X83974	109155	tgacatcagcagacagccgaaggct	M36084
23948	cgttctcacatcaatgggacagaga	W71363	66552	tccgcgatgtgactcacgaatcctt	AA063871	109156	tctgaaaccgcttattgaaacagaa	M84742
23949	ttctcacatcaatgggacagagaga	W71363	66553	cgatgtgactcacgaatccttgggt	AA063871	109157	aacagaattttcagctctggaggaa	M84742
23950	aacatcgctatcaccagcttcttag	W71363	66554	tacattacttacattgtgtacctct	AA063871	109158	tcacaatggacaccgtgcgagggac	M84742
23951	catcgctatcaccagcttcttagat	W71363	66555	cattacttacattgtgtacctctgt	AA063871	109159	tggacaccgtgcgagggacctgaac	M84742
23952	tatcaccagcttcttagatgtgaat	W71363	66556	ttacttacattgtgtacctctgtga	AA063871	109160	aacgtgtctgtgtcaggatctgttt	M84742
23953	atcaccagcttcttagatgtgaatc	W71363	66557	ttacattgtgtacctctgtgacatc	AA063871	109161	cgatgttcctttgatgtaatatcct	M84742
23954	accagcttcttagatgtgaatcggt	W71363	66558	acattgtgtacctctgtgacatcat	AA063871	109162	cttttcaggccacttgctctgttga	M84742
23955	gtgaatcggtccagcatctcgctgg	W71363	66559	attgtgtacctctgtgacatcatcg	AA063871	109163	aggccacttgctctgttgaggaatc	M84742
23956	gaatcggtccagcatctcgctggcc	W71363	66560	tgtgtacctctgtgacatcatcgtt	AA063871	109164	caaatgtacccagggtcactgtgta	M84742
23957	aatggcaatgcatgccatggtcctg	W71363	66561	tacctctgtgacatcatcgttaacg	AA063871	109165	tacccagggtcactgtgtaccttgt	M84742
23958	caatgcatgccatggtcctgtattc	W71363	66562	cctctgtgacatcatcgttaacgag	AA063871	109166	gggtcactgtgtaccttgtctttga	M84742
23959	aatgcatgccatggtcctgtattcc	W71363	66563	acatcatcgttaacgaggacaagac	AA063871	109167	ctgtgtaccttgtctttgagataca	M84742
23960	tctcacatcaatgggacagagagac	W71363	66564	gtgactcacgaatccttgggtgtac	AA063871	109168	gctcacggagtctctacaggactga	M84742
23961	atgcatgccatggtcctgtattcct	W71363	66565	tgggtgtacccgtcaatcctatcga	AA063871	109169	ggagtctctacaggactgaaaagct	M84742
23962	ctgtgaatgccttgcgagtcaatgt	W71363	66566	tgtacccgtcaatcctatcgactga	AA063871	109170	tggtcaacagccaaacccatgcacg	M84742
23963	ggtgcgcaatctgtcacaaacatcg	W71363	66567	tacccgtcaatcctatcgactgagg	AA063871	109171	atgcacggtgtgtgatccttttgag	M84742
23964	tgcgcaatctgtcacaaacatcgct	W71363	66568	cccgtcaatcctatcgactgaggct	AA063871	109172	tgatccttttgagtgtttgaccaga	M84742
23965	gcgcaatctgtcacaaacatcgcta	W71363	66569	cgtcaatcctatcgactgaggctca	AA063871	109173	aatttctctacagtgaaaatgtgtg	M84742
23966	gcaatctgtcacaaacatcgctatc	W71363	66570	atcgactgaggctcagtacattact	AA063871	109174	agtatcatcttctcctgggatttttt	M84742
23967	caatctgtcacaaacatcgctatca	W71363	66571	gctcagtacattacttacattgtgt	AA063871	109175	atcttctcctgggatttttcacaat	M84742
23968	atctgtcacaaacatcgctatcacc	W71363	66572	cgccagcgaacacacacactttaaa	Y07521	109176	ccgtcatctgcatcctgcttaacct	M91236
23969	ttcgtaactggagccaccttggtgt	U19521	66573	gatgtactactctttagccatggct	Y07521	109177	tctgcatcctgcttaaccttgtgga	M91236
23970	ggagccaccttggtgttcccattgt	U19521	66574	tgtcgtaaactctccacaccacagt	Y07521	109178	tctcatgcgacctcatctttctggg	M91236
23971	ttacgtactctgagatgcggtgtgc	U19521	66575	gagtgacacatgcccgctggcccag	Y07521	109179	ctcgagcccacgtgaagaaaaccat	M91236
23972	actctgagatgcggtgtgcttatga	U19521	66576	taggaaacctctcagaggcatgtcg	Y07521	109180	cagaatctctcatgaatgtagctga	M91236
23973	cttatgaagtttcccaggcacataa	U19521	66577	caatgattccagatccagtcagact	Y07521	109181	tcccagagctttgggatccagttgt	M91236
23974	aagtttcccaggcacataaatcctg	U19521	66578	tgattccagatccagtcagactgct	Y07521	109182	agctttgggatccagttgtgcctcc	M91236
23975	tttcccaggcacataaatcctgtga	U19521	66579	atccagtcagactgcttccttagtt	Y07521	109183	gactggccttcgctgagtcacccct	M91236
23976	cccaggcacataaatcctgtgaggt	U19521	66580	cagtcagactgcttccttagttcca	Y07521	109184	aacacaccgagggccacttcgcagg	M91236
23977	cacataaatcctgtgaggttattat	U19521	66581	tcagactgcttccttagttccacgg	Y07521	109185	ttcacgaaggcaccgatgagcaaat	M91236
23978	cacccagaaagctcctggatgatat	U19521	66582	tccacgggcgacccaggatcctgtg	Y07521	109186	agcaaatgccttcctgtgtggccca	M91236
23979	acgatcggctacagcaaatgttgct	U19521	66583	ggatcctgtgcccaactttgagttg	Y07521	109187	cctgtgtggcccagggtgagagcta	M91236
23980	atcggctacagcaaatgttgcttgt	U19521	66584	gtactactctttagccatggctaag	Y07521	109188	ttaaccttgtggagctgatctacct	M91236
23981	agacttttcagctttctcgatggac	U19521	66585	tttagccatggctaagcagaaacta	Y07521	109189	agctgatctacctagtgattaagcg	M91236
23982	cttttcagctttctcgatggacacc	U19521	66586	gaagcatattccgcggccaccacag	Y07521	109190	tctacctagtgattaagcggtgttc	M91236
23983	tttctcgatggacacctttttatcaa	U19521	66587	tccgcggccaccacagctgggatct	Y07521	109191	ttaagcggtgttctgagtgtgcgca	M91236
23984	ctcgatggacacctttttatcaaaga	U19521	66588	gccaccacagctgggatctcccaat	Y07521	109192	actgggccaactctcctagcaaaga	M91236
23985	ggacacctttttatcaaagatatcat	U19521	66589	acagctgggatctcccaattattgt	Y07521	109193	ccaactctcctagcaaagagaagga	M91236
23986	tgagtgctcgccagaaacccagaac	U19521	66590	gctgggatctcccaattattgtaaa	Y07521	109194	agaaggacttcctctcatgcgacct	M91236
23987	gtgctcgccagaaacccagaactaa	U19521	66591	taaatctgtcgtaaactctccacac	Y07521	109195	acttcctctcatgcgacctcatctt	M91236
23988	gaattacgtactctgagatgcggtg	U19521	66592	tgaagtgccttcgggcctctgaaga	AA064066	109196	cacctcctggaagaacaaggagtgg	AA106463
23989	ctggctgctccagtcgactcctggt	W71603	66593	gaagtgccttcgggcctctgaagaa	AA064066	109197	ctgccagccagtgccccattattga	AA106463
23990	ggctgctccagtcgactcctggtcg	W71603	66594	acctgaagcagcattacatcgacct	AA064066	109198	accctgcctgggaatctccagaagg	AA106463
23991	gtaggagtccttcgtaaggacatga	W71603	66595	cctgaagcagcattacatcgacctg	AA064066	109199	cctgcctgggaatctccagaaggag	AA106463
23992	gagtccttcgtaaggacatgatatg	W71603	66596	agcagcattacatcgacctgaaaga	AA064066	109200	tgcctgggaatctccagaaggagta	AA106463
23993	acatgattctgaacctgttgatatc	W71603	66597	gcagcattacatcgacctgaaagac	AA064066	109201	gtacccattgagggtatcatctttg	AA106463
23994	attctgaacctgttgatatcatgaa	W71603	66598	agcattacatcgacctgaaagacgg	AA064066	109202	ggtatcatctttggtggccgtagac	AA106463
23995	tgaagcaatgctcagcgcgagtata	W71603	66599	gcattacatcgacctgaaagacggt	AA064066	109203	tatcatctttggtggccgtagacct	AA106463
23996	aatgctcagcgcgagtatattgcta	W71603	66600	ttacatcgacctgaaagacggtcct	AA064066	109204	tcatctttggtggccgtagacctga	AA106463
23997	atgctcagcgcgagtatattgctat	W71603	66601	acatcgacctgaaagacggtcctgc	AA064066	109205	atctttggtggccgtagacctgaag	AA106463
23998	tgagttagagctgtctgcaggactt	W71603	66602	tttgcccatggtctgggaaggtctc	AA064066	109206	ttggtggccgtagacctgaaggtgt	AA106463
23999	agttagagctgtctgcaggacttgt	W71603	66603	ttgcccatggtctgggaaggtctca	AA064066	109207	aggccacagctgctgcagaacacaa	AA106463
24000	tagagctgtctgcaggacttgtgga	W71603	66604	gccttcgggcctctgaagaacacct	AA064066	109208	gccagccagtgccccattattgacc	AA106463
24001	gctgctccagtcgactcctggtcga	W71603	66605	ccttcgggcctctgaagaacacctg	AA064066	109209	cagccagtgccccattattgaccct	AA106463
24002	agagctgtctgcaggacttgtggat	W71603	66606	gggcctctgaagaacacctgaagca	AA064066	109210	gccagtgccccattattgaccctgc	AA106463
24003	gtcgacagcatcatggctactagtg	W71603	66607	ggcctctgaagaacacctgaagcag	AA064066	109211	cagtgccccattattgaccctgcct	AA106463
24004	actagtggcactgtgactgacttgt	W71603	66608	cctctgaagaacacctgaagcagca	AA064066	109212	gccccattattgaccctgcctggga	AA106463

TABLE 1

SEQ ID NO	sequence	DBAxnID
24005	ctgtgactgacttgtgtgtatttga	W71603
24006	gtatttgatgtcatggctgatgtag	W71603
24007	gatgtcatggctgatgtaggagtcc	W71603
24008	atgtcatggctgatgtaggagtcct	W71603
24009	atgtaggagtccttcgtaaggacat	W71603
24010	gagtctcctcgttgccactaagcag	AA153519
24011	tctcctcgttgccactaagcagcac	AA153519
24012	agattttatcaacacaaatttcctg	AA153519
24013	ttttatcaacacaaatttcctgagg	AA153519
24014	caacacaaatttcctgaggtggaag	AA153519
24015	cacaaatttcctgaggtggaagatg	AA153519
24016	aaatttcctgaggtggaagatgtag	AA153519
24017	ggggcctatgtcagcttgttggaat	AA153519
24018	gcctatgtcagcttgttggaatata	AA153519
24019	gaattatccagacgacgtatccgtt	AA153519
24020	ttatccagacgacgtatccgttcta	AA153519
24021	tccagacgacgtatccgttctataa	AA153519
24022	cctcgttgccactaagcagcacggc	AA153519
24023	ctacttcgggattcacacatccact	AA153519
24024	cttcgggattcacacatccacttca	AA153519
24025	gattcacacatccacttcagaatgc	AA153519
24026	tcacacatccacttcagaatgccgg	AA153519
24027	cacttcagaatgccggggctaagtt	AA153519
24028	ttcagaatgccggggctaagttgta	AA153519
24029	agaatgccggggctaagttgtagat	AA153519
24030	acgggctgcactcggcagagcagga	U20780
24031	atgatgaggcggctgacgatacaga	U20780
24032	gctccaacgacctttttccctgtgca	U20780
24033	ttttccctgtgcaccacctggacaa	U20780
24034	accacctggacaacaatgagttctg	U20780
24035	acaatgagttctgccctggggactt	U20780
24036	agcgagtccagagctgcccagaccc	U20780
24037	gctgcccagaccctgctgtctatgg	U20780
24038	cagaccctgctgtctatggtgtggt	U20780
24039	atcatgttggccgtacctgcatggt	U20780
24040	gtacctgcatggtgaagtggttcaa	U20780
24041	ggttcaagctgcgaccaagtgggga	U20780
24042	atacagatgacaccagctctgtgac	U20780
24043	atgacaccagctctgtgacctcctc	U20780
24044	cctcccagagtggcagtggcactgg	U20780
24045	ccttgtccatcaaaaacttgaagcg	U20780
24046	aggtcacccgtgacttcaagcctgg	U20780
24047	acttcaagcctggagacagggtggc	U20780
24048	tgaccacgatgacctcagctgatgt	U20780
24049	cgatgacctcagctgatgtgatgtg	U20780
24050	tggtggcgcccgagtcagtgacagt	W71692
24051	cgcccgagtcagtgacagtcgagga	W71692
24052	acggactcctgacattataatcccg	W71692
24053	gactcctgacattataatcccgggg	W71692
24054	gaccctggaggctggctatcctagc	W71692
24055	ctatcctagcaatctcacctgctct	W71692
24056	tcctagcaatctcacctgctctgtg	W71692
24057	tagcaatctcacctgctctgtgccc	W71692
24058	caatctcacctgctctgtgccctgg	W71692
24059	cacctgctctgtgccctgggcttgt	W71692
24060	ccctactttctcctggatgtcaact	W71692
24061	tactttctcctggatgtcaactgcc	W71692
24062	agggcctatgtgtccatgtgccctg	W71692
24063	aaccacagactcctccgtgctgacg	W71692
24064	gtgtccatgtgccctgcagtgtttt	W71692
24065	tccatgtgccctgcagtgttttcta	W71692
24066	ccattaagctcactttaggacctgt	W71692
24067	tcactttaggacctgtgaccggctc	W71692
24068	ctttaggacctgtgaccggctcctg	W71692
24069	aagggctctatcacggactcctgac	W71692
24070	atcacggactcctgacattataatc	W71692
24071	aggagccccagtcatgaagaggttt	W29238
24072	agccccagtcatgaagaggtttctc	W29238
66609	ctgaagaacacctgaagcagcatta	AA064066
66610	agaacacctgaagcagcattacatc	AA064066
66611	acacctgaagcagcattacatcgac	AA064066
66612	gattcactgtatcacgtgatgcttc	X74736
66613	ctgtatcacgtgatgcttcgatgct	X74736
66614	tgagtaggccacaggcactagatct	X74736
66615	tagatctgctaagtggccttgagca	X74736
66616	tgctaagtggccttgagcaaattac	X74736
66617	aaattacaagctgcctctgggccta	X74736
66618	caagctgcctctgggcctaggacaa	X74736
66619	agcatggaaaacctccactctttag	X74736
66620	atttgagcccctcgttccagcatga	X74736
66621	cgttccagcatgagccagtgacatt	X74736
66622	tttgtacctgtttcggaatacagag	X74736
66623	ggatccagcagtgatcacagagata	X74736
66624	ttcagagccctagtgctggaagtaa	X74736
66625	gtagtggcctcactgcttggggacc	X74736
66626	cactatgtgcagctgacagcagctt	X74736
66627	gtgcagctgacagcagcttatgtga	X74736
66628	cctcagcattgcaggagcacgtcaa	X74736
66629	cattgcaggagcacgtcaaagcccc	X74736
66630	cccacttgaccaaagccctgagtag	X74736
66631	aagccctgagtaggccacaggcact	X74736
66632	gaatcctgctagcagattagcaaag	AA064110
66633	tgaagaagctcacaaccctggagaa	AA064110
66634	tgcgaactcagagtacgctaaacac	AA064110
66635	gtacgctaaacaccagagcatctgt	AA064110
66636	cgctaaacaccagagcatctgtcca	AA064110
66637	taaacaccagagcatctgtccaggg	AA064110
66638	ccagagcatctgtccagggagaaaa	AA064110
66639	gagcatctgtccagggagaaaagtg	AA064110
66640	gagttttactcagcactcgcgcctc	AA064110
66641	ttttactcagcactcgcgcctcata	AA064110
66642	ctcgcgcctcatagagcacaagaga	AA064110
66643	agacaggccctacaaatgtgaagta	AA064110
66644	agctcacaaccctggagaagagtct	AA064110
66645	tcacaaccctggagaagagtcttct	AA064110
66646	tatttcccatgaagacagccagcct	AA064110
66647	ccatgaagacagccagcctctgcgt	AA064110
66648	agacagccagcctctgcgtaatgaa	AA064110
66649	ccagcctctgcgtaatgaaaatggt	AA064110
66650	tgtaaattctcctgcgaactcagag	AA064110
66651	aaattctcctgcgaactcagagtac	AA064110
66652	cagcacagctggctggtcagcatcc	AA064111
66653	cagactcttccagtctcctgtgagg	AA064111
66654	tgctgagatgcgctgcacatggtta	AA064111
66655	tgagatgcgctgcacatggttacac	AA064111
66656	gcgctgcacatggttacacttcaat	AA064111
66657	ctgcacatggttacacttcaatagg	AA064111
66658	cacatggttacacttcaataggttc	AA064111
66659	gttacacttcaataggttctgcaac	AA064111
66660	acacttcaataggttctgcaacagg	AA064111
66661	attgatctttggcacgacgttcatc	AA064111
66662	ctttggcacgacgttcatcaagggt	AA064111
66663	tggcacgacgttcatcaagggtgtt	AA064111
66664	actcttccagtctcctgtgaggtag	AA064111
66665	cttccagtctcctgtgaggtaggct	AA064111
66666	gtctcctgtgaggtaggcttaaaca	AA064111
66667	agcctcgatcgtggtgattcagata	AA064111
66668	ctcgatcgtggtgattcagatagcc	AA064111
66669	gattcagatagccgatggggtacag	AA064111
66670	ggcctcctctgctgagatgcgctgc	AA064111
66671	ctctgctgagatgcgctgcacatgg	AA064111
66672	cctgctcgatcaggcccgaatagat	AA064125
66673	ctcgatcaggcccgaatagatgaaa	AA064125
66674	ccaccaaggcacggatggcgcccgt	AA064125
66675	cagcgtgacgacggcgccttcggcc	AA064125
66676	cgtctggctgacctgccactgcttg	AA064125
109213	cccattattgaccctgcctgggaat	AA106463
109214	attgaccctgcctgggaatctccag	AA106463
109215	tgaccctgcctgggaatctccagaa	AA106463
109216	gaatgaaagacccccttcataaggct	U63133
109217	gacccccttcataaggcttagccagc	U63133
109218	aactgcagtaacgccatcttgcaag	U63133
109219	gcagtaacgccatcttgcaaggcat	U63133
109220	acgccatcttgcaaggcatgggaaa	U63133
109221	catcttgcaaggcatgggaaaatac	U63133
109222	taccagagctgatgttctcagaaaa	U63133
109223	tctgtggtcaagcactagggccccg	U63133
109224	caagaacagatggtccccagaaata	U63133
109225	agaacagatggtccccagaaatagc	U63133
109226	aacagatggtccccagaaatagcta	U63133
109227	cagatggtccccagaaatagctaaa	U63133
109228	ccccttcataaggcttagccagcta	U63133
109229	ttcataaggcttagccagctaactg	U63133
109230	taaggcttagccagctaactgcagt	U63133
109231	aggcttagccagctaactgcagtaa	U63133
109232	gcttagccagctaactgcagtaacg	U63133
109233	ttagccagctaactgcagtaacgcc	U63133
109234	agctaactgcagtaacgccatcttg	U63133
109235	ctaactgcagtaacgccatcttgca	U63133
109236	tcttcaaggctgctgtggactctgg	M91443
109237	aggctgctgtggactctggctttct	M91443
109238	aggtcgtctacctggtgggcaagag	M91443
109239	tctacctggtgggcaagagatgcat	M91443
109240	ggaggcaccaactgccagatacgtg	M91443
109241	gcccaccgtatgtgatctccaaagg	M91443
109242	cgtatgtgatctccaaaggaggtca	M91443
109243	tgatcctaacaaaggccgggatggc	M91443
109244	tgtctgtccactgaagccacccagg	M91443
109245	tccactgaagccacccaggaaaatg	M91443
109246	tgtggtcttctgcagcaggtcaggt	M91443
109247	ttcatccaagagctagcggaagatg	M91443
109248	ctgtggactctggctttctctacat	M91443
109249	gctttctctacatcttccattgcat	M91443
109250	tcttccattgcatttacaaggacta	M91443
109251	aggactatgacatgccccgagtggt	M91443
109252	atgacatgccccgagtggtagcttg	M91443
109253	tgccccgagtggtagcttgctctgt	M91443
109254	tcacctacttcatggtagtcacggc	M91443
109255	cagccatttgtattctactcaacct	M91443
109256	aatacaggtgccctgtgccctaatc	M31810
109257	tacaggtgccctgtgccctaatcct	M31810
109258	ctatacccagacaagagagtattat	M31810
109259	tcctctgcacactcaagagagccaa	M31810
109260	ctctgcacactcaagagagccaagg	M31810
109261	gcacactcaagagagccaaggcagc	M31810
109262	acactcaagagagccaaggcagctg	M31810
109263	gccaaggcagctgtggctttgccca	M31810
109264	caaggcagctgtggctttgcccata	M31810
109265	gcagctgtggctttgcccatacata	M31810
109266	agctgtggctttgcccatacataga	M31810
109267	ctgtggctttgcccatacatagagc	M31810
109268	caggtgccctgtgccctaatcctac	M31810
109269	ggctttgcccatacatagagcccca	M31810
109270	tgccctgtgccctaatcctacagat	M31810
109271	ccctgtgccctaatcctacagattg	M31810
109272	gtgccctaatcctacagattggggg	M31810
109273	tgtgaatatgccctttgtccagtgc	M31810
109274	gaccattgtcccctatacccagaca	M31810
109275	tcccctatacccagacaagagagta	M31810
109276	ccctatacccagacaagagagtatt	M31810
109277	gccactgagccatggccgagaccta	AA027387
109278	gagccatggccgagacctacgactt	AA027387
109279	aatcatgtcttctccaccagtttat	AA027387
109280	catgtcttctccaccagtttattga	AA027387

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24073	gacaaccagctggggccactgcttc	W29238	66677	tctggctgacctgccactgcttgtt	AA064125	109281	gtcttctccaccagtttattgagaa	AA027387
24074	aaccagctggggccactgcttcctg	W29238	66678	gctgacctgccactgcttgttggac	AA064125	109282	ttctccaccagtttattgagaataa	AA027387
24075	ccactgcttcctgaacccaaacaga	W29238	66679	tgacctgccactgcttgttggactc	AA064125	109283	tcaaacaggactccaaccacactat	AA027387
24076	ctgcttcctgaacccaaacagaagc	W29238	66680	acctgccactgcttgttggactcca	AA064125	109284	aacaggactccaaccacactatcgg	AA027387
24077	gaacccaaacagaagcctgcagctg	W29238	66681	ctgccactgcttgttggactccagc	AA064125	109285	ccaaccacactatcggcgtggagtt	AA027387
24078	cccaaacagaagcctgcagctgccg	W29238	66682	cactgcttgttggactccagcaccc	AA064125	109286	accacactatcggcgtggagtttgg	AA027387
24079	cagaagcctgcagctgccgaggaaa	W29238	66683	ccgcttgaggttctgcaccgggcgc	AA064125	109287	acactatcggcgtggagtttggatc	AA027387
24080	cctgcagctgccgaggaaaagcgtc	W29238	66684	cgatcaggcccgaatagatgaaagg	AA064125	109288	ctatcggcgtggagtttggatccag	AA027387
24081	aagcgtccagatgccatgacctggg	W29238	66685	aggcttgaaggccgatcctggttgg	AA064125	109289	ccatggccgagacctacgacttcct	AA027387
24082	cgtccagatgccatgacctgggtgg	W29238	66686	gcttgaaggccgatcctggttggcg	AA064125	109290	tggccgagacctacgacttcctctt	AA027387
24083	cctggccacctgtttggtggctgca	W29238	66687	aggccgatcctggttggcgccaggc	AA064125	109291	acttcctcttcaaattcctggtgat	AA027387
24084	cacctgtttggtggctgcactgctg	W29238	66688	cgatcctggttggcgccaggcctgg	AA064125	109292	tcctcttcaaattcctggtgattgg	AA027387
24085	agtccagcacaccaggtccctgtca	W29238	66689	tgaactggttgcgcgtgaagtcgaa	AA064125	109293	tcttcaaattcctggtgattggcag	AA027387
24086	ccagcacaccaggtccctgtcaaga	W29238	66690	aactggttgcgcgtgaagtcgaagc	AA064125	109294	tcaaattcctggtgattggcagtgc	AA027387
24087	caggtccctgtcaagaccaaaggca	W29238	66691	ctggttgcgcgtgaagtcgaagcca	AA064125	109295	aattcctggtgattggcagtgctgg	AA027387
24088	ggcaaacatgtgttccctgaacagg	W29238	66692	tgtgtacttcaaactgtctccacag	M60493	109296	gcaaatcatgtcttctccaccagtt	AA027387
24089	ttccctgaacaggaaacagagaagg	W29238	66693	gtacttcaaactgtctccacagagt	M60493	109297	actacacaaatgacttgggatcttt	L29468
24090	gatactagagccctggagcctcttg	W29238	66694	gtaaatcttgtacccatctgtgtgg	M60493	109298	tttgatttcagccttccagctgttg	L29468
24091	gcgctccagctacggacttcgtgct	W70403	66695	gtggttctcagacaacacatgctct	M60493	109299	gtacacatatgtgcctagagccaaa	L29468
24092	cgctccagctacggacttcgtgctt	W70403	66696	gttctcagacaacacatgctctctt	M60493	109300	tttatgaccttatgttgagactaat	L29468
24093	ccatcagcgcttcatccgacaggtg	W70403	66697	caacacatgctctcttttaatgcag	M60493	109301	tgagactaatttcacatcttatttt	L29468
24094	tcagcgcttcatccgacaggtgcgg	W70403	66698	cacatgctctcttttaatgcagctt	M60493	109302	gactaatttcacatcttattttaca	L29468
24095	cagcgcttcatccgacaggtgcggc	W70403	66699	atgctctcttttaatgcagctttga	M60493	109303	cacatcttattttacagtcatttac	L29468
24096	gcgcttcatccgacaggtgcggcgt	W70403	66700	tgggcacatcaacttctgaactgca	M60493	109304	atcttattttacagtcatttacagt	L29468
24097	cgcttcatccgacaggtgcggcgtg	W70403	66701	catcaacttctgaactgcaaactaa	M60493	109305	tgaaacaatgttccagctagcttta	L29468
24098	ttcatccgacaggtgcggcgtgttc	W70403	66702	caacttctgaactgcaaactaagct	M60493	109306	aatgttccagctagctttaaaagct	L29468
24099	acaggtgcggcgtgttctcgctcaa	W70403	66703	cttctgaactgcaaactaagcttta	M60493	109307	gttccagctagctttaaaagctata	L29468
24100	tgttctcgctcaactcgcgcttgac	W70403	66704	cttcaaactgtctccacagagttgt	M60493	109308	ttttactgctagcttgcaaaattat	L29468
24101	cgctcaactcgcgcttgacctgagg	W70403	66705	actgtctccacagagttgttgggga	M60493	109309	cttccagctgttgctgtgagttgtt	L29468
24102	tcaactcgcgcttgacctgagggcc	W70403	66706	tccacagagttgttggggagacact	M60493	109310	gttgctgtgagttgttccagacctt	L29468
24103	tccagctacggacttcgtgcttctg	W70403	66707	taatgtttcaaactcatatataaca	M60493	109311	agttgttccagacctttctgtggct	L29468
24104	caactcgcgcttgacctgagggcca	W70403	66708	ttcaaactcatatataacaatgctg	M60493	109312	tgttccagacctttctgtggctttt	L29468
24105	cagctacggacttcgtgcttctgca	W70403	66709	ttaacttttatagcactagctatt	M60493	109313	tccagacctttctgtggcttttgg	L29468
24106	cggacttcgtgcttctgcagctcct	W70403	66710	tcattcaacttcatgttgtgaagac	M60493	109314	ttctgtggctttttggtaaggctgc	L29468
24107	ggacttcgtgcttctgcagctcctc	W70403	66711	aacttcatgttgtgaagacgagctg	M60493	109315	tttttggtaaggctgcttagaagca	L29468
24108	cttcgtgcttctgcagctcctccgt	W70403	66712	aggcgcacaggacacgctgatggga	AA064128	109316	aaagtacacatatgtgcctagagcc	L29468
24109	tcgtgcttctgcagctcctccgttc	W70403	66713	gcgcacaggacacgctgatgggaca	AA064128	109317	gttctataaggcatgcccaaatatg	M65161
24110	tgcttctgcagctcctccgttctgg	W70403	66714	ctgctctcctgtcagtgcgtctggt	AA064128	109318	atgcccaaatatggtcccaggactg	M65161
24111	ccgacagcccgcgcaggttgcggtt	W70403	66715	tcagtgcgtctggtgctcgcctgct	AA064128	109319	aatccactggcgaccagaaatcaaa	M65161
24112	tcaggcaacattggcgaaggaccca	U03113	66716	cagacgctcgcagaggttgtgcaag	AA064128	109320	aatcaaacagtatcagccttgtgct	M65161
24113	cgaaggacccagaaaccgcagagct	U03113	66717	agacgctcgcagaggttgtgcaaga	AA064128	109321	acagtatcagccttgtgctatggaa	M65161
24114	gtacattacatgaaacaccttataa	U03113	66718	gacgctcgcagaggttgtgcaagat	AA064128	109322	acacctgacgtaggttacatcatca	M65161
24115	ttcattctatgttccttcaggtaat	U03113	66719	cgctcgcagaggttgtgcaagatca	AA064128	109323	tggtctcatggttttgagggctgaa	M65161
24116	cattctatgttccttcaggtaatca	U03113	66720	gctcgcagaggttgtgcaagatcac	AA064128	109324	agcacaggtcaaagctcatgcccta	M65161
24117	atgttccttcaggtaatcattacaa	U03113	66721	ttgtgcaagatcacctcaaagattg	AA064128	109325	agctcatgccctaagctaggaagaa	M65161
24118	tacaacattaaaaacctcttgaatg	U03113	66722	tgtgcaagatcacctcaaagattgc	AA064128	109326	cagtgtcctacagacccttctgaga	M65161
24119	tcgtactccttgttaaacatttcat	U03113	66723	gtgcaagatcacctcaaagattgca	AA064128	109327	cctacagacccttctgagaacctgt	M65161
24120	ttaaacatttcataatcttgtatgt	U03113	66724	aggacacgctgatgggacagctaaa	AA064128	109328	atcaccctgggagcaagcctttgag	M65161
24121	acatttcataatcttgtatgtatct	U03113	66725	acacgctgatgggacagctaaaaca	AA064128	109329	aggactgtctgtggaccttacaatc	M65161
24122	gatttttccttgagtgtaaatactg	U03113	66726	tccagggctgtccgcaggaattgtg	AA064128	109330	ggacactgcactcagacatggatcc	M65161
24123	tttttccttgagtgtaaatactgtg	U03113	66727	ccagggctgtccgcaggaattgtgg	AA064128	109331	ggaccttacaatccaggatgctgaa	M65161
24124	ggacccagaaaccgcagagcttgtc	U03113	66728	cagggctgtccgcaggaattgtggc	AA064128	109332	tgctgaagtcacactgcctggtttg	M65161
24125	aaaccgcagagcttgtccccatgga	U03113	66729	gctgtccgcaggaattgtggctggt	AA064128	109333	actgcctggtttggtgatgtcactc	M65161
24126	cgcagagcttgtccccatggatctt	U03113	66730	tgtccgcaggaattgtggctggtgc	AA064128	109334	cacaaaagacctgcctctcttgtaa	M65161
24127	cagagcttgtccccatggatcttat	U03113	66731	tccgcaggaattgtggctggtgcaa	AA064128	109335	agacctgcctctcttgtaaacttgg	M65161
24128	gcttgtccccatggatcttataaga	U03113	66732	attatgctgcagcctattgcactgg	AA087787	109336	gcctctcttgtaaacttgggcactt	M65161
24129	ttgtccccatggatcttataagacc	U03113	66733	gcagcctattgcactggcctgctgc	AA087787	109337	ttgtggaatccactggcgaccagaa	M65161
24130	atcttataagaccacgagatacata	U03113	66734	gcaggtcttgcccgaactacaactg	AA087787	109338	catttcttgctcgtggtgatgtgca	W11378
24131	tataagaccacgagatacataccgc	U03113	66735	gtcttgcccgaactacaactggcaa	AA087787	109339	atttcttgctcgtggtgatgtgcat	W11378
24132	ccactgctgcccttcagaatgggtt	W82026	66736	tgcccgaactacaactggcaataaa	AA087787	109340	cgaatgtgcgtcagtgcagagctac	W11378
24133	ggttctacgcagctccttacagtat	W82026	66737	gaggcttgtctatccctcatagtac	AA087787	109341	tgtgcgtcagtgcagagctactcgg	W11378
24134	ctcagttctgacaccagggatggac	W82026	66738	ggcttgtctatccctcatagtacca	AA087787	109342	tgaagttctcaatgtcgtgatggat	W11378
24135	agttctgacaccagggatggaccac	W82026	66739	cttgtctatccctcatagtaccaaa	AA087787	109343	gaagttctcaatgtcgtgatggatg	W11378
24136	ccagcctgcctccatgatgggacct	W82026	66740	tgtctatccctcatagtaccaaacg	AA087787	109344	aagttctcaatgtcgtgatggatgc	W11378
24137	ctccatgatgggacctcttacccag	W82026	66741	tatccctcatagtaccaaacgattc	AA087787	109345	agttctcaatgtcgtgatggatgcc	W11378
24138	tcttacccagcaactgggtcacctg	W82026	66742	cctcatagtaccaaacgattccctg	AA087787	109346	gttctcaatgtcgtgatggatgcca	W11378
24139	gcaactgggtcacctgtcactcaac	W82026	66743	tcatagtaccaaacgattccctggt	AA087787	109347	tctcaatgtcgtgatggatgccaaa	W11378
24140	gggtcacctgtcactcaacagtctg	W82026	66744	agcctattgcactggcctgctgctg	AA087787	109348	ttacacggaccagcgggagcccctg	W11378

TABLE 1

SEQ ID NO	sequence	DBAxnID
24141	cctgtcactcaacagtctgggcacg	W82026
24142	gtcactcaacagtctgggcacgttc	W82026
24143	actcaacagtctgggcacgttcatg	W82026
24144	tctacgcagctccttacagtatcgc	W82026
24145	cagtctgggcacgttcatgccggca	W82026
24146	cttacagtatcgcccacagcaggat	W82026
24147	acagtatcgcccacagcaggatgct	W82026
24148	tgcttgctcaatctgcgctaccccg	W82026
24149	aatctgcgctaccccgtatcttcca	W82026
24150	tcctgtgtcttcctatcagggctca	W82026
24151	tgtgtcttcctatcagggctcagtt	W82026
24152	ttcctatcagggctcagttctgaca	W82026
24153	cctcaacacatagaaattcagtgtg	U21951
24154	caggtacaccaggggccaacagcca	U21951
24155	gtacacactgtggcactcctgtgaa	U21951
24156	actgtggcactcctgtgaaggtcag	U21951
24157	gcactcctgtgaaggtcagaggaca	U21951
24158	ttttgttctctccatctgttagccg	U21951
24159	catctgttagccgttctgaggactg	U21951
24160	ttagccgttctgaggactgaatgca	U21951
24161	agcaaattatctcccctgagtggtc	U21951
24162	ttatctcccctgagtggtctcaaca	U21951
24163	agtggtctcaacagccctatgtcta	U21951
24164	ctcaacagccctatgtctatacgta	U21951
24165	aacaccttgccagcttacatagtat	U21951
24166	ctcagacaagctcagtcatttgtct	U21951
24167	caagctcagtcatttgtctgcctgg	U21951
24168	cagtcatttgtctgcctggcctcca	U21951
24169	gcctccaaaggctataatggcatac	U21951
24170	ggcatacagcagtcccagggcatta	U21951
24171	cagcagtcccagggcattaaaagaa	U21951
24172	ttgtatgtacacactgtggcactcc	U21951
24173	tccaatctgtgctttctggcagccg	AA142809
24174	aatctgtgctttctggcagccgggc	AA142809
24175	catcggtggctctggctctgaggcc	AA142809
24176	ccagctctccaactcttcgtgtgct	AA142809
24177	ctccaactcttcgtgtgctggcctg	AA142809
24178	caactcttcgtgtgctggcctgcac	AA142809
24179	cctgcacctgtcatctgctggggtt	AA142809
24180	gcacctgtcatctgctggggttacg	AA142809
24181	gtcatctgctggggttacggctgct	AA142809
24182	atctgctggggttacggctgctgtg	AA142809
24183	gctcctcaggggtcaggccagcaaa	AA142809
24184	cctcaggggtcaggccagcaaagaa	AA142809
24185	tgctttctggcagccgggcaccaca	AA142809
24186	tcctgccttccttcacattgcactg	AA142809
24187	cttccttcacattgcactgttcatc	AA142809
24188	ccttcacattgcactgttcatcggt	AA142809
24189	tcacattgcactgttcatcggtggc	AA142809
24190	cattgcactgttcatcggtggctct	AA142809
24191	actgttcatcggtggctctggctct	AA142809
24192	gttcatcggtggctctggctctgag	AA142809
24193	ctgctgcctccagcaaggagctcct	W70475
24194	ctgcctccagcaaggagctccttat	W70475
24195	tcaactgcaagaaggctctggagac	W70475
24196	actgcaagaaggctctggagacttg	W70475
24197	agacttgtggcggtgacctcaagca	W70475
24198	cttgtggcggtgacctcaagcaggc	W70475
24199	gtgacctcaagcaggcagaggactg	W70475
24200	acctcaagcaggcagaggactggct	W70475
24201	aggactggctgcacaaacaggccca	W70475
24202	actggctgcacaaacaggcccagaa	W70475
24203	tgcacaaacaggcccagaaggaagg	W70475
24204	gcaaagccgccaagctccacgggag	W70475
24205	cctccagcaaggagctccttatgaa	W70475
24206	ccagcaaggagctccttatgaaact	W70475
24207	aggagctccttatgaaactgcggcg	W70475
24208	agctccttatgaaactgcggcggaa	W70475

SEQ ID NO	sequence	DBAxnID
66745	acgattccctggttatgactctgaa	AA087787
66746	tgctggcccgcagcttctgaatagg	AA087787
66747	ggcccgcagcttctgaataggtttg	AA087787
66748	cccgcagcttctgaataggtttggc	AA087787
66749	aaagcattgacggtcagcctggtgc	AA087787
66750	agcattgacggtcagcctggtgcct	AA087787
66751	ctatctggatgcaggtcttgcccga	AA087787
66752	atgcaggtcttgcccgaactacaac	AA087787
66753	gattaacatctcgggtgtcagggac	AA064168
66754	gaagtttgtcaccggcagcaatttt	AA064168
66755	tgcttttcacacgcgttctgtgctg	AA064168
66756	ttttcacacgcgttctgtgctggcg	AA064168
66757	tcacacgcgttctgtgctggcgata	AA064168
66758	ttctgtgctggcgatacacgttttg	AA064168
66759	tgtgctggcgatacacgttttgcca	AA064168
66760	acacgttttgccatgttcatgctca	AA064168
66761	cgttttgccatgttcatgctcatat	AA064168
66762	tttgccatgttcatgctcatatgcc	AA064168
66763	gccatgttcatgctcatatgcctta	AA064168
66764	atgttcatgctcatatgccttaaga	AA064168
66765	gtttgtcaccggcagcaattttcac	AA064168
66766	tgtcaccggcagcaattttcactag	AA064168
66767	caccggcagcaattttcactagatg	AA064168
66768	caattttcactagatgtcctgtagc	AA064168
66769	tcactagatgtcctgtagctatgtc	AA064168
66770	gatgtcctgtagctatgtctttagc	AA064168
66771	gtcctgtagctatgtctttagctgt	AA064168
66772	tagctgtattgcttttcacacgcgt	AA064168
66773	gcgcctcggtgcaaaaggggttctg	AA064021
66774	accaacaagttgccgcagcaacggg	AA064021
66775	taaactggtgttttgcctgctgtcc	AA064021
66776	ttttgcctgctgtccgattgcctga	AA064021
66777	ttgcctgctgtccgattgcctgaca	AA064021
66778	cctgctgtccgattgcctgacatta	AA064021
66779	ctgctgtccgattgcctgacattag	AA064021
66780	gctgtccgattgcctgacattagcc	AA064021
66781	gtccgattgcctgacattagcccgg	AA064021
66782	tccgattgcctgacattagcccgga	AA064021
66783	gattgcctgacattagcccggaccg	AA064021
66784	tgcctgacattagcccggaccgggt	AA064021
66785	ccaacaagttgccgcagcaacggga	AA064021
66786	agttgccgcagcaacgggaaagccg	AA064021
66787	ttgccgcagcaacgggaaagccgga	AA064021
66788	cgcagcaacgggaaagccggaacag	AA064021
66789	aacagtacatcgaattcaaattgtt	AA064021
66790	tcaaattgttcccggaccagctcat	AA064021
66791	caaattgttcccggaccagctcatg	AA064021
66792	acagcatcggcaagattcgttgttc	AA064021
66793	ccgatgtgtccggactcttgctaca	AA064150
66794	gatgtgtccggactcttgctacacg	AA064150
66795	atacagctttcggactacagaggag	AA064150
66796	acagctttcggactacagaggagag	AA064150
66797	ctatttctaaacactggacttcaat	AA064150
66798	atatctgtagactcatcagttcacc	AA064150
66799	atctgtagactcatcagttcaccac	AA064150
66800	ctgtagactcatcagttcaccacca	AA064150
66801	gtagactcatcagttcaccaccagg	AA064150
66802	agactcatcagttcaccaccaggca	AA064150
66803	actcatcagttcaccaccaggcatg	AA064150
66804	atcagttcaccaccaggcatggata	AA064150
66805	tgtgtccggactcttgctacacgca	AA064150
66806	cttgctacacgcagtcaatgagcat	AA064150
66807	tgctacacgcagtcaatgagcatcc	AA064150
66808	gcagtcaatgagcatccggaaacgc	AA064150
66809	agtcaatgagcatccggaaacgcgc	AA064150
66810	tcaatgagcatccggaaacgcgcaa	AA064150
66811	aatgagcatccggaaacgcgcaaaa	AA064150
66812	agcatccggaaacgcgcaaaatcgg	AA064150

SEQ ID NO	sequence	DBAxnID
109349	tacacggaccagcgggagcccctgg	W11378
109350	tttcttgctcgtggtgatgtgcatg	W11378
109351	tgatgtgcatggccgaatgtgcgtc	W11378
109352	gatgtgcatggccgaatgtgcgtca	W11378
109353	atgtgcatggccgaatgtgcgtcag	W11378
109354	catggccgaatgtgcgtcagtgcag	W11378
109355	atggccgaatgtgcgtcagtgcaga	W11378
109356	tggccgaatgtgcgtcagtgcagag	W11378
109357	ccgaatgtgcgtcagtgcagagcta	W11378
109358	ttatctggcttagtttgtggagact	W11383
109359	tagtttgtggagactccggaatgcg	W11383
109360	taagtcttggggtctggaatgtgac	W11383
109361	aagtcttggggtctggaatgtgaca	W11383
109362	gacagactccagttgggactggatt	W11383
109363	acagactccagttgggactggattc	W11383
109364	agactccagttgggactggattcag	W11383
109365	gactccagttgggactggattcagg	W11383
109366	ctggattcaggggccgacttctcac	W11383
109367	tggattcaggggccgacttctcact	W11383
109368	attcaggggccgacttctcacttgc	W11383
109369	aaccccaactactgagagatgaatc	W11383
109370	tttgtggagactccggaatgcggag	W11383
109371	accccaactactgagagatgaatca	W11383
109372	atcaaagcagtggccaacgcgacgt	W11383
109373	caaagcagtggccaacgcgacgtta	W11383
109374	ggccaacgcgacgttaagtttgcag	W11383
109375	agtttgcaggactgcgttgttaagt	W11383
109376	tttgcaggactgcgttgttaagtct	W11383
109377	ttgcaggactgcgttgttaagtctt	W11383
109378	gttaagtcttggggtctggaatgtg	W11383
109379	atcctaaccagggatcagctgaaga	L02918
109380	gtatttcagcaaacccagccagtgt	L02918
109381	tcactcagatgacctttttccgtct	L02918
109382	aagcctcgcagaaccttacttacat	L02918
109383	cgcagaaccttacttacatctgtag	L02918
109384	gattcagatacacagttcttcaaga	L02918
109385	cagttcttcaagacacctgctctaa	L02918
109386	ttcaagacacctgctctaagcgaaa	L02918
109387	acacctgctctaagcgaaatggaaa	L02918
109388	tcatagatgttggtcctgtggatat	L02918
109389	atgttggtcctgtggatattggcaa	L02918
109390	aatttggccttgatattgggccagt	L02918
109391	cagcaaacccagccagtgttccacg	L02918
109392	tattgggccagtttgtttcatgtaa	L02918
109393	gggccagcaaatcccctgacaataa	L02918
109394	cccctgacaataagcctgtgtggta	L02918
109395	acaataagcctgtgtggtacggtct	L02918
109396	agcctgtgtggtacggtcttgacat	L02918
109397	attaccagtctcctaacacagctat	L02918
109398	agtctcctaacacagctatcactca	L02918
109399	ctaacacagctatcactcagatgac	L02918
109400	tatatcacctttcttgaggacctca	W41861
109401	tatcacctttcttgaggacctcaaa	W41861
109402	aagctttggccagtgaacaaaagct	W41861
109403	agtgaacaaaagctcccttggcatc	W41861
109404	gtgaacaaaagctcccttggcatca	W41861
109405	gaacaaaagctcccttggcatcaga	W41861
109406	aagctcccttggcatcagatttatg	W41861
109407	agctcccttggcatcagatttatgc	W41861
109408	tcccttggcatcagatttatgcttc	W41861
109409	aaatggctgtcatcctaatatatgg	W41861
109410	atggctgtcatcctaatatatgggg	W41861
109411	tggctgtcatcctaatatatggggg	W41861
109412	agctttgtcaagaaccagtagaact	W41861
109413	tagaactcagagactgcgggcctta	W41861
109414	gaactcagagactgcgggccttaat	W41861
109415	aactcagagactgcgggccttaatt	W41861
109416	aatggcaagctttggccagtgaaca	W41861

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24209	ccggctactcctttgtcaactgcaa	W70475	66813	ttcggatccatgcttgcgcggaggc	AA116592	109417	tggcaagctttggccagtgaacaaa	W41861
24210	gctactcctttgtcaactgcaagaa	W70475	66814	cacgtggcatacgcgaactgccaaa	AA116592	109418	ggcaagctttggccagtgaacaaaa	W41861
24211	actcctttgtcaactgcaagaaggc	W70475	66815	gccaaagccttagacaagtacgtgt	AA116592	109419	caagctttggccagtgaacaaaagc	W41861
24212	cctttgtcaactgcaagaaggctct	W70475	66816	agacaagtacgtgtctcagtctcaa	AA116592	109420	ggatcttggagctttgcctaaaaag	L08407
24213	tacagagacacacagacttccatta	U17343	66817	caagtacgtgtctcagtctcaatac	AA116592	109421	tcactctgcattctccagtcacaga	L08407
24214	cagacttccattaccgatagttctg	U17343	66818	aagtacgtgtctcagtctcaatact	AA116592	109422	ggcttacaaagcttgactggtcgta	L08407
24215	atccagcagcagcttgagaaggagc	U17343	66819	tacgtgtctcagtctcaatactgtg	AA116592	109423	ggtcgtagctatggcctgtgtccac	L08407
24216	aaggagctcaacaccttacgagtca	U17343	66820	cgtgtctcagtctcaatactgtggg	AA116592	109424	tgtccacaggtacaggccagaagta	L08407
24217	agcaccgcacctgctcagttgggga	U17343	66821	gtgtctcagtctcaatactgtgggg	AA116592	109425	acaactatgacaccacactagaccc	L08407
24218	tcccagttgccactcaaagtggagt	U17343	66822	aagactgcagcagccaagggaagag	AA116592	109426	atgacaccacactagacccagacag	L08407
24219	ttgccactcaaagtggagttcctgg	U17343	66823	agactgcagcagccaagggaagaga	AA116592	109427	tagacccagacaggacaagaggggc	L08407
24220	ttcctggagtgtagtgccaagggtg	U17343	66824	actgcagcagccaagggaagagagc	AA116592	109428	agaggacacagaactcctgatgctg	L08407
24221	actggctctgctgacatccaggact	U17343	66825	gtggcatacgcgaactgccaaagcc	AA116592	109429	cacaccatcctgcacttaggaaatg	L08407
24222	tctgctgacatccaggacttggaga	U17343	66826	tggcatacgcgaactgccaaagcct	AA116592	109430	atcctgcacttaggaaatggcataa	L08407
24223	gacatccaggacttggagaagtggc	U17343	66827	catacgcgaactgccaaagccttag	AA116592	109431	gcactttccactgtctaaaaacatt	L08407
24224	ctggccaagattgcctgaggagcat	U17343	66828	tacgcgaactgccaaagccttagac	AA116592	109432	tgcattctccagtcacagaggtgac	L08407
24225	tccattaccgatagttctgccatat	U17343	66829	acgcgaactgccaaagccttagaca	AA116592	109433	ctccagtcacagaggtgactgttgc	L08407
24226	accgatagttctgccatatacaaag	U17343	66830	gcgaactgccaaagccttagacaag	AA116592	109434	caactgaaaacactcaaagttcact	L08407
24227	agttctgccatatacaaagtcaaca	U17343	66831	cgaactgccaaagccttagacaagt	AA116592	109435	ttcctcagaggaggtgacatggtta	L08407
24228	aggtttcagctcttagatcgcttta	U17343	66832	tgccaaagccttagacaagtacgtg	AA116592	109436	accttcagttaccatggtgcagatg	L08407
24229	cagctcttagatcgctttaagtctt	U17343	66833	gaggactccaaggacacaattgaaa	AA064246	109437	agttaccatggtgcagatgccaatc	L08407
24230	ctgtaccaggtcctcatcgacagca	U17343	66834	agagcatatgacctgttctgtgggc	AA064246	109438	gcagatgccaatcaccttcccactg	L08407
24231	ctcatcgacagcatggctctgaaga	U17343	66835	tataggcttgctggaggaaagtgat	AA064246	109439	cccactggcttacaaagcttgactg	L08407
24232	atagcctgcaataagcaagatatcg	U17343	66836	ttacattgctgtgaacttatgcatt	AA064246	109440	cgtgctgacgaacggcgagccgagc	W11472
24233	actgcccgggcagtgggcagattag	W70424	66837	catttgaagccagtgtgccacactc	AA064246	109441	tgctgacgaacggcgagccgagcag	W11472
24234	aggccgtttgtgacgcggcctgcat	W70424	66838	ttgaagccagtgtgccacactcatc	AA064246	109442	cctgctgctgggctcaggcgagact	W11472
24235	cggcctgcattcacagcagatggcc	W70424	66839	aagccagtgtgccacactcatctgc	AA064246	109443	ctgctgctgggctcaggcgagactg	W11472
24236	ctgcattcacagcagatggccgagt	W70424	66840	ccagtgtgccacactcatctgccat	AA064246	109444	ctgctgggctcaggcgagactgcaa	W11472
24237	gcattcacagcagatggccgagtca	W70424	66841	tgccacactcatctgccatgccaga	AA064246	109445	ggctcaggcgagactgcaagtccag	W11472
24238	cattcacagcagatggccgagtcaa	W70424	66842	cacactcatctgccatgccagagct	AA064246	109446	gagactgcaagtccagcttcctgaa	W11472
24239	attcacagcagatggccgagtcaac	W70424	66843	actcatctgccatgccagagcttta	AA064246	109447	gactgcaagtccagcttcctgaagc	W11472
24240	ttcacagcagatggccgagtcaacg	W70424	66844	catctgccatgccagagctttagaa	AA064246	109448	acttcgaccagcgcgcgcgatggta	W11472
24241	tcacagcagatggccgagtcaacgt	W70424	66845	gcatatgacctgttctgtgggctgg	AA064246	109449	ttcgaccagcgcgcgcgatggtagt	W11472
24242	cacagcagatggccgagtcaacgtg	W70424	66846	ctgccatgccagagctttagaagtg	AA064246	109450	gaccagcgcgcgcgatggtagttcc	W11472
24243	acagcagatggccgagtcaacgtgg	W70424	66847	tatgacctgttctgtgggctggacc	AA064246	109451	accagcgcgcgcgatggtagttccg	W11472
24244	gtttgtgacgcggcctgcattcaca	W70424	66848	ttctgtgggctggaccaggataaag	AA064246	109452	tgacgaacggcgagccgagcagcag	W11472
24245	tttgtgacgcggcctgcattcacag	W70424	66849	atgtccacttgtaaatttcacgcat	AA064246	109453	agccgagcagcagccaacgtccacg	W11472
24246	ttgtgacgcggcctgcattcacagc	W70424	66850	acttgtaaatttcacgcattcggat	AA064246	109454	gccgagcagcagccaacgtccacgg	W11472
24247	tgtgacgcggcctgcattcacagca	W70424	66851	tgtaaatttcacgcattcggataaa	AA064246	109455	cgagcagcagccaacgtccacggag	W11472
24248	tgacgcggcctgcattcacagcaga	W70424	66852	tttcacgcattcggataaaaggtgt	AA064246	109456	cagcagccaacgtccacggagatcg	W11472
24249	gacgcggcctgcattcacagcagat	W70424	66853	tgtgattataggcttgctggaggaa	AA064246	109457	gccaacgtccacggagatcgacata	W11472
24250	acgcggcctgcattcacagcagatg	W70424	66854	gcggccttcctactcgtgtggtctt	W09407	109458	ccaacgtccacggagatcgacatat	W11472
24251	cgcggcctgcattcacagcagatgg	W70424	66855	ggccttcctactcgtgtggtctttg	W09407	109459	aacgtccacggagatcgacatatgc	W11472
24252	ggacttcaccagacaggggtatgca	W70427	66856	tggtgcagccatcaaccttatcttc	W09407	109460	gagattctgccatagagctttgagc	X61576
24253	acttcaccagacaggggtatgcaga	W70427	66857	ggtgcagccatcaaccttatcttca	W09407	109461	attctgccatagagctttgagcagg	X61576
24254	gtgcagcgcaatggtgctcgtatcg	W70427	66858	gtgcagccatcaaccttatcttcag	W09407	109462	ttatgctactatacacgattttcat	X61576
24255	gcagcgcaatggtgctcgtatcgcc	W70427	66859	tgcagccatcaaccttatcttcaga	W09407	109463	tatacacgattttcattcttggtag	X61576
24256	atggtgctcgtatcgcctcagagtg	W70427	66860	gcagccatcaaccttatcttcagat	W09407	109464	cgattttcattcttggtaggtatca	X61576
24257	ggtgctcgtatcgcctcagagtgag	W70427	66861	cagccatcaaccttatcttcagata	W09407	109465	aagattgcccatgtatttgcatctc	X61576
24258	tgctcgtatcgcctcagagtgagcc	W70427	66862	gccttcctactcgtgtggtctttgt	W09407	109466	attgcccatgtatttgcatctcagt	X61576
24259	ctcgtatcgcctcagagtgagccca	W70427	66863	ccttcctactcgtgtggtctttgtg	W09407	109467	gcccatgtatttgcatctcagtggg	X61576
24260	tatcgcctcagagtgagcccattgc	W70427	66864	cttcctactcgtgtggtctttgtga	W09407	109468	gtatttgcatctcagtgggttcttt	X61576
24261	gcctcagagtgagcccattgcccga	W70427	66865	ttcctactcgtgtggtctttgtgac	W09407	109469	tttcaaatctgtcccacctttgtgt	X61576
24262	gagtgagcccattgcccgatcaagc	W70427	66866	tcctactcgtgtggtctttgtgact	W09407	109470	cccacctttgtgtcttccatatatt	X61576
24263	gcccattgcccgatcaagcctgcaa	W70427	66867	ctactcgtgtggtctttgtgacttc	W09407	109471	gttagcatcagggaggcaagccatg	X61576
24264	ttcaccagacaggggtatgcagagc	W70427	66868	tactcgtgtggtctttgtgacttcc	W09407	109472	caggaatccaagtcctcaacatggc	X61576
24265	ccattgcccgatcaagcctgcaagc	W70427	66869	tgacttccaccatggcgtacccggc	W09407	109473	gaatccaagtcctcaacatggcatt	X61576
24266	gcagctcatgctacgcatggggtga	W70427	66870	gacacacacactggtttctggcctc	X63039	109474	tcaacatggcatttcctttatgaaa	X61576
24267	ggtgagatccaacaccggtagtgca	W70427	66871	cacactggtttctggcctccttctc	X63039	109475	tggcatttcctttatgaaaagacag	X61576
24268	tgagatccaacaccggtagtgcagc	W70427	66872	tttccttaaaatctgcaaaggcaga	X63039	109476	gtttgcaggcgagcttccctggcct	X61576
24269	agatccaacaccggtagtgcagcgc	W70427	66873	aagctctcattctcctgcaaattcc	X63039	109477	tccctggcctgaccctctaggtgtg	X61576
24270	aacaccggtagtgcagcgcaatggt	W70427	66874	tcctgcaaattccatggtaggcaca	X63039	109478	ccctctaggtgtggatggaccttat	X61576
24271	caccggtagtgcagcgcaatggtgc	W70427	66875	cagtcccttgaataaacgtcacaag	X63039	109479	accttatgctactatacacgatttt	X61576
24272	ccggtagtgcagcgcaatggtgctc	W70427	66876	taaacgtcacaaggctgcttattat	X63039	109480	ttaccaatctgaagtgggagccaag	AA020356
24273	taacacactgaaactgtatctactt	U24703	66877	tcacaaggctgcttattatcaaaaa	X63039	109481	ggtagacaccattatacacaagaaa	AA020356
24274	actgaaactgtatctacttgctgtg	U24703	66878	catgtaaccgcttaaatgtcacagt	X63039	109482	tttggcactggcgtggttgatgcca	AA020356
24275	tggccgttttactgacagtaactgc	U24703	66879	tcacagttaacacttttcattcttt	X63039	109483	tggcactggcgtggttgatgccaac	AA020356
24276	ttttactgacagtaactgccatttc	U24703	66880	tattcatataactcattattgtgcc	X63039	109484	aacgaacacggcaatacagcgcata	AA020356

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24277	atagtcataccttctgatgaggtgg	U24703	66881	tataactcattattgtgccttatta	X63039	109485	cgaacacggcaatacagcgcataac	AA020356
24278	ataccttctgatgaggtggagccaa	U24703	66882	ctctgtcctgcaaatgaatacagcg	X63039	109486	cggcaatacagcgcataacgctggc	AA020356
24279	gagccaacaccagcaaagtatgatg	U24703	66883	aatgaatacagcgtgctggtgccta	X63039	109487	aatacagcgcataacgctggcccat	AA020356
24280	gtagcctctgactagtcctgaaaca	U24703	66884	tacagcgtgctggtgcctacttttc	X63039	109488	tacagcgcataacgctggcccattc	AA020356
24281	tctgactagtcctgaaacagaaggc	U24703	66885	cctcccggtgcttgaacgcagcctg	X63039	109489	gcgcataacgctggcccattctctc	AA020356
24282	ctgcactctaggctgaaccatgcta	U24703	66886	tgaacgcagcctgacttttgcacct	X63039	109490	aacgctggcccattctctcttgaac	AA020356
24283	tctaggctgaaccatgctaaaagcc	U24703	66887	cagcctgacttttgcacctttgaaa	X63039	109491	cgctggcccattctctcttgaactt	AA020356
24284	catgctaaaagcccatgcttaaata	U24703	66888	tgcacctttgaaatacttgtggtag	X63039	109492	tagacaccattatacacaagaaact	AA020356
24285	atattttgctgctggactttgacct	U24703	66889	aagtcttacattccttctcatttgt	X63039	109493	ggcccattctctcttgaacttgtgt	AA020356
24286	tggactttgacctacttgtattatg	U24703	66890	ttgcctacactgggaacatccacag	X52991	109494	caccattatacacaagaaactgagt	AA020356
24287	tgcagatacctattcaagatgataa	U24703	66891	acactgggaacatccacagaagcct	X52991	109495	ccattatacacaagaaactgagtga	AA020356
24288	ctgctgtctccttaatatgctcctt	U24703	66892	ctcacatcaaacattgttcctacta	X52991	109496	tgagtgatcagcgtactaggaaggc	AA020356
24289	tctccttaatatgctccttaacacg	U24703	66893	cctactatactcatgaagaggaggt	X52991	109497	tgatcagcgtactaggaaggcgatg	AA020356
24290	gctccttaacacgtatgttgatgta	U24703	66894	ttcacaaagtcaaaacacaaagtgt	X52991	109498	taatcccaagcccaaggccgcttcg	AA020356
24291	taatgtgttctgtggccgttttact	U24703	66895	ggtatatccaaatttctctggactc	X52991	109499	gatcaaatgtccaccacaaacccaa	AA020356
24292	gttctgtggccgttttactgacagt	U24703	66896	gcaactttaattgcttctatagcgg	X52991	109500	ctaatttggcactggcgtggttgat	AA020356
24293	atgttaaattcccagaagaagatga	W70486	66897	ttaattgcttctatagcggttctac	X52991	109501	tccgtctctccagttctatagttca	X06086
24294	tgttaaattcccagaagaagatgag	W70486	66898	gcttctatagcggttctactcaagc	X52991	109502	tctccagttctatagttcaggcatc	X06086
24295	cattcagtagccacactgcttgggc	W70486	66899	atagcggttctactcaagcagccaa	X52991	109503	ggttctgttggtgggctatggctat	X06086
24296	attcagtagccacactgcttgggca	W70486	66900	ctcaagcagccaacgttagcagctt	X52991	109504	caaccactgtggacttgccaccgcg	X06086
24297	ttcagtagccacactgcttgggcag	W70486	66901	agagctgtgtaccccctgttccttgt	X52991	109505	caccgcggccagctatcctgtcgtg	X06086
24298	tcagtagccacactgcttgggcagg	W70486	66902	tccacagaagccttaatgaggctac	X52991	109506	ggccagctatcctgtcgtgaattga	X06086
24299	agccacactgcttgggcaggctcca	W70486	66903	gcagcttactcttgctgagccgtag	X52991	109507	cagctatcctgtcgtgaattgatgg	X06086
24300	tgcttgggcaggctccagtagagac	W70486	66904	attactacttaacaagagctcttca	X52991	109508	ctatcctgtcgtgaattgatgggta	X06086
24301	cttgggcaggctccagtagagacta	W70486	66905	agcttttgagtgaccagggttgtcg	X52991	109509	tggacactatgtccaaaggaattca	X06086
24302	ttgggcaggctccagtagagactac	W70486	66906	tgagtgaccagggttgtcgttcagt	X52991	109510	tgaattctgttcccatttttacatg	X06086
24303	tgggcaggctccagtagagactaca	W70486	66907	ttgggcatttcgcatcctcttcttt	X52991	109511	gtgcttaattctgagtctggaatat	X06086
24304	ttaaattcccagaagaagatgagat	W70486	66908	tagctacttctagtccatttttcaa	X52991	109512	cttaattctgagtctggaatatttg	X06086
24305	taaattcccagaagaagatgagata	W70486	66909	cttctagtccatttttcaatggaca	X52991	109513	tagttcaggcatctactatgaaccc	X06086
24306	ggcatttcattcagtagccacactg	W70486	66910	ttatcatcaaaacctgcttgggggc	X52991	109514	ttcaggcatctactatgaacccaac	X06086
24307	gcatttcattcagtagccacactgc	W70486	66911	tcgccagcggcagtttccactgtag	AA064278	109515	aggcatctactatgaacccaactgt	X06086
24308	catttcattcagtagccacactgct	W70486	66912	cgccagcggcagtttccactgtagt	AA064278	109516	ctactatgaacccaactgtagcagc	X06086
24309	atttcattcagtagccacactgctt	W70486	66913	tcagcatttcttgcctgccacacat	AA064278	109517	ctatgaacccaactgtagcagcaag	X06086
24310	tttcattcagtagccacactgcttg	W70486	66914	cagcatttcttgcctgccacacatc	AA064278	109518	tgaacccaactgtagcagcaagaac	X06086
24311	ttcattcagtagccacactgcttgg	W70486	66915	agcatttcttgcctgccacacatcc	AA064278	109519	gaacctcgaccatggggttctgttg	X06086
24312	tgtcaggcgacacttccatgtccag	D16503	66916	gcatttcttgcctgccacacatcca	AA064278	109520	ccatggggttctgttggtgggctat	X06086
24313	gcgacacttccatgtccaggttttc	D16503	66917	atttcttgcctgccacacatccacg	AA064278	109521	gcactgctgttcgtactggtgctag	W11481
24314	tcgtagctgagtgcacgctaaagga	D16503	66918	tttcttgcctgccacacatccacga	AA064278	109522	ctgctgttcgtactggtgctaggga	W11481
24315	cagctatcaaccagatcctgggcag	D16503	66919	ttcttgcctgccacacatccacgag	AA064278	109523	gatcaatgtcaacacagaggatgac	W11481
24316	agatcctgggcagaagatggcacgc	D16503	66920	tgcctgccacacatccacgagttgc	AA064278	109524	atcaatgtcaacacagaggatgacg	W11481
24317	agagacagctacacatgcagcttta	D16503	66921	cctgccacacatccacgagttgcat	AA064278	109525	aatgtcaacacagaggatgacgacg	W11481
24318	agctttatccaggctggtcagcgcg	D16503	66922	tgccacacatccacgagttgcattg	AA064278	109526	tgacgacgacgatgacgacgatgac	W11481
24319	atccaggctggtcagcgcgagacaa	D16503	66923	ccagcggcagtttccactgtagtca	AA064278	109527	tacttgttgtacctttctgccatct	W11481
24320	agtcgacttcaggtacaggtcccag	D16503	66924	gccacacatccacgagttgcattgg	AA064278	109528	acttgttgtacctttctgccatctg	W11481
24321	cttcaggtacaggtcccagaatgac	D16503	66925	cagcggcagtttccactgtagtcag	AA064278	109529	ttgttgtacctttctgccatctgtg	W11481
24322	cagctgcctacatctgaaacatggt	D16503	66926	agcggcagtttccactgtagtcagc	AA064278	109530	tgttgtacctttctgccatctgtgc	W11481
24323	cctacatctgaaacatggtggtaag	D16503	66927	gcggcagtttccactgtagtcagca	AA064278	109531	tgtacctttctgccatctgtgccct	W11481
24324	cttccatgtccaggttttcccatca	D16503	66928	ggcagtttccactgtagtcagcagg	AA064278	109532	tacctttctgccatctgtgcccttc	W11481
24325	ggccctcttctggagatggaagctt	D16503	66929	gcagtttccactgtagtcagcagga	AA064278	109533	gctgttcgtactggtgctagggacg	W11481
24326	ggttttcccatcatatgattcctgg	D16503	66930	tcagcaggagctgtgtctttggctt	AA064278	109534	ttcgtactggtgctagggacgccca	W11481
24327	caactggcatccctcatccagctat	D16503	66931	ggagctgtgtctttggctttggttc	AA064278	109535	cgtactggtgctagggacgcccagg	W11481
24328	cagctattgtaacacctcaggtcaa	D16503	66932	agagctccagatcatgagaaagcta	AA064355	109536	gtactggtgctagggacgcccaggt	W11481
24329	ttgtaacacctcaggtcaaacagga	D16503	66933	gctagaccactgtaacatagtccga	AA064355	109537	ctggtgctagggacgcccaggttag	W11481
24330	cccacacggacagtgacctaatgca	D16503	66934	cgagccaagcagacactccctgtga	AA064355	109538	ttggacttccctgagtacgacggtg	W11481
24331	agcctcaacacgaacagagaaagga	D16503	66935	gccaagcagacactccctgtgatct	AA064355	109539	tacgacggtgtggaccgtgtgatca	W11481
24332	ctcatattaagaagcctctgaatgc	D16503	66936	aagcagacactccctgtgatctatg	AA064355	109540	cgacggtgtggaccgtgtgatcaat	W11481
24333	tccatatgtggcatcgagaacagag	L32836	66937	atgtatcagctgttcagaagtctag	AA064355	109541	tgcctatcaatgtgtttgcgaccat	W78521
24334	catgatctcagaagtcttggaagtc	L32836	66938	ctgttcagaagtctagcctatatcc	AA064355	109542	atgtgtttgcgaccatgagacagat	W78521
24335	gcagatccattggtttctcagtcca	L32836	66939	agtctagcctatatccattccttg	AA064355	109543	caaggtgcgccaatggcatcttgtc	W78521
24336	caagaacgagctccaccaaagagca	L32836	66940	ctagcctatatccattccttggaa	AA064355	109544	gcgccaatggcatcttgtcatccct	W78521
24337	cgagctccaccaaagagcaggaacc	L32836	66941	gcctatatccattccttggaatct	AA064355	109545	ccaatggcatcttgtcatccctcac	W78521
24338	gccttttactgttgggcagtctct	L32836	66942	atccattccttggaatctgccatc	AA064355	109546	tcacccgaatctcacttccagtgaa	W78521
24339	ttaaacctcatgatactgagttggt	L32836	66943	tccttggaatctgccatcgagaca	AA064355	109547	gaatctcacttccagtgaacttgca	W78521
24340	tccctatttcacaagggttcaggat	L32836	66944	taacatagtccgactgcggtatttc	AA064355	109548	ttccagtgaacttgcagggaggcag	W78521
24341	tttcacaagggttcaggatagatta	L32836	66945	catagtccgactgcggtatttcttc	AA064355	109549	ctggtatagctcctttgtgtgagca	W78521
24342	atggttcctgtcacaagcccaggtc	L32836	66946	gcggtatttcttctactcgagtggt	AA064355	109550	ggaactttgctaactccagcagttc	W78521
24343	acaagcccaggtcacaaacagatta	L32836	66947	tgaggtctaccttaacctggtgctg	AA064355	109551	actttgctaactccagcagttcgtt	W78521
24344	tctactgcctaaagaattttggctc	L32836	66948	ccttaacctggtgctggactatgtt	AA064355	109552	ttgctaactccagcagttcgttatg	W78521

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24345	tggtcacaagccatgcaccttatca	L32836	66949	taacctggtgctggactatgttccg	AA064355	109553	tgtttgcgaccatgagacagatcgt	W78521
24346	caagccatgcaccttatcattgata	L32836	66950	ctatgttccggagacagtgtacaga	AA064355	109554	gacagatcgtgtctggatgggccca	W78521
24347	atgcaccttatcattgataccctca	L32836	66951	agtcgccagaactatagtcgagcca	AA064355	109555	gggcccaaccaactgcttcaacagc	W78521
24348	cttatcattgataccctcacttggt	L32836	66952	ggctcgctgttaccggtactgtaag	AA064360	109556	aaccaactgcttcaacagctattgc	W78521
24349	accctcacttggtctttagatctgt	L32836	66953	gaagatccgcatctttgacctgggt	AA064360	109557	ctgcttcaacagctattgcaaggtg	W78521
24350	acttggtctttagatctgtgtgcct	L32836	66954	ttggaagcccttgatggcggatcga	AA064360	109558	cttcaacagctattgcaaggtgcgc	W78521
24351	tctttagatctgtgtgcctggtttg	L32836	66955	tggaagcccttgatggcggatcgaa	AA064360	109559	ctattgcaaggtgcgccaatggcat	W78521
24352	tggtttgcagatccattggtttctc	L32836	66956	gaagcccttgatggcggatcgaatc	AA064360	109560	ttgcaaggtgcgccaatggcatctt	W78521
24353	ctctacttcatctccaggggctcca	AA049902	66957	aagcccttgatggcggatcgaatct	AA064360	109561	atctcctatttgtgatcattcacag	M81477
24354	ttcatctccaggggctccatcgaga	AA049902	66958	cccttgatggcggatcgaatctgcg	AA064360	109562	tgatcattcacagaacagagtgatg	M81477
24355	gacttgctggaggtgttggacatgt	AA049902	66959	gatcgaatctgcgcaacaaggttca	AA064360	109563	ggcttgctaaccctgtagattgcct	M81477
24356	tatcccgagttctcagatcactttt	AA049902	66960	tcgaatctgcgcaacaaggttcatg	AA064360	109564	ctaaccctgtagattgcctcacaag	M81477
24357	gagttctcagatcacttttggtcta	AA049902	66961	cgaatctgcgcaacaaggttcatgg	AA064360	109565	accctgtagattgcctcacaagttg	M81477
24358	tcagatcacttttggtctagcctgg	AA049902	66962	aatctgcgcaacaaggttcatgggt	AA064360	109566	gcctcacaagttgtctgtttacaaa	M81477
24359	cacttttggtctagcctggagatca	AA049902	66963	atctgcgcaacaaggttcatgggta	AA064360	109567	agtaagctttccatccaggggatga	M81477
24360	tggtctagcctggagatcaccttca	AA049902	66964	tgagtttccactctgccggcacatg	AA064360	109568	aagctttccatccaggggatgaaga	M81477
24361	agcctggagatcaccttcaaccttc	AA049902	66965	ttccactctgccggcacatggtgtc	AA064360	109569	gcaaaccctttaatttgatgtattg	M81477
24362	gagatcaccttcaaccttcgagata	AA049902	66966	cactctgccggcacatggtgtcgga	AA064360	109570	ctttgtattgtactgccattcctaa	M81477
24363	aaccttcgagataccaacatgattc	AA049902	66967	ggcacatggtgtcggacgagtatga	AA064360	109571	tgtattgtactgccattcctaatgt	M81477
24364	accaacatgattcctggctccccag	AA049902	66968	gcacatggtgtcggacgagtatgaa	AA064360	109572	gtactgccattcctaatgtatttttt	M81477
24365	gacatctttggagagcctctgaacc	AA049902	66969	catggtgtcggacgagtatgaacaa	AA064360	109573	tcattcacagaacagagtgatggtt	M81477
24366	gagcctctgaacctatatgcccgtc	AA049902	66970	tccttggaagcccttgatggcggat	AA064360	109574	aacagggcttccttctaaggtgcag	M81477
24367	ctgaacctatatgcccgtcctggaa	AA049902	66971	ccttggaagcccttgatggcggatc	AA064360	109575	agggcttccttctaaggtgcaggat	M81477
24368	ctatatgcccgtcctggaaagtcca	AA049902	66972	cagggtctcacatctatgcaggaat	X81633	109576	gagcattctacggaaacgtattcga	M81477
24369	ctcacgtactgtgacctgcacaaga	AA049902	66973	ttcagaggccttctacaggaggcac	X81633	109577	aaaggctacgacggctcagaaggtg	M81477
24370	tactgtgacctgcacaagatccatc	AA049902	66974	ctgtccttgagtatgctctactgat	X81633	109578	tacgacggctcagaaggtgcagcag	M81477
24371	gacctgcacaagatccatcgtgatg	AA049902	66975	atgctctactgatccaattactttg	X81633	109579	agacacctaaatgttcatgacttga	M81477
24372	atccatcgtgatgacttgctggagg	AA049902	66976	cagctttgctgagttggtctcgaga	X81633	109580	tgaacctttgatgtgcaaagcaaga	M81477
24373	atgtagaggcctggttcttcagtaa	D16313	66977	ctcgagaactcaccaagaaactcac	X81633	109581	ctcccgtcagtcatttctaggtatg	AA060106
24374	aggcctggttcttcagtaagactga	D16313	66978	aactcacagccaagagccggcaggc	X81633	109582	ccgtcagtcatttctaggtatgtgt	AA060106
24375	tgcagcagatccaggggtcattac	D16313	66979	cagccaagagccggcaggcccttca	X81633	109583	agatgccttggctctgacccatcta	AA060106
24376	agcagatccaggggtcattaccgg	D16313	66980	agagccggcaggcccttcaggaacg	X81633	109584	cttggctctgacccatctactgagt	AA060106
24377	gggtcattaccggtctggagactca	D16313	66981	cccttcaggaacgtgatgctgcaat	X81633	109585	ccatctactgagtcagggtcttcag	AA060106
24378	ttaccggtctggagactcagctgag	D16313	66982	gtcaaatcgaacaactgaagttgga	X81633	109586	tctactgagtcagggtcttcagagg	AA060106
24379	gtgagctccactctcagatggaggc	D16313	66983	aactgttgatctgcttgctgtgtgg	X81633	109587	actgagtcagggtcttcagaggaag	AA060106
24380	acatgctgctggacatcaagactcg	D16313	66984	gaggcacagacccaactgatagggc	X81633	109588	ttctagcagttgtcttagctgctaa	AA060106
24381	gcagcagcagcaatttccatatcag	D16313	66985	atagggcttcacacagaacaaaagg	X81633	109589	tcttagctgctaagcatcattatca	AA060106
24382	gcagcaatttccatatcagtgtgga	D16313	66986	gagctggctcagcagacagtgagtc	X81633	109590	ctgctaagcatcattatcaggcagc	AA060106
24383	gcaatttccatatcagtgtggagga	D16313	66987	ctgagttctgccttgcagcaggact	X81633	109591	atcattatcaggcagccagtgagca	AA060106
24384	atttccatatcagtgtggaggaatc	D16313	66988	tctgccttgcagcaggactggacat	X81633	109592	attatcaggcagccagtgagcatgt	AA060106
24385	tcacagacctgagacggaccctgca	D16313	66989	tggacatcagtccaattgaatgtga	X81633	109593	tcagtcatttctaggtatgtgtata	AA060106
24386	acctgagacggaccctgcaggggct	D16313	66990	tcccttagaggcaatttcctgtcct	X81633	109594	caccctagcattacctctgagcaaa	AA060106
24387	gcatgaaagccgggctggagaactc	D16313	66991	aatttcctgtccttgagtatgctct	X81633	109595	cctagcattacctctgagcaaacgg	AA060106
24388	actctctggcagaggtggagtgccg	D16313	66992	ccatatccattctggctaccacctt	Z36885	109596	aagcttgcagtgtcctgtgggtcat	AA060106
24389	tggagtgccgctatgccacacagct	D16313	66993	caccactgagttctaacccagacat	Z36885	109597	cacacaaaatctcctgggcacaggg	AA060106
24390	agtgccgctatgccacacagctgca	D16313	66994	cccttgtggtcacaggcagtgaccc	Z36885	109598	aaatctcctgggcacagggcacaca	AA060106
24391	atgccacacagctgcagcagatcca	D16313	66995	cactcttttcacagactcccatctt	Z36885	109599	cacagggcacacagatgccttggct	AA060106
24392	ccacacagctgcagcagatccaggg	D16313	66996	agactcccatcttgctgactccgag	Z36885	109600	gcacacagatgccttggctctgacc	AA060106
24393	ttcttgcagatcggattctcctcat	W70629	66997	tttggagcactctcagtccgtttgc	Z36885	109601	tcttatctgtactcatgagggtacc	M35684
24394	cagatcggattctcctcatggacac	W70629	66998	tcagtccgtttgctcccttgagccc	Z36885	109602	tatctgtactcatgagggtacctgg	M35684
24395	atgagaatttccggcaccttctgca	W70629	66999	ttccctctgtactcaacagtcatgg	Z36885	109603	ttgcaaataccgtaggtggtcaact	M35684
24396	ggcaccttctgcaagccccagtaga	W70629	67000	ctgtactcaacagtcatgggccgct	Z36885	109604	gtggtcaactattcctcttatttgt	M35684
24397	ttctgcaagccccagtagatgatgc	W70629	67001	tcaacagtcatgggccgctcactct	Z36885	109605	gtcaactattcctcttatttgtggt	M35684
24398	aagccccagtagatgatgcacaaga	W70629	67002	tcactctttcaggactggagggacc	Z36885	109606	tatttctgtgggctcagcacttatc	M35684
24399	cacaagagattcttcactccagatt	W70629	67003	tttcccccagactgcagaagacata	Z36885	109607	tgtgggctcagcacttatcattttg	M35684
24400	agattcttcactccagatttccaat	W70629	67004	tgagttctaacccagacattgacac	Z36885	109608	gggctcagcacttatcattttgatg	M35684
24401	ttcactccagatttccaatgccgag	W70629	67005	ctaacccagacattgacacagacat	Z36885	109609	acttatcattttgatgagtgtcggc	M35684
24402	ccagatttccaatgccgagatacat	W70629	67006	ttgagtcagtggcttctcagccaat	Z36885	109610	gagtgtcggcttctgtatgatatta	M35684
24403	ttccaatgccgagatacattgacac	W70629	67007	cttctcagccaatggaacttccaga	Z36885	109611	agctcttcatttagaaacacgagaa	M35684
24404	tcaacccttcacagactcataataa	W70629	67008	tggaacttccagagaacttatcact	Z36885	109612	tcttcatttagaaacacgagaagta	M35684
24405	tcctcatggacacgttcttccagat	W70629	67009	tatcactggagcctaaaaatgagga	Z36885	109613	ggtaaactgtagcttccctgaagat	M35684
24406	cccttcacagactcataataacatg	W70629	67010	attcagctttggcagaaaaggacaa	Z36885	109614	ctgtagcttccctgaagatacaaat	M35684
24407	tggacacgttcttccagattttgat	W70629	67011	ataactcatcaagatctaagaagcc	Z36885	109615	tagcttccctgaagatacaaatgga	M35684
24408	cgttcttccagattttgatttatca	W70629	67012	aacttggctctgcctttgtttagct	X62581	109616	cttccctgaagatacaaatggaatc	M35684
24409	ttttgatttatcacggtgagactat	W70629	67013	tttagcttttctgcacctctggctc	X62581	109617	tggggctactgtgactctggaatgt	M35684
24410	tttatcacggtgagactatagcaca	W70629	67014	aagtcacttgtgtttgagctgtgct	X62581	109618	aagtccccagagccagtgccaggat	M35684
24411	agactatagcacagtggcggaagtc	W70629	67015	ctgtgctgcaacagtgacagtggag	X62581	109619	gagccagtgccaggatgacagccaa	M35684
24412	tagcacagtggcggaagtcaggata	W70629	67016	gttccttatgtacgatacatcatcc	X62581	109620	tcccttggctctttgcaaataccgt	M35684

TABLE 1

SEQ ID NO	sequence	DBAxnID
24413	caggataccaggacatgccagaata	W70629
24414	tggctgcctacgatgaggagagtga	U19604
24415	aggaacaccaccagagcctgcaggc	U19604
24416	agccagagcaggccactaccagtaa	U19604
24417	cctctttgtaccggaagcagagtca	U19604
24418	ctttgtaccggaagcagagtcagat	U19604
24419	tgtaccggaagcagagtcagattca	U19604
24420	agattcagaaccaacaaagctcaga	U19604
24421	ttcagaaccaacaaagctcagactt	U19604
24422	aaagctcagacttggactccgacgt	U19604
24423	gctcagacttggactccgacgttga	U19604
24424	tggactccgacgttgaagactatta	U19604
24425	aagactattaacctcctgctctcct	U19604
24426	tggccccagaccattggctggaccc	U19604
24427	ccccagaccattggctggacccaag	U19604
24428	cagaccattggctggacccaagcat	U19604
24429	accctgctgcacggggcctggtgga	U19604
24430	tcattcgtgtccgtaaagacaagca	U19604
24431	ttcgtgtccgtaaagacaagcagcc	U19604
24432	aagacaagcagccagagcaggccac	U19604
24433	agcagccagagcaggccactaccag	U19604
24434	ccacagtctccactggttcggatcc	L24118
24435	ctggttcggatcccactgtgactta	L24118
24436	gagagctcttctcggcactggccca	L24118
24437	cggcactggcccagccttgacttgt	L24118
24438	tggcccagccttgacttgtcatgat	L24118
24439	agccttgacttgtcatgattcgagg	L24118
24440	tcccccaggtacttgctggagctgg	L24118
24441	gtgagcagcacacacagcctttgta	L24118
24442	agcacacacagcctttgtattcttg	L24118
24443	cacagcctttgtattcttgtagacg	L24118
24444	attcttgtagacgaccgctgttgat	L24118
24445	gtagacgaccgctgttgatgacatt	L24118
24446	tgacttaggatccccgtgactgcag	L24118
24447	aggatccccgtgactgcagtgaatc	L24118
24448	gtgaatctgcccagagactcagcag	L24118
24449	actaactcctgtcacccaatagtca	L24118
24450	tcctgtcacccaatagtcattggct	L24118
24451	cacccaatagtcattggctctgggg	L24118
24452	aaggcacctgctactccacagatcc	L24118
24453	ctctctagccatgagagctcttctc	L24118
24454	attagcaggaacagccgccttcatt	W70655
24455	aggaacagccgccttcattgactgg	W70655
24456	tgcttcccattccgggtaaagctgc	W70655
24457	ttcccattccgggtaaagctgcagc	W70655
24458	ccattccgggtaaagctgcagcaac	W70655
24459	aagctgcagcaacgccccgaaaaag	W70655
24460	ttacattgtaccccgctttagcacg	W70655
24461	ctcgctgcgcccagtgacacgtgct	W70655
24462	gctgcgcccagtgacacgtgctcat	W70655
24463	cccagtgacacgtgctcatatcgac	W70655
24464	agtgacacgtgctcatatcgacaag	W70655
24465	gacacgtgctcatatcgacaagatg	W70655
24466	aacagccgccttcattgactggttg	W70655
24467	gtgctcatatcgacaagatgtgttt	W70655
24468	agccgccttcattgactggttgccc	W70655
24469	gccccagaggcttttccagttatat	W70655
24470	ccagaggcttttccagttatatgtc	W70655
24471	gcttttccagttatatgtcaatcat	W70655
24472	atatgtcaatcatgtcttctgtgct	W70655
24473	tgtcaatcatgtcttctgtgcttgt	W70655
24474	caatcatgtcttctgtgcttgtgtc	W70655
24475	tcggccagattgtcaacacgctgga	L25890
24476	agattgtcaacacgctggacaagat	L25890
24477	ctttcgacgttgtatctcagatgat	L25890
24478	acgttgtatctcagatgatgatgga	L25890
24479	ttctccgcgttggggtcactctagc	L25890
24480	tcctgaacagtatccaggtgatgcg	L25890

SEQ ID NO	sequence	DBAxnID
67017	tatgtacgatacatcatccgctgat	X62581
67018	cgatacatcatccgctgatctctttt	X62581
67019	tcttactgactccgttctttcagat	X62581
67020	cgttctttcagatctctcagtctat	X62581
67021	ttcagatctctcagtctatatcaaa	X62581
67022	tctctcagtctatatcaaaaccttt	X62581
67023	tatcaaaaccttttctagttatgagg	X62581
67024	gcacctctggctccagagtgtcatc	X62581
67025	ctggctccagagtgtcatcagttct	X62581
67026	tgtcatcagttctatgatcaagagt	X62581
67027	ggactgcaacctagcggtgaggaga	X62581
67028	caacctagcggtgaggagatgacct	X62581
67029	tattctgtctttatgccagccagca	X62581
67030	gtctttatgccagccagcaagctca	X62581
67031	atgccagccagcaagctcaaagaac	X62581
67032	cttgtggaaggcctagctggttgag	AA064397
67033	tggaaggcctagctggttgagacct	AA064397
67034	caacagaagcgctcggagcccagtg	AA064397
67035	aacagaagcgctcggagcccagtgt	AA064397
67036	cagaagcgctcggagcccagtgtga	AA064397
67037	gtgataacatgcttatctgggaaca	AA064397
67038	tgataacatgcttatctgggaacac	AA064397
67039	gataacatgcttatctgggaacaca	AA064397
67040	ataacatgcttatctgggaacacaa	AA064397
67041	taacatgcttatctgggaacacaaa	AA064397
67042	aacatgcttatctgggaacacaaat	AA064397
67043	catgcttatctgggaacacaaatcc	AA064397
67044	ggaaggcctagctggttgagaccta	AA064397
67045	gaaggcctagctggttgagacctag	AA064397
67046	aaggcctagctggttgagacctagc	AA064397
67047	aggcctagctggttgagacctagca	AA064397
67048	cctagctggttgagacctagcagat	AA064397
67049	ttgagacctagcagatttggttgaa	AA064397
67050	agacctagcagatttggttgaaaga	AA064397
67051	gcaacagaagcgctcggagcccagt	AA064397
67052	gtgatacttgcggcaaagcttcagc	AA064411
67053	tgatacttgcggcaaagcttcagcc	AA064411
67054	ttcagtgactgttcagctctggtcc	AA064411
67055	cagtgactgttcagctctggtccgg	AA064411
67056	agtgactgttcagctctggtccggc	AA064411
67057	gactgttcagctctggtccggcacc	AA064411
67058	ctgttcagctctggtccggcacctg	AA064411
67059	tgttcagctctggtccggcacctga	AA064411
67060	ttcagctctggtccggcacctgaga	AA064411
67061	tcagctctggtccggcacctgagag	AA064411
67062	ccggcacctgagagtccactctgga	AA064411
67063	cggcacctgagagtccactctggag	AA064411
67064	tacttgcggcaaagcttcagccaga	AA064411
67065	ttgcggcaaagcttcagccagagca	AA064411
67066	gcaaagcttcagccagagcacccac	AA064411
67067	gaaagccttcagtgactgttcagct	AA064411
67068	aaagccttcagtgactgttcagctc	AA064411
67069	agccttcagtgactgttcagctctg	AA064411
67070	gccttcagtgactgttcagctctgg	AA064411
67071	cttcagtgactgttcagctctggtc	AA064411
67072	agtctttcactcagagacagcacct	AA064467
67073	ctttcactcagagacagcacctgcc	AA064467
67074	accttgcaagagggcctgcagttgc	AA064467
67075	ttgcaagagggcctgcagttgccat	AA064467
67076	ctgcagttgccatcactcactgcaa	AA064467
67077	cagctcccgctcgaatctgatggtg	AA064467
67078	ctcgaatctgatggtgtggaatgct	AA064467
67079	tataaacggacgtcgactttcattg	AA064467
67080	acgtcgactttcattgcgacgtgga	AA064467
67081	actttcattgcgacgtggagactgt	AA064467
67082	ttcattgcgacgtggagactgtttg	AA064467
67083	ctgtttgactgatcacgagtatgcg	AA064467
67084	agagacagcacctgccctcgagcgc	AA064467

SEQ ID NO	sequence	DBAxnID
109621	tccccagaatccttcagaaggccag	AA021788
109622	ccagaatccttcagaaggccagccg	AA021788
109623	ggccaatttgccatcgtgcgcaagt	AA021788
109624	caatttgccatcgtgcgcaagtgcc	AA021788
109625	gccatcgtgcgcaagtgccagcaga	AA021788
109626	atcgtgcgcaagtgccagcagaagg	AA021788
109627	cgcaagtgccagcagaagggcacgg	AA021788
109628	gcagccaagttcatcaagaagcggc	AA021788
109629	aagttcatcaagaagcggcgcctgc	AA021788
109630	ttcatcaagaagcggcgcctgccat	AA021788
109631	ccatccagccggcgcggtgtgagcc	AA021788
109632	caccccaacatcataacactgcatg	AA021788
109633	gaatccttcagaaggccagccgcca	AA021788
109634	cccaacatcataacactgcatgacg	AA021788
109635	ttcagaaggccagccgccatgtcca	AA021788
109636	agaaggccagccgccatgtccacat	AA021788
109637	aggccagccgccatgtccacattca	AA021788
109638	gccatgtccacattcaggcaagagg	AA021788
109639	atgtccacattcaggcaagaggatg	AA021788
109640	tccacattcaggcaagaggatgttg	AA021788
109641	agtggccaatttgccatcgtgcgca	AA021788
109642	ttcagctcaagtgctatagaaagcc	U38477
109643	gctatagaaagcccgacctagagag	U38477
109644	ccctgctcctgagtgacagggatga	U38477
109645	tctgagtgttctcctgggcaggcca	U38477
109646	tgttctcctgggcaggccatggcgc	U38477
109647	atggcgctccttctgggtgagcctg	U38477
109648	ctccttctgggtgagcctgctcctg	U38477
109649	cttaacaagccactgtgggatggac	U38477
109650	aagccactgtgggatggacgaagct	U38477
109651	aagtataccattcctgcttttcatg	U38477
109652	gagatcacaccctgcttgggaggaa	U38477
109653	ggaggaaaccatcactcttcactga	U38477
109654	gaaagcccgacctagagagatatga	U38477
109655	cactgaaccctgccaactatatttg	U38477
109656	gatatgaggcccaggcccacggccg	U38477
109657	tgagtgcctcccaagtcagcgtgca	U38477
109658	gcatggatgaccggcgtcgggattc	U38477
109659	tgagccaagtgtctctgtcctccct	U38477
109660	aagtgtctctgtcctccctgacgtc	U38477
109661	cctccctgacgtcagacagattgtc	U38477
109662	aatggtccctgctcctgagtgacag	U38477
109663	aagacctcctggagccgagaactga	M87539
109664	ctgatcctgacaatgacagcagatg	M87539
109665	gacgacttccgtgcccgctacagga	M87539
109666	cgtgcccgctacaggacacaaacct	M87539
109667	ctcccacgtccatcttacaaactag	M87539
109668	ttactcctgagggttactgcttcct	M87539
109669	tctttgccttctctaagccagagag	M87539
109670	gggtccttcctggaagagactgtct	M87539
109671	gagactgtctctctggcctctactc	M87539
109672	tctctggcctctactccttatcctt	M87539
109673	tctactccttatccttgtagtctgt	M87539
109674	ccttatccttgtagtctgtgtgatt	M87539
109675	atcctgacaatgacagcagatgacg	M87539
109676	tgcaccagggtctacgtccgagagt	M87539
109677	accagggtctacgtccgagagtgag	M87539
109678	tgagtgcctacgggtccaagaactg	M87539
109679	cctacgggtccaagaactgcctgag	M87539
109680	ccaagaactgcctgagacgacttcc	M87539
109681	agaactgcctgagacgacttccgtg	M87539
109682	gcctgagacgacttccgtgcccgct	M87539
109683	gcctgcagtggacttcaacatatgg	W11590
109684	cttcaacatatggcctgggagttct	W11590
109685	cagctggtctcatcattggtgggaa	W11590
109686	gtctcatcattggtgggaaggatct	W11590
109687	ggatcaacaacataaacatactggt	W11590
109688	acaacataaacatactggtttgcac	W11590

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24481	tccaggtgatgcgggcccagatgaa	L25890	67085	tgatcacgagtatgcgcaggacgaa	AA064467	109689	taaacatactggtttgcacaccagg	W11590
24482	aggtttgacattcgcctgcctcggt	L25890	67086	acctgccctcgagcgcatactgagt	AA064467	109690	tactggtttgcacaccaggtcgact	W11590
24483	ccctgctgctctgtcactgcaggtc	L25890	67087	tgccctcgagcgcatactgagtatc	AA064467	109691	tttgcacaccaggtcgacttcttca	W11590
24484	gtcactgcaggtcagcactgccagg	L25890	67088	cctcgagcgcatactgagtatcagt	AA064467	109692	caccaggtcgacttcttcaacacat	W11590
24485	cagcactgccaggaggccacagaca	L25890	67089	gaagaaaatcatcctaccttgcaag	AA064467	109693	gtcgacttcttcaacacatggatgt	W11590
24486	tgccaggaggccacagacaacagga	L25890	67090	aatcatcctaccttgcaagagggcc	AA064467	109694	ttcttcaacacatggatgtaacaat	W11590
24487	tgatccgaaaccccaacagcctcaa	L25890	67091	catcctaccttgcaagagggcctgc	AA064467	109695	catatggcctgggagttctgataat	W11590
24488	aggccacagacaacaggaagaccaa	L25890	67092	cctaccttgcaagagggcctgcagt	AA064467	109696	tgataatatcacctactcgagaact	W11590
24489	aagccatggcacccctgtcctctgg	L25890	67093	atgctacaaacttctcataactacc	X65138	109697	tatcacctactcgagaactggccta	W11590
24490	cactgctggaccgcacgataccgga	L25890	67094	caaacttctcataactaccttatgg	X65138	109698	ctactcgagaactggcctatcatac	W11590
24491	tggaccgcacgataccggactacac	L25890	67095	ttcgcccaggaaaacgacatccagc	X65138	109699	gagaactggcctatcatacatttga	W11590
24492	gcacgataccggactacaccagctt	L25890	67096	atccagctttggcatcttgttctca	X65138	109700	tggcctatcatacatttgaggttct	W11590
24493	actacaccagctttaacacagtgga	L25890	67097	catcttgttctcagctgcactgagg	X65138	109701	atcatgatttttcagctggtctcat	W11590
24494	ttaacacagtggatgagtggctaga	L25890	67098	cttgttctcagctgcactgaggaat	X65138	109702	atttttcagctggtctcatcattgg	W11590
24495	aggccatcaagatgggccagtacaa	L25890	67099	tgtgctgtctcgaggcaccagctct	X65138	109703	tctctctgcaacgcagcgtgcgacc	X51715
24496	aatcctattgaactgctcaacctca	W70579	67100	gctgtctcgaggcaccagctctgca	X65138	109704	tctctgcaacgcagcgtgcgacccg	X51715
24497	attgaactgctcaacctcaacgaga	W70579	67101	aggcaccagctctgcagagcccttg	X65138	109705	atccgccaagacggggatcagttct	X51715
24498	gaatgtccctggcaggctctgctca	W70579	67102	agagcccttgctcccaaactccttg	X65138	109706	ggatcagttctacatcaagacatcc	X51715
24499	tggcaggctctgctcattaacgaag	W70579	67103	atacgtatttccatatttcattcct	X65138	109707	gatcagttctacatcaagacatcca	X51715
24500	caggctctgctcattaacgaagaca	W70579	67104	ccgctgcatccgtgtggcagcaagt	X65138	109708	atcagttctacatcaagacatccac	X51715
24501	ggcaccatcttgaatgagttctaca	W70579	67105	gattctggtatctcagcctcacagc	X65138	109709	cagttctacatcaagacatccacta	X51715
24502	aatgagttctacatcctcactgctg	W70579	67106	tctggtatctcagcctcacagccct	X65138	109710	agttctacatcaagacatccactac	X51715
24503	gagttctacatcctcactgctgccc	W70579	67107	tcagcctcacagcccttcctgttga	X65138	109711	gttctacatcaagacatccactact	X51715
24504	actgctgcccactgtctccatcagg	W70579	67108	attacataagcgcttggaagaaaat	X65138	109712	tcaagacatccactactgtgcgcac	X51715
24505	cactgtctccatcaggccaggcgat	W70579	67109	tctcttctgccggtttttgaggcaa	X65138	109713	aagacatccactactgtgcgcacca	X51715
24506	tgtctccatcaggccaggcgattca	W70579	67110	acacgacaaaacacctgcacctgaa	X65138	109714	agacatccactactgtgcgcaccac	X51715
24507	catcaggccaggcgattcaaggtga	W70579	67111	cgacaaaacacctgcacctgaacag	X65138	109715	tctgcaacgcagcgtgcgacccgtc	X51715
24508	gaactgctcaacctcaacgagacac	W70579	67112	atgtgtcaagtccccttcgcccagg	X65138	109716	aagatgcgcagcagcgagaatttcg	X51715
24509	ctgctcaacctcaacgagacacagc	W70579	67113	aaaccatttctaatgagcagagagc	Z15119	109717	tgtgaacgccatgctgaggaaggtg	X51715
24510	aacctcaacgagacacagcctgaga	W70579	67114	ttacaaatctaactttagctctgtg	Z15119	109718	cggctgcgtctaagccgcacgtgga	X51715
24511	ctcaacgagacacagcctgagagga	W70579	67115	cctgcaattaccgagccacaaagtc	Z15119	109719	taagccgcacgtggagatccgccaa	X51715
24512	aacgagacacagcctgagaggagca	W70579	67116	ccatgtaccagagcccaatgaggct	Z15119	109720	agccgcacgtggagatccgccaaga	X51715
24513	acacagcctgagaggagcagcgatg	W70579	67117	accagagcccaatgaggctccgatg	Z15119	109721	ccgcacgtggagatccgccaagacg	X51715
24514	agcagcgatgaccttgttcggattg	W70579	67118	tgaggctccgatgttcaaccattca	Z15119	109722	gatccgccaagacggggatcagttc	X51715
24515	agcgatgaccttgttcggattgtgg	W70579	67119	gttcaaccattcagtcctcatcaat	Z15119	109723	tcggcctgtgacagcgcgacgagcg	AA015415
24516	tactactgcacagcagacaacaact	W70578	67120	agtcctcatcaatcatcctcctcga	Z15119	109724	ctcccgatcggacggatgtatgaca	AA015415
24517	tactgcacagcagacaacaactacg	W70578	67121	tcctcgataccttctcactgaaaa	Z15119	109725	catctctaagaccaagcaagtgatc	AA015415
24518	ctctccatcagtgttcctggggtct	W70578	67122	ataccttctcactgaaaacgatgg	Z15119	109726	agaccaagcaagtgatccaggggct	AA015415
24519	tccatcagtgttcctggggtcttgc	W70578	67123	aggtcagctacatattgcaggaacg	Z15119	109727	gaatgagcacaactccatcctgcag	AA015415
24520	gttcctggggtcttgcccttcatcg	W70578	67124	tattgcaggaacgggccggcctcat	Z15119	109728	atgagcacaactccatcctgcagag	AA015415
24521	gtcttgcccttcatcggagatgtgg	W70578	67125	atctaactttagctctgtgtgattc	Z15119	109729	aactccatcctgcagagtttgctgg	AA015415
24522	ttgcccttcatcggagatgtggcgg	W70578	67126	cgcaccatggcaggttcaagagtga	Z15119	109730	ctccatcctgcagagtttgctggag	AA015415
24523	acaagagagcatctcctccggttct	W70578	67127	gtgattcctgcaatcagaccactct	Z15119	109731	ccatcctgcagagtttgctggagac	AA015415
24524	cggttctctactggttttatcatga	W70578	67128	cctgcaatcagaccactctcaaaac	Z15119	109732	atcctgcagagtttgctggagacgc	AA015415
24525	ttctctactggttttatcatgaaaa	W70578	67129	atcagaccactctcaaaacactcct	Z15119	109733	gagtttgctggagacgctgaagtgc	AA015415
24526	atcatgaaaatatcactctggctaa	W70578	67130	atcctctgatctatacactcttcaa	Z15119	109734	gtttgctggagacgctgaagtgctt	AA015415
24527	atatcactctggctaacacctcggc	W70578	67131	atacactcttcaataagacatttcg	Z15119	109735	cccgatcggacggatgtatgacaac	AA015415
24528	tgcacagcagacaacaactacggcc	W70578	67132	tcttcaataagacatttcgggaagc	Z15119	109736	aacatgtccaccatggtgtacataa	AA015415
24529	gcagacaacaactacggcctgatcc	W70578	67133	acatcacctgcaattaccgagccac	Z15119	109737	catgtccaccatggtgtacataaag	AA015415
24530	gacaacaactacggcctgatccaga	W70578	67134	tgaagaccctcactgtgaagttggc	AA064569	109738	tccaccatggtgtacataaaggaag	AA015415
24531	tacggcctgatccagagtgcaatcg	W70578	67135	agaccctcactgtgaagttggcctc	AA064569	109739	aagctcacgcaggatgagatcatct	AA015415
24532	ggcctgatccagagtgcaatcgtga	W70578	67136	ggatgacctgcgcacagtgtttgac	AA064569	109740	tgagatcatctctaagaccaagcaa	AA015415
24533	gcaatcgtgaacatcaccgtgaaaa	W70578	67137	tgacctgcgcacagtgtttgacgtc	AA064569	109741	agatcatctctaagaccaagcaagt	AA015415
24534	gtgaacatcaccgtgaaaattccag	W70578	67138	cctgcgcacagtgtttgacgtcgct	AA064569	109742	atcatctctaagaccaagcaagtga	AA015415
24535	ctcctctccatcagtgttcctgggg	W70578	67139	gcgcacagtgtttgacgtcgctgtg	AA064569	109743	gaccactgatggacagcagattcta	X67719
24536	atcatcacgcagtcatagtgtgttc	W70733	67140	cacagtgtttgacgtcgctgtggac	AA064569	109744	cgatgtacaaacataccagatccgc	X67719
24537	tcatagtgtgttccagctgcagatt	W70733	67141	gtttgacgtcgctgtggacgagctc	AA064569	109745	ttactgccacaaatcagattaattt	X67719
24538	cagtctgtctacattgggactggtc	W70733	67142	tgacgtcgctgtggacgagctctct	AA064569	109746	tttttctatgcgcaaaactgcctga	X67719
24539	ggtcataatggccctgagcaataag	W70733	67143	ctctctcaaccctggcaaacagagg	AA064569	109747	ttctatgcgcaaaactgcctgaaag	X67719
24540	cataatggccctgagcaataaggag	W70733	67144	tctcaaccctggcaaacagaggttt	AA064569	109748	aaagcaactacagaatttcattcat	X67719
24541	aatggccctgagcaataaggagtcc	W70733	67145	caaccctggcaaacagaggtttgag	AA064569	109749	tcatttctgcttttgcattaaactg	X67719
24542	ccacgtgccttaccgaaacagcaag	W70733	67146	tgaagttggcctcattgttggcact	AA064569	109750	tttctgcttttgcattaaactgtga	X67719
24543	gccttaccgaaacagcaagctcacc	W70733	67147	agttggcctcattgttggcactgga	AA064569	109751	acttctgccctcaagaaatgtgcag	X67719
24544	ttaccgaaacagcaagctcacctac	W70733	67148	tggcctcattgttggcactggaagc	AA064569	109752	tctgccctcaagaaatgtgcagcgc	X67719
24545	gctcacctacttgctgcagaactct	W70733	67149	cctcattgttggcactggaagcaat	AA064569	109753	aaatgtgcagcgccaggaatcatga	X67719
24546	ctacttgctgcagaactctctgggt	W70733	67150	ggacaacggctgcctggatgacctg	AA064569	109754	tgtgcagcgccaggaatcatgaaga	X67719
24547	cttgctgcagaactctctgggtggc	W70733	67151	caacggctgcctggatgacctgcgc	AA064569	109755	gagcaccattgcccctggagttgtt	X67719
24548	tagtgtgttccagctgcagatttct	W70733	67152	ctgcctggatgacctgcgcacagtg	AA064569	109756	cattgcccctggagttgttatggcg	X67719

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24549	gttccagctgcagatttctggagag	W70733	67153	cctggatgacctgcgcacagtgttt	AA064569	109757	tgcccctggagttgttatggcgtcc	X67719
24550	ccagctgcagatttctggagagcat	W70733	67154	aacagacagtacctggatgaagata	X68837	109758	acttcctacacagcctgctgaagaa	X67719
24551	tcccctcaaccttgtggacctagct	W70733	67155	gatatgctcctgaaagtgctggagt	X68837	109759	tcctacacagcctgctgaagaagca	X67719
24552	caaccttgtggacctagctgggagt	W70733	67156	tgatctctatcctgttgacagtgta	X68837	109760	tacacagcctgctgaagaagcagca	X67719
24553	ccttgtggacctagctgggagtgag	W70733	67157	ctatcctgttgacagtgtaatatct	X68837	109761	ggacctttactgccacaaatcagat	X67719
24554	tgatcgtcttcgggagacacaggcc	W70733	67158	cagatgactccaggtcattttgggg	X68837	109762	cctttactgccacaaatcagattaa	X67719
24555	cagcagtctgtctacattgggactg	W70733	67159	actccaggtcattttgggggatctg	X68837	109763	gtctgtgaactggacctggtgttca	W29424
24556	cgtggatccactgggccctcagata	L31959	67160	ggatctgcttcacttattctgagct	X68837	109764	ctgtgaactggacctggtgttcaac	W29424
24557	agatgacttgctctcagaataatat	L31959	67161	gcttcacttattctgagctgttacg	X68837	109765	tccgagagaccagccagacgaaggt	W29424
24558	acatccagctttctttaaatggact	L31959	67162	tcacttattctgagctgttacgttg	X68837	109766	agagaccagccagacgaaggtgctg	W29424
24559	atggactctagggcttgaactcagg	L31959	67163	cttattctgagctgttacgttgtgt	X68837	109767	agaccagccagacgaaggtgctgaa	W29424
24560	gcttgaactcaggtcctccagcttg	L31959	67164	atgatgctcacatatgataaagagt	X68837	109768	accagccagacgaaggtgctgaagc	W29424
24561	gtcctccagcttgcaaggcaagcac	L31959	67165	tacttataaggccttttctattgtg	X68837	109769	cagccagacgaaggtgctgaagcag	W29424
24562	caagcacttttccaattgtgctctc	L31959	67166	atgctcctgaaagtgctggagtacc	X68837	109770	gaagcagctgctgatgctgcagtcc	W29424
24563	cttttccaattgtgctctctctagc	L31959	67167	gagtacctcaaccaagagcaggcag	X68837	109771	ctgatgctgcagtccctggagtgag	W29424
24564	caattgtgctctctctagccaaata	L31959	67168	tacctcaaccaagagcaggcagagc	X68837	109772	tgctggaccaacctgcctgctcgtc	W29424
24565	tgctctctctagccaaataagtcat	L31959	67169	gagcatcttgccaagcgggccatgg	X68837	109773	cccttcctcagctggcccagaggaa	W29424
24566	gtgttttgttctctgaggatgggtt	L31959	67170	catcttgccaagcgggccatggaaa	X68837	109774	cagctggcccagaggaaggacccgg	W29424
24567	tgttctctgaggatgggtttgtgct	L31959	67171	cttgccaagcgggccatggaaaaca	X68837	109775	gaactggacctggtgttcaacttct	W29424
24568	agcctcagatgttcctcaggcacca	L31959	67172	catttctcttaagtgtgttgatctc	X68837	109776	caaggtttacacggtggtagatgag	W29424
24569	agatgttcctcaggcaccatccatc	L31959	67173	tgttgatctctatcctgttgacagt	X68837	109777	gtttacacggtggtagatgagatgt	W29424
24570	atccatcacctttttacatttgtgg	L31959	67174	tcttctacgtgatcgagacgctgga	X76290	109778	atgagatgttcctggcaggagagat	W29424
24571	tttacatttgtggcagggttcctct	L31959	67175	acgtgatcgagacgctggagccgcg	X76290	109779	gagatgttcctggcaggagagatcc	W29424
24572	ttcctctggcctggaacttgccata	L31959	67176	cagcgcaatctgcaacggaagcgag	X76290	109780	gatgttcctggcaggagagatccga	W29424
24573	ggaacttgccatataggcaagactg	L31959	67177	agccgactgcgggcatccactggta	X76290	109781	ttcctggcaggagagatccgagaga	W29424
24574	accccatgggtctgcttgtctctgc	L31959	67178	gcatccactggtactcgcagctgct	X76290	109782	gatccgagagaccagccagacgaag	W29424
24575	gccaccacatccagctttctttaaa	L31959	67179	tccactggtactcgcagctgctcta	X76290	109783	tggcttcagagatcctgggcctcag	M64278
24576	tgccacttcatccacaacgcggacg	M58564	67180	cgcagctgctctaccacattggcac	X76290	109784	cagagatcctgggcctcagctacgc	M64278
24577	ccacttcatccacaacgcggacgag	M58564	67181	agctgctctaccacattggcacctg	X76290	109785	atgtcagcacagattccttctctga	M64278
24578	gcccaagctgcatcacagcctcagt	M58564	67182	acattggcacctggctgttggacag	X76290	109786	attccttctctgaacacaggcagct	M64278
24579	cccaagctgcatcacagcctcagtt	M58564	67183	gcacctggctgttggacagcgagac	X76290	109787	tctctgaacacaggcagctttctag	M64278
24580	caagctgcatcacagcctcagtttc	M58564	67184	acagcgagaccatgcatcccttggg	X76290	109788	aacacaggcagctttctagaagttt	M64278
24581	gctgcatcacagcctcagtttctcc	M58564	67185	gcgagaccatgcatcccttgggaat	X76290	109789	ccaccttcttatccatggggcacaa	M64278
24582	ctgcatcacagcctcagtttctccg	M58564	67186	tgctcttcgtggcgccgcacaacga	X76290	109790	tcttatccatggggcacaactgcaa	M64278
24583	gcatcacagcctcagtttctccggc	M58564	67187	tgcacagcgtgacgctgcgagagga	X76290	109791	ggcacaactgcaataacttctgacc	M64278
24584	catcacagcctcagtttctccggct	M58564	67188	gcaccattctcatcaaccgggtgct	X76290	109792	gcgaaagccgagaactcctgactat	M64278
24585	tcacagcctcagtttctccggcttc	M58564	67189	ccattctcatcaaccgggtgctcgc	X76290	109793	gccgagaactcctgactattaagat	M64278
24586	tccggcgctaacaacgccttcgctt	M58564	67190	tcgcctcgtgctacgctgtcatcga	X76290	109794	aactcctgactattaagatattcca	M64278
24587	tactaccgcaaccagcagcagggcc	M58564	67191	ctgtcatcgaggagcacagctgggc	X76290	109795	ctggaggccatcttccagagaagac	M64278
24588	cacttcatccacaacgcggacgagc	M58564	67192	tcatcgaggagcacagctgggcaca	X76290	109796	gggccagccatggcttcaaggccag	M64278
24589	cttcatccacaacgcggacgagcgg	M58564	67193	gcatccctgcagcgcaatctgcaac	X76290	109797	gcttcaaggccagactgctgctcga	M64278
24590	ttcatccacaacgcggacgagcggc	M58564	67194	tttcccctgtgagtcaacacatag	Z19579	109798	aggccagactgctgctcgagtaggg	M64278
24591	catccacaacgcggacgagcggcgg	M58564	67195	ccccttgtgagtcaacacatagtgc	Z19579	109799	tgctcgagtagggctgcttccagcc	M64278
24592	agcgtttggcgcacgcgacgcgcta	M58564	67196	tcaggtcaggctgactcttagaaag	Z19579	109800	gctgcttccagccacagagcccagg	M64278
24593	gcacgcgacgcgctacacctaggct	M58564	67197	caggctgactcttagaaagggtagg	Z19579	109801	gccctggacacttctgcagggcagc	M64278
24594	cgcgacgcgctacacctaggcttcg	M58564	67198	aatcaggcttttcctctcttcaaat	Z19579	109802	tctgcagggcagccctgaatgtcag	M64278
24595	gctacacctaggcttcgcccgcgag	M58564	67199	gcttttcctctcttcaaatgtctgg	Z19579	109803	attcggaacgaggctggtgctgacc	W29304
24596	gcattgctcttcattacgtaataat	W70771	67200	tttcctctcttcaaatgtctggggc	Z19579	109804	aggctggtgctgaccatctttgcta	W29304
24597	tggttttgtggtgctcaaaggcctg	W70771	67201	cctctcttcaaatgtctggggcaaa	Z19579	109805	tattcgctttgagtggaagggcttc	W29304
24598	caatgtccatctggtttgcattgtt	W70771	67202	ctcttcaaatgtctggggcaaatca	Z19579	109806	aagggcttcaagctggtggcactga	W29304
24599	atatatctgttctgcaactcataat	W70771	67203	agtgcagcatcatacacagtatttg	Z19579	109807	ttcaagctggtggcactgagcctgc	W29304
24600	ctgttctgcaactcataatatggat	W70771	67204	gcagcatcatacacagtatttgtaa	Z19579	109808	actgagcctgctgcaggcctccgaa	W29304
24601	tatggatgtccccaacatcaaactt	W70771	67205	gcatcatacacagtatttgtaatta	Z19579	109809	agcctgctgcaggcctccgaagagc	W29304
24602	caacatcaaacttaattacttccag	W70771	67206	agtcaacacatagtgctgctgtggg	Z19579	109810	gcctccgaagagctactgcgagaca	W29304
24603	taattacttccagccgattgtcatc	W70771	67207	caacacatagtgctgctgtgggttt	Z19579	109811	ctccgaagagctactgcgagacatg	W29304
24604	cttccagccgattgtcatccagtat	W70771	67208	cacatagtgctgctgtgggtttgtt	Z19579	109812	agctactgcgagacatgtatgtcga	W29304
24605	gccgattgtcatccagtatgggtac	W70771	67209	aggatgctcttgtctctctcggtga	Z19579	109813	ctactgcgagacatgtatgtcgagc	W29304
24606	tgtcatccagtatgggtacctatcc	W70771	67210	atgctcttgtctctctcggtgactg	Z19579	109814	atgtatgtcgagctgcacgagaaac	W29304
24607	cctatccctgttccaggacagtggg	W70771	67211	actgtcccatggagccacacgtcag	Z19579	109815	gctggtgctgaccatctttgctaac	W29304
24608	gctcaaaggcctgccatgtaagatc	W70771	67212	agccacacgtcaggtcaggctgact	Z19579	109816	gtgctgaccatctttgctaacctct	W29304
24609	aggcctgccatgtaagatcgtctat	W70771	67213	cacacgtcaggtcaggctgactctt	Z19579	109817	gctgaccatctttgctaacctcttc	W29304
24610	cgtctatatgtctacttctgttact	W70771	67214	cctcattcccaggcaccagcaagta	AA064592	109818	ggcatgcctgaagccagtactcccg	W29304
24611	tatgtctacttctgttactggcaat	W70771	67215	cattcccaggcaccagcaagtattt	AA064592	109819	tgcctgaagccagtactcccgcagc	W29304
24612	tacttctgttactggcaatcattgt	W70771	67216	ctactctgcactgggcttcttaaaa	AA064592	109820	tgaagccagtactcccgcagcctac	W29304
24613	tgttactggcaatcattgtcatgtc	W70771	67217	ctctgcactgggcttcttaaaaggc	AA064592	109821	gatagctattcgctttgagtggaag	W29304
24614	tcattgtcatgtcaatgtccatctg	W70771	67218	cttcttaaaaggctgcctcacattg	AA064592	109822	tagctattcgctttgagtggaaggg	W29304
24615	tcatgtcaatgtccatctggtttgc	W70771	67219	cttaaaaggctgcctcacattgatc	AA064592	109823	cagagcctacaacctacttccttct	M13018
24616	ttcatctaactttcagaaattggag	M58566	67220	aggctgcctcacattgatctgctga	AA064592	109824	gagcctacaacctacttccttctag	M13018

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24617	aaatgttgcttatcactgcacatca	M58566	67221	ctgcctcacattgatctgctgataa	AA064592	109825	ggccttgtccctagacagcagggct	M13018
24618	attctccccctttgtgttggactgca	M58566	67222	cctcacattgatctgctgataagct	AA064592	109826	gccttgtccctagacagcagggctc	M13018
24619	tctcccctttgtgttggactgcaaa	M58566	67223	cacattgatctgctgataagctaca	AA064592	109827	ccttgtccctagacagcagggctct	M13018
24620	ccctttgtgttggactgcaaattga	M58566	67224	aaacttttgcagcatcatattttga	AA064592	109828	cttgtccctagacagcagggctctc	M13018
24621	tttctccttaggcctttcacagtag	M58566	67225	cttttgcagcatcatattttgacag	AA064592	109829	ttgtccctagacagcagggctctcc	M13018
24622	tctccttaggcctttcacagtagac	M58566	67226	tcccaggcaccagcaagtatttagc	AA064592	109830	tgtccctagacagcagggctctccg	M13018
24623	tccttaggcctttcacagtagactg	M58566	67227	caggcaccagcaagtatttagcatg	AA064592	109831	gtccctagacagcagggctctccgc	M13018
24624	cttaggcctttcacagtagactgag	M58566	67228	tcaatacttcagtcgggtgaaaatt	AA064592	109832	tccctagacagcagggctctccgca	M13018
24625	ggcctttcacagtagactgagaagt	M58566	67229	aattccagaccctgaagacatggaa	AA064592	109833	ccctagacagcagggctctccgcag	M13018
24626	ttctgtgacagtacagaaggaaaac	M58566	67230	gaaatgtccaaacatctcctactct	AA064592	109834	cctagacagcagggctctccgcagc	M13018
24627	aaccaccatttatgtatagcttct	M58566	67231	tccaaacatctcctactctgcactg	AA064592	109835	gcctacaacctacttccttctagct	M13018
24628	atgttgcttatcactgcacatcaat	M58566	67232	catctcctactctgcactgggcttc	AA064592	109836	caggcgagtgccaggccttgtccct	M13018
24629	gttgcttatcactgcacatcaatat	M58566	67233	ctcctactctgcactgggcttctta	AA064592	109837	agtgccaggccttgtccctagacag	M13018
24630	tgcttatcactgcacatcaatataa	M58566	67234	agtactcatctccaacacagagcta	Z19581	109838	gtgccaggccttgtccctagacagc	M13018
24631	gtatttattgccaaactatgctttt	M58566	67235	catctccaacacagagctagagaat	Z19581	109839	tgccaggccttgtccctagacagca	M13018
24632	tttgttcatatttatcgggatgaca	M58566	67236	ttctcacagttagttgttgctcacc	Z19581	109840	gccaggccttgtccctagacagcag	M13018
24633	tgttcatatttatcgggatgacaaa	M58566	67237	gctcaccatagtacggatgacttgt	Z19581	109841	caggccttgtccctagacagcaggg	M13018
24634	tgacgtgtctttccttttttcacag	M58566	67238	tttacatatggcttcccttggaagc	Z19581	109842	aggccttgtccctagacagcagggc	M13018
24635	tattcttcaacacatttttgtaact	M58566	67239	tggaagccctccttgactgtaactg	Z19581	109843	cccaagccggaattcatgtctaagt	AA008244
24636	acatggcccctgaaatcttaatgag	W70825	67240	cctccttgactgtaactgatgtga	Z19581	109844	atgtctaagtctctccaagagctgc	AA008244
24637	tggcccctgaaatcttaatgagaag	W70825	67241	ataaccagtgtcacatgcttgccat	Z19581	109845	atctttgtacagcaccgagtctccg	AA008244
24638	ctccattcactggggagaatagaaa	W70825	67242	aagcatgtgtcagttgtgtgggttt	Z19581	109846	tttgtacagcaccgagtctccgcct	AA008244
24639	caattgacaaaatcctcaaatgtaa	W70825	67243	tttttatctttacatacgcgcacac	Z19581	109847	gtacagcaccgagtctccgccttac	AA008244
24640	ttgacaaaatcctcaaatgtaaact	W70825	67244	tctttacatacgcgcacacacatac	Z19581	109848	caccgagtctccgccttacctgtag	AA008244
24641	cctacctcacacaagaagctcgaga	W70825	67245	cgcacacacatacacatacacttta	Z19581	109849	gtctccgccttacctgtagtggatg	AA008244
24642	acctcacacaagaagctcgagatct	W70825	67246	gagttgagcaacctcctcatctcag	Z19581	109850	gacatctactccaagtttgatgtga	AA008244
24643	aagctcgagatctgcttaaaaagct	W70825	67247	ctcctcatctcagagtttgaggatt	Z19581	109851	tactccaagtttgatgtgatcaatt	AA008244
24644	gaaatgctgcttctcgtcttggagc	W70825	67248	ttgtgggcaagggtccaggatctaa	Z19581	109852	atcaatttggcagccgaaaagacct	AA008244
24645	atgctgcttctcgtcttggagctgg	W70825	67249	ggcgtcctctgctgacactgttggt	Z19581	109853	aagacctacaacaacctagatgtgt	AA008244
24646	ctgcttctcgtcttggagctggccc	W70825	67250	ctctgctgacactgttggtctctac	Z19581	109854	tctgtgacaaaagccctgcagcatc	AA008244
24647	ctcgtcttggagctggccctgggga	W70825	67251	tgcacacaccacatggagaccagaa	Z19581	109855	aagtctctccaagagctgcagattg	AA008244
24648	tgagaagcggccacaaccgtgctgt	W70825	67252	accagaactctaaatccatggggat	Z19581	109856	tctctccaagagctgcagattggca	AA008244
24649	gaagcggccacaaccgtgctgtgga	W70825	67253	ttcaggcgctcagtgagttgagagt	Z19581	109857	ggcacctatgccaatattgccatgg	AA008244
24650	tgtatgacatgctgactggagcacc	W70825	67254	tctgagacggactcagccatgttgc	Z36293	109858	acctatgccaatattgccatggtcc	AA008244
24651	acatgctgactggagcacctccatt	W70825	67255	acggactcagccatgttgcccacgt	Z36293	109859	tatgccaatattgccatggtccgta	AA008244
24652	tgactggagcacctccattcactgg	W70825	67256	ctaacagagactcaatacagtgacc	Z36293	109860	attgccatggtccgtactaccacgc	AA008244
24653	ctggagcacctccattcactgggga	W70825	67257	caatacagtgaccacagcatgacag	Z36293	109861	gccatggtccgtactaccacgcctg	AA008244
24654	gagcacctccattcactggggagaa	W70825	67258	atcagaatccttcttgcttgatttt	Z36293	109862	gtccgtactaccacgcctgtctacg	AA008244
24655	cacctccattcactggggagaatag	W70825	67259	cttgcttgattttctccattcccca	Z36293	109863	acagacaagatgcttccccgtataa	AA123026
24656	tttattcttacatcactaaagcttt	AA154743	67260	tgattttctccattccccaagtgtt	Z36293	109864	aagatgcttccccgtataaccatca	AA123026
24657	cttacatcactaaagctttggaaca	AA154743	67261	tctccattccccaagtgttgccttt	Z36293	109865	gtgcctatggtcctattgctatgcc	AA123026
24658	tatttcctctggaagctcagctaca	AA154743	67262	tcaggtaactgcagtgcccatggac	Z36293	109866	cctatggtcctattgctatgccttg	AA123026
24659	ctctggaagctcagctacattcact	AA154743	67263	agtgcccatggaccctacagggaga	Z36293	109867	gtcctattgctatgccttgtttagt	AA123026
24660	aagctcagctacattcacttcaaac	AA154743	67264	catggaccctacagggagaaggaag	Z36293	109868	ctattgctatgccttgtttagtgta	AA123026
24661	ttcaaaccggtcctgaacatcatta	AA154743	67265	cttctcatccgctagaaactggtca	Z36293	109869	tatggcctgccaaaagaggccctca	AA123026
24662	ccggtcctgaacatcattaaggatt	AA154743	67266	ttgcctttctcttcaaagctcacct	Z36293	109870	gaggccctcaggacatcttgtgtct	AA123026
24663	tttggcatcattttcatccgataca	AA154743	67267	tggtcacataaacataccatgctga	Z36293	109871	gtctgtgctcagtggcgctgaagct	AA123026
24664	atcattttcatccgatacaaaagtg	AA154743	67268	ttctcttcaaagctcaccttggact	Z36293	109872	gctcagtggcgctgaagcttccttc	AA123026
24665	ttcatccgatacaaaagtgactgcc	AA154743	67269	tcaaagctcaccttggactttcttg	Z36293	109873	cttcctgtcctccatgatcaaaagc	AA123026
24666	gactgccaggcccttggtaccaaag	AA154743	67270	ccagtttctcacagactttctaaga	Z36293	109874	cctgtcctccatgatcaaaagcagt	AA123026
24667	cttggtaccaaagcgaccagcacga	AA154743	67271	tctaagacggtctgtaccagccagg	Z36293	109875	atgcttccccgtataaccatcacca	AA123026
24668	catcgatttgtcacctagaaagagg	AA154743	67272	tgtaccagccaggatatcagtcagg	Z36293	109876	gtcctccatgatcaaaagcagtggt	AA123026
24669	accaaagcgaccagcacgagccact	AA154743	67273	gatatcagtcaggttgctctaacag	Z36293	109877	cgtataaccatcaccatcatgtcct	AA123026
24670	tttgtcacctagaaagaggttctga	AA154743	67274	agtcaggttgctctaacagagactc	Z36293	109878	ataaccatcaccatcatgtcctgga	AA123026
24671	agagtggccatgttgccctggctac	AA154743	67275	cagtagcccagcaggagtttgattc	X80339	109879	accatcaccatcatgtcctggatgc	AA123026
24672	ttgccctggctacacatacggttac	AA154743	67276	ttgattctgtttctgaaaggtgagt	X80339	109880	ctttctcaggtgcaaggtgaagttg	AA123026
24673	tggctacacatacggttaccggctc	AA154743	67277	caggtcatcggaagctcttttgtca	X80339	109881	gatgccccatcttcacgtagcagct	AA123026
24674	cacatacggttaccggctctgctca	AA154743	67278	gtcatcggaagctcttttgtcagat	X80339	109882	tcacgtagcagctgccccaagggtc	AA123026
24675	cggttaccggctctgctcaatgtat	AA154743	67279	atcggaagctcttttgtcagatagt	X80339	109883	cccgtgcctatggtcctattgctat	AA123026
24676	gatatctatttcctctggaagctca	AA154743	67280	agctcttttgtcagatagtgcccag	X80339	109884	tgacaagtggcccgtgtctgtccga	W11665
24677	tctctcacagaggcacccagagcag	W70782	67281	tttgtcagatagtgcccagaaaaat	X80339	109885	cgtgtctgtccgagcaaatggacac	W11665
24678	ctcacagaggcacccagagcagaca	W70782	67282	tagtgcccagaaaaatcccaggaat	X80339	109886	agctgacggaatgcgcctggctctg	W11665
24679	tgcgacactacatcaatctcatcac	W70782	67283	tgcccagaaaaatcccaggaatcaa	X80339	109887	cggaatgcgcctggctctggctgat	W11665
24680	gacactacatcaatctcatcaccag	W70782	67284	ctccatgatctttcgctggggcaaa	X80339	109888	gcgcctggctctggctgatgctggt	W11665
24681	acatcaatctcatcaccagacagag	W70782	67285	catgatctttcgctggggcaaaatg	X80339	109889	tgctggtgacactgttgaagatgct	W11665
24682	tcaatctcatcaccagacagagata	W70782	67286	gatctttcgctggggcaaaatgatg	X80339	109890	agatgctaactttgtggaagccatg	W11665
24683	atctcatcaccagacagagatatgg	W70782	67287	attctgtttctgaaaggtgagttgt	X80339	109891	agccatggcagacgcaggcatcctc	W11665
24684	tcatcaccagacagagatatggcaa	W70782	67288	ttgtgtattgctgtcaccgggccta	X80339	109892	catcctccgtctgtacacatgggta	W11665

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24685	gcaagagatccagccctgagacact	W70782	67289	tgtattgctgtcaccgggcctattt	X80339	109893	gtacacatgggtagagtgggtcaaa	W11665
24686	agagatccagccctgagacactgat	W70782	67290	ttttgaagtctgtcacccgaaacag	X80339	109894	cagcagcctcagaagtggacctgcc	W11665
24687	ccagccctgagacactgatttcaga	W70782	67291	tttaccactgtttcttctccacagc	X80339	109895	cctcagaagtggacctgccgactca	W11665
24688	gccctgagacactgatttcagacct	W70782	67292	actgtttcttctccacagccttcat	X80339	109896	agcaaatggacacctgctgctcaac	W11665
24689	ctctgctcgtgtgtttgggcattct	W70782	67293	tcttctccacagccttcatatgtta	X80339	109897	aagtggacctgccgactcattcaat	W11665
24690	agacactgatttcagacctcttaat	W70782	67294	ctgtgacagcaaacctaatttatct	X80339	109898	tggacacctgctgctcaactcggag	W11665
24691	tcgtgtgtttgggcattctggctga	W70782	67295	cttcaccatgtacaccacctgtatt	AA065350	109899	cctgctgctcaactcggagaagatg	W11665
24692	acgcgccacgagaggacatggccag	W70782	67296	caccatgtacaccacctgtattatc	AA065350	109900	atctacgggcaacttcctcactttg	W11665
24693	acatggccagatactactccgctct	W70782	67297	catcttctttggcaccgccagtcag	AA065350	109901	gggcaacttcctcactttgagccaa	W11665
24694	tggccagatactactccgctctgcg	W70782	67298	cttctttggcaccgccagtcagctg	AA065350	109902	cttcctcactttgagccaagctgtt	W11665
24695	gatactactccgctctgcgacacta	W70782	67299	caccgccagtcagctgagaagatct	AA065350	109903	cactttgagccaagctgttgacaaa	W11665
24696	actccgctctgcgacactacatcaa	W70782	67300	aagatctacatccaaacgaccacac	AA065350	109904	attttcagctgacggaatgcgcctg	W11665
24697	ctctgcgacactacatcaatctcat	W70782	67301	atctacatccaaacgaccacactga	AA065350	109905	accagagacgggaactctggtcatc	W11666
24698	ggatgacctggaactcctgatcctt	Y07915	67302	caaacgaccacactgactgtgtccc	AA065350	109906	cgggaactctggtcatcctgtgccg	W11666
24699	tccatctccgtttcccggatgctgc	Y07915	67303	acgaccacactgactgtgtccctga	AA065350	109907	gtgccgacactgtagagagtcttgc	W11666
24700	ctgtcttgctggcaagtgctttacc	Y07915	67304	accacactgactgtgtccctgagcc	AA065350	109908	cacttctactgcacacacatagagc	W11666
24701	caagtgctttacctgcggagccatc	Y07915	67305	acactgactgtgtccctgagcctga	AA065350	109909	acttctactgcacacacatagagca	W11666
24702	ctttacctgcggagccatcttgctg	Y07915	67306	ctgagcctgagcgcgtcggtgtccc	AA065350	109910	cttctactgcacacacatagagcag	W11666
24703	tactaagtgctaagccctacagtgg	Y07915	67307	catgtacaccacctgtattatctgg	AA065350	109911	ttctactgcacacacatagagcaga	W11666
24704	gtgctaagccctacagtggcctggg	Y07915	67308	gtacaccacctgtattatctggctg	AA065350	109912	tctactgcacacacatagagcagaa	W11666
24705	tctgctcatcactcttactggggaa	Y07915	67309	caccacctgtattatctggctggct	AA065350	109913	ctactgcacacacatagagcagaag	W11666
24706	catcactcttactggggaagcttct	Y07915	67310	cacctgtattatctggctggctttc	AA065350	109914	tactgcacacacatagagcagaagt	W11666
24707	agcttctactctgcagccctgcaag	Y07915	67311	ctgtattatctggctggctttcgtc	AA065350	109915	actgcacacacatagagcagaagtg	W11666
24708	tactctgcagccctgcaagccatgc	Y07915	67312	tattatctggctggctttcgtcccc	AA065350	109916	ctgcacacacatagagcagaagtgc	W11666
24709	gcagccctgcaagccatgcattcca	Y07915	67313	tatctggctggctttcgtccccatc	AA065350	109917	aactctggtcatcctgtgccgacac	W11666
24710	atgctgctggggttacaggagtgca	Y07915	67314	gctggctttcgtccccatcttcttt	AA065350	109918	actctggtcatcctgtgccgacact	W11666
24711	cagccctgcaagccatgcattccaa	Y07915	67315	ttctcacattgtatccccagtcttt	D83147	109919	catcctgtgccgacactgtagagag	W11666
24712	gagtgcaccgacacgcatgcaggca	Y07915	67316	agtctttcttccttctggtgtcatc	D83147	109920	atcctgtgccgacactgtagagagt	W11666
24713	acgcatgcaggcatgcacaggtccc	Y07915	67317	tgccagcttctgactaacaaatgag	D83147	109921	tcctgtgccgacactgtagagagtc	W11666
24714	catgtgcacacctgtattgtgtgta	Y07915	67318	aaggctgcaccccagaagcacctga	D83147	109922	cctgtgccgacactgtagagagtct	W11666
24715	atctctgtgtgtcacagtgctcatg	Y07915	67319	gcaccccagaagcacctgaattctc	D83147	109923	ctgtgccgacactgtagagagtctt	W11666
24716	cacagtgctcatgtggaggttcaag	Y07915	67320	cagaagcacctgaattctcatttct	D83147	109924	tgtgccgacactgtagagagtcttg	W11666
24717	ccttgtggatcccagtgagagaaat	Y07915	67321	cacctgaattctcatttctctctct	D83147	109925	cttgtttcggaaggagctgactggc	AA066275
24718	ttctatctgtcttgctggcaagtgc	Y07915	67322	gccgcagacttgcctgttccatttt	D83147	109926	tttcggaaggagctgactggccaat	AA066275
24719	ggaccctgacaagaggctgggagta	M69042	67323	cctgttccattttacgccctcatgt	D83147	109927	gtgcatactctttcggaccaggtcc	AA066275
24720	caagactatcaactggtccctcctg	M69042	67324	ccatttacgccctcatgtgaatgt	D83147	109928	catactctttcggaccaggtccagg	AA066275
24721	cttccatggcttctcctttgtgaat	M69042	67325	tacgccctcatgtgaatgttcgtcg	D83147	109929	agctccaaagtcaccaaggaactga	AA066275
24722	ctcctttgtgaatcccaagtttgag	M69042	67326	tgaatgttcgtcgggagatatttct	D83147	109930	ctccaaagtcaccaaggaactgacg	AA066275
24723	tgccctggtttgctccgcattgccc	M69042	67327	ttctggtgtcatctatttgagttcc	D83147	109931	agtcaccaaggaactgacggcactt	AA066275
24724	ggtttgctccgcattgcccgtggag	M69042	67328	caactttctaagagtccgacgtgat	D83147	109932	gtcaccaaggaactgacggcacttg	AA066275
24725	ctccgcattgcccgtggagaacagt	M69042	67329	tctaagagtccgacgtgatgtgaac	D83147	109933	caaggaactgacggcacttgttgga	AA066275
24726	ctcacagtacttcctctgtgaactg	M69042	67330	agtccgacgtgatgtgaacggaggt	D83147	109934	actgacggcacttgttggagggcac	AA066275
24727	gtacttcctctgtgaactgtttgtg	M69042	67331	tagacattctgggtcttcggtcctc	D83147	109935	ctgacggcacttgttggagggcacc	AA066275
24728	gaatttgccttccctttgccatcag	M69042	67332	gtcttcggtcctcaaagacatctcc	D83147	109936	acggcacttgttggagggcacctat	AA066275
24729	gccttccctttgccatcagagggaa	M69042	67333	cctcctctcagtgtgagcctaaggt	D83147	109937	agatcagctcgagttgcagtgcaaa	AA066275
24730	aaatcctgtgtttcattacttgaat	M69042	67334	ctcagtgtgagcctaaggtgccagc	D83147	109938	atcagctcgagttgcagtgcaaacg	AA066275
24731	agtgaaatcccccttcagactacagc	M69042	67335	atggctcggagaccagcgacttcac	Z22866	109939	agctcgagttgcagtgcaaacggac	AA066275
24732	ttcagactacagcaactttgaccca	M69042	67336	cggagaccagcgacttcaccgttag	Z22866	109940	tgaaaccggtgtctgggattacctg	AA066275
24733	ctacagcaactttgacccagagttc	M69042	67337	cattttgtgctggcttaggaggaag	Z22866	109941	tacctgcactgggtgcatactcttt	AA066275
24734	tgagaaacctcagctttccttcagt	M69042	67338	cttattcctatagatgaggaggcac	Z22866	109942	cctgcactgggtgcatactctttcg	AA066275
24735	gctttccttcagtgacaagaacctc	M69042	67339	agcatggaagccggtgacgctttac	Z22866	109943	ctgcactgggtgcatactctttcgg	AA066275
24736	gaacctcatcgactctatggaccag	M69042	67340	ggtgacgctttacctgtaagctctt	Z22866	109944	ggtgcatactctttcggaccaggtc	AA066275
24737	ctctatggaccaggaagccttccat	M69042	67341	ttgtgtccatacctcatgttctatc	Z22866	109945	aagttcttcagccaagcacagtggt	M87321
24738	ggaagccttccatggcttctccttt	M69042	67342	ctcatgttctatcaaaatagaggca	Z22866	109946	ttcttcagccaagcacagtggtgca	M87321
24739	tctatcattccaatacccaaatccaa	U70662	67343	gtatggtgggtccctgttagtagag	Z22866	109947	cccaaacacctgagtctcttttctg	M87321
24740	aatccaacttgaacatgcccggact	U70662	67344	gcatttctgatagcagccttgtgaa	Z22866	109948	cgaaggctttctccaagctatatac	M87321
24741	ttctccaactgctgcatacttttga	U70662	67345	ctgatagcagccttgtgaactggcc	Z22866	109949	aggctttctccaagctatatacaat	M87321
24742	aactgctgcatacttttgacaagga	U70662	67346	gaataaagtctcctgcctttcctct	Z22866	109950	ctttctccaagctatatacaattat	M87321
24743	tagttttgtcttccgatctacattg	U70662	67347	ccagcgacttcaccgttagtgtgtt	Z22866	109951	tatatacaattattcaactgttgtg	M87321
24744	tgtcttccgatctacattgatgacc	U70662	67348	gtgtgttcatcccagaggaggagtt	Z22866	109952	ttattcaactgttgtggaggaaaga	M87321
24745	ccgatctacattgatgacctaagcc	U70662	67349	tcatcccagaggaggagttgaggaa	Z22866	109953	aatccaggtcgcaactgagacgaaa	M87321
24746	tacattgatgacctaagccaggtaa	U70662	67350	ccatcatgctgctgtcgtgaaaagg	Z22866	109954	aggcggttccagctggcgtgcagat	M87321
24747	gatgacctaagccaggtaaataagc	U70662	67351	tgctgctgtcgtgaaaaggattggg	Z22866	109955	cggttccagctggcgtgcagataga	M87321
24748	ctgttatgcactgtggtttcagatg	U70662	67352	acgatgaaatcctccaggaggctcc	Z22866	109956	ttccagctggcgtgcagatagaaaa	M87321
24749	tgcactgtggtttcagatgtgcaat	U70662	67353	aaatcctccaggaggctccattttg	Z22866	109957	ttcagccaagcacagtggtgcacac	M87321
24750	attcccaagtatgcctttaagcaga	U70662	67354	tccaggaggctccattttgtgctgg	Z22866	109958	acactattaacgtcagctctcagga	M87321
24751	acatgcccggacttacaaaatgcca	U70662	67355	tgatgccagtgctggatcagtctgt	Z29652	109959	acgtcagctctcaggaggctacaac	M87321
24752	gaccaggattcccttgaattgtgtt	U70662	67356	agtctgttctctgccacatcaatgc	Z29652	109960	gactactaaaagctcatgtccaacc	M87321

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24753	gattcccttgaattgtgtttcgatg	U70662	67357	agagacttacaccagagttgtttga	Z29652	109961	agtaccaggccaacaaagactgaat	M87321
24754	gatgcaatacacacgtaaagatcac	U70662	67358	tgtttgacagccaacctgacctcct	Z29652	109962	gaatggcaagaccctcacagcaaac	M87321
24755	agatcaccttgtatgctctttgcct	U70662	67359	tgcaccaacttgtcactctgatgaa	Z29652	109963	tggcaagaccctcacagcaaaccca	M87321
24756	ccttgtatgctctttgccttcttaa	U70662	67360	aacttgtcactctgatgaatcctaa	Z29652	109964	cacagcaaacccaaacacctgagtc	M87321
24757	cattattgtgtcggaggaagaggaa	U70662	67361	tcactctgatgaatcctaacactct	Z29652	109965	ccagaaatttgccagcagtgggacc	W11621
24758	ccaaagttctccaactgctgcatac	U70662	67362	tgatgaatcctaacactctcatgtc	Z29652	109966	gaaatttgccagcagtgggaccctg	W11621
24759	ccactggctcctctgcaaaggcaga	U28217	67363	tctgactattgacagaccatcacat	Z29652	109967	gcacattcgtactcacaccagggag	W11621
24760	agtgcattttgctaccaggatgtgg	U28217	67364	atcacatatgtagttctcttacagt	Z29652	109968	cattcgtactcacaccagggagaag	W11621
24761	catctttctgtgtcactatgggaaa	U28217	67365	tatgtagttctcttacagtgcttct	Z29652	109969	tcgtactcacaccagggagaagccc	W11621
24762	agtgtctccctacatgttgctctgt	U28217	67366	gttctcttacagtgcttctagcaaa	Z29652	109970	gccctaccagtgctcagagtgcagc	W11621
24763	tgttgagagcccatgaacagggcat	U28217	67367	ttctctgccacatcaatgcagacat	Z29652	109971	ctaccagtgctcagagtgcagcaag	W11621
24764	gagcccatgaacagggcatgcatga	U28217	67368	tacagtgcttctagcaaagttatag	Z29652	109972	gtgctcagagtgcagcaaggccttc	W11621
24765	agggcatgcatgactctttggcaac	U28217	67369	gccacatcaatgcagacatctcagg	Z29652	109973	cagcaaggccttcagccagaagcgg	W11621
24766	tgcatgactctttggcaacatgtgt	U28217	67370	aagtgccctggttatatgtgggcat	Z29652	109974	cagccagaagcggggcctcgatgaa	W11621
24767	actctttggcaacatgtgttatctt	U28217	67371	tttcagcattttgttggcatattga	Z29652	109975	aaagccttttcagtgtgacgtatgt	W11621
24768	ttatcttggagccacgtgtttttat	U28217	67372	cattttgttggcatattgaggatca	Z29652	109976	gccttttcagtgtgacgtatgtgac	W11621
24769	tattccacggcaaacggagacattt	U28217	67373	gttattccattaactacctgcactg	Z29652	109977	cctgagagttcacatccggagccac	W11621
24770	ttaatccgctcgtggtcattgaata	U28217	67374	gagtaccttcgctagcagcagaaca	Z29652	109978	tgacttggcttttagcatgaagaaa	W11621
24771	ttttgctaccaggatgtggatggca	U28217	67375	cttcgctagcagcagaacacttaga	Z29652	109979	tcacatccggagccacacaggtgag	W11621
24772	gagatcccagctaagacagttcctg	U28217	67376	ttgaccgacacttgtttgctctacg	U01163	109980	ccacacaggtgagcgcccctatcaa	W11621
24773	ccagctaagacagttcctgggcaaa	U28217	67377	gacacttgtttgctctacggtatct	U01163	109981	cacaggtgagcgcccctatcaatgc	W11621
24774	aagacagttcctgggcaaagatgag	U28217	67378	atggctttggcattgcgtatgctgt	U01163	109982	aggtgagcgcccctatcaatgcccg	W11621
24775	gtatctccagtctatgtggcactgg	U28217	67379	ttggcattgcgtatgctgttcacga	U01163	109983	gcgcccctatcaatgcccgtactgt	W11621
24776	gggaaccccaaagatctgagccctg	U28217	67380	atgctgttcacgatgactggatagg	U01163	109984	cccctatcaatgcccgtactgtgaa	W11621
24777	gtggacagctccagacctgtgagac	U28217	67381	gctgcaatgtctcctcctactcagg	U01163	109985	ctatcaatgcccgtactgtgaaaaa	W11621
24778	agctccagacctgtgagacatcttt	U28217	67382	gacgcaatgcccgagagtttctcca	U01163	109986	tcacctgggctacatcctcacatgc	M74149
24779	ctcgacaaaccaaagaaactctctg	W71773	67383	gagagtttctccactgtgtccagaa	U01163	109987	gcaccggactgcgggcaggtgtaca	M74149
24780	ccaaagaaactctctgcagagtgcg	W71773	67384	actgtgtccagaagtgcttggaaga	U01163	109988	caacggctcgagcagggtcaggcaa	M74149
24781	agtatccgtccacgttcttgccagg	W71773	67385	tcgatgccctcgaaggcaaagccat	U01163	109989	acggctcgagcagggtcaggcaatc	M74149
24782	cgtccacgttcttgccagggaaatg	W71773	67386	tggtgcttgagcagccagtgctgca	U01163	109990	ggctcgagcagggtcaggcaatcga	M74149
24783	ccacgttcttgccagggaaatggat	W71773	67387	ttgagcagccagtgctgcaggtgtg	U01163	109991	caatcgatgacctcatgccggccca	M74149
24784	cgttcttgccagggaaatggattct	W71773	67388	ctctacggtatctggcagcagccag	U01163	109992	cgctgagcccttagcctcgctgtag	M74149
24785	aatggattcttgtcctgtggttgga	W71773	67389	tggcagcagccagaggggtcaccct	U01163	109993	ctgagcccttagcctcgctgtagag	M74149
24786	tggattcttgtcctgtggttggaga	W71773	67390	atcaggaccctgcataccagcggat	U01163	109994	gagcccttagcctcgctgtagagac	M74149
24787	ggattcttgtcctgtggttggagag	W71773	67391	cataccagcggataaaccacaacat	U01163	109995	ttttttgatggctaagctgttgctg	M74149
24788	gattcttgtcctgtggttggagagt	W71773	67392	agcggataaaccacaacatcctgtc	U01163	109996	gatggctaagctgttgctgacactg	M74149
24789	attcttgtcctgtggttggagagtt	W71773	67393	taaaccacaacatcctgtccaccag	U01163	109997	taagctgttgctgacactgaaaata	M74149
24790	tgatataaaccttccgaagcgcca	W71773	67394	gcactctgagcagcccagcagtgag	U01163	109998	accggactgcgggcaggtgtacaca	M74149
24791	aaactctctgcagagtgcgcgaagt	W71773	67395	ttgcccctgtggtccctgatggctt	U01163	109999	agaagttctcggaggtgctcaagcg	M74149
24792	ctctctgcagagtgcgcgaagtact	W71773	67396	cctcctaaagatactggcattgctc	X62648	110000	gttctcggaggtgctcaagcggctg	M74149
24793	gatcatctcccagcagtacaattat	W71773	67397	gatactggcattgctcgtgtgcctc	X62648	110001	tctcggaggtgctcaagcggctgcg	M74149
24794	tttaaagacactcagcaaggacgat	W71773	67398	gctgctactgctagcattgcaggag	X62648	110002	gtgctcaagcggctgcggcttcaga	M74149
24795	gacactcagcaaggacgatatcatc	W71773	67399	actgctagcattgcaggagccccaa	X62648	110003	gctcaagcggctgcggcttcagaag	M74149
24796	cgatatcatcaaattctacaaggaa	W71773	67400	ggtatgagaccacccatgggcccac	X62648	110004	ctgcggcttcagaagcgaggcacag	M74149
24797	tatcatcaaattctacaaggaaatg	W71773	67401	gctcgtgggacacctataggcatgc	X62648	110005	tctccaacgctgaccgcctgggctt	M74149
24798	aatgttggctgtggacgcaccaagg	W71773	67402	gttgataaatctcagcccttctctt	X62648	110006	ccttctacctagatgttctacctgt	L04275
24799	gcttgagtttctccagcacctggag	U29539	67403	acaatgcttcttgtgaaattgtgta	X62648	110007	tagatgttctacctgttgagtagag	L04275
24800	agccactggtctgatgggaagctgt	U29539	67404	aagcttttgacccctcttactgcat	X62648	110008	tcattcactaattcatttaacataa	L04275
24801	acacatcccagcggccaggttgctt	U29539	67405	ttgaccccctcttactgcattaacta	X62648	110009	ttcactaattcatttaacataaatt	L04275
24802	catcccagcggccaggttgcttcag	U29539	67406	cctcttactgcattaactatagata	X62648	110010	aattcattcattgtgtaccaattgg	L04275
24803	tggctgtctgtcactatggctgccc	U29539	67407	cttactgcattaactatagataata	X62648	110011	agactaattacctctaggagataca	L04275
24804	agttggccagagtcatgtgttctat	U29539	67408	gctcgtgtgcctcttgctggcgctg	X62648	110012	ctaattacctctaggagatacaaat	L04275
24805	tgtgttctatggtggcagcaaggag	U29539	67409	cctcttgctggcgctgcaggtggcc	X62648	110013	attacctctaggagatacaaataca	L04275
24806	ctggcttttctatcgctaggggttg	U29539	67410	ccccaagctcctgctggattagcag	X62648	110014	tataaacaaaccagagaacactgtc	L04275
24807	gcttttctatcgctaggggttgcta	U29539	67411	cctgtccgaggagttggaggcccat	X62648	110015	caaaccagagaacactgtcccagga	L04275
24808	tttctatcgctaggggttgctaggg	U29539	67412	tcccagcaggtcatgaccccacagg	X62648	110016	gaacactgtcccaggaaaagaatag	L04275
24809	tagggatctacaccctgcctgtggt	U29539	67413	caggtcatgaccccacagggaagag	X62648	110017	ttcttattcccaaaattgaagtgtg	L04275
24810	gctgaaaagttcccactgtacctgt	U29539	67414	gctgctgttgctgctactgctagca	X62648	110018	atgttctacctgttgagtagaggga	L04275
24811	tccttatcttcagtcaagtgttccc	U29539	67415	gctgttgctgctactgctagcattg	X62648	110019	ttctacctgttgagtagagggatgt	L04275
24812	ttatcttcagtcaagtgttccctag	U29539	67416	gaaactgattgcacctggaaatcac	Z11574	110020	atgttcctgccttcttcagaccttc	L04275
24813	tccctagggacacacagtggtgagg	U29539	67417	gattgcacctggaaatcacgtgaag	Z11574	110021	ttcctgccttcttcagaccttctgc	L04275
24814	gtccctgcaagagtccctttagcct	U29539	67418	acaagcccatatgttgacagttttt	Z11574	110022	ccttcttcagaccttctgctgttcc	L04275
24815	cctgcaagagtccctttagcctggc	U29539	67419	gctttactcttctactttagaatat	Z11574	110023	tcacctaactgtgcagaatcctatt	L04275
24816	gcaagagtccctttagcctggcaga	U29539	67420	ttattcagaggactgtgagaaaagg	Z11574	110024	cctaactgtgcagaatcctattaaa	L04275
24817	ttagcctggcagatttagggtctgg	U29539	67421	gctgtggtacctgaccttgttgaaa	Z11574	110025	ttttcctcaaatacaaatagagatt	L04275
24818	gtgatcacacatcccagcggccagg	U29539	67422	gtggtacctgaccttgttgaaatca	Z11574	110026	tgggctcttggcctgagatttccgc	J00376
24819	tcctgagaccatgtccactgtgcac	L38580	67423	gtacctgaccttgttgaaatcaagg	Z11574	110027	ctgagatttccgcgggttcagggtg	J00376
24820	catgtccactgtgcacgtgtgtcct	L38580	67424	atcaaggcccagcactgtactacag	Z11574	110028	tccgacagccagcttctctcatatc	J00376

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24821	ctcctcaagccaatcgtctgttctc	L38580	67425	aaggcccagcactgtactacagtcc	Z11574	110029	agccagcttctctcatatcctcttc	J00376
24822	ctcaagccaatcgtctgttctctgc	L38580	67426	gcccagcactgtactacagtcctgt	Z11574	110030	tcatatcctcttcctgtgactttct	J00376
24823	ccaatcgtctgttctctgctttgaa	L38580	67427	acagtcctgtttacagattattaca	Z11574	110031	cctgtgactttctctactctgtagt	J00376
24824	atcgtctgttctctgctttgaagct	L38580	67428	gggacttttctggccattgggcaga	Z11574	110032	actttctctactctgtagtattgct	J00376
24825	gtctgttctctgctttgaagctgtg	L38580	67429	tttctggccattgggcagagtcctc	Z11574	110033	ctgtagtattgctcctaaggaccttt	J00376
24826	tctctgctttgaagctgtgttatga	L38580	67430	cagagtcctcatattgtgaagtgat	Z11574	110034	tattgctcctaaggaccttggtcat	J00376
24827	ttcttgcaccttaaagatgccattg	L38580	67431	agtcctcatattgtgaagtgatctt	Z11574	110035	tcctaaggaccttggtcatccatga	J00376
24828	ttgcaccttaaagatgccattgaca	L38580	67432	tgatctttatcattaaagggatgga	Z11574	110036	agaatggagcccctggcagacaata	J00376
24829	caccttaaagatgccattgacaacc	L38580	67433	acagtctaatgtccaacaagcccat	Z11574	110037	gagcccctggcagacaataaagagc	J00376
24830	agaccagatggccagaggcagcgtt	L38580	67434	gtctaatgtccaacaagcccatatg	Z11574	110038	ggctcaacaccagctggtcggaggg	J00376
24831	gtccactgtgcacgtgtgtcctgtg	L38580	67435	ccaacaagcccatatgttgacagtt	Z11574	110039	tgtcttcctggaaagtggcatctaa	J00376
24832	tgtgcacgtgtgtcctgtgctgtaa	L38580	67436	tgatttgcctattatttgggaagac	Z11664	110040	catctaaggactgctccagagggca	J00376
24833	gcacgtgtgtcctgtgctgtaattt	L38580	67437	taatgctaataacctctataaatgt	Z11664	110041	ggctcaccaactccaagagccctat	J00376
24834	taaagtcattctaggctaagaagaa	L38580	67438	gatactatcattcaaagtgatcaag	Z11664	110042	ccaactccaagagccctatgctaga	J00376
24835	agaatcttctgccaactcctcaagc	L38580	67439	ccacgttgtttatctactggtctgt	Z11664	110043	tgctagagcccctgatggcagcctc	J00376
24836	atcttctgccaactcctcaagccaa	L38580	67440	tgtttatctactggtctgtggcctt	Z11664	110044	ttttgcccatacttactgcactgca	J00376
24837	ttctgccaactcctcaagccaatcg	L38580	67441	ttatctactggtctgtggcctttta	Z11664	110045	ttactgcactgcagccgccgtgtgc	J00376
24838	caactcctcaagccaatcgtctgtt	L38580	67442	tctactggtctgtggcctttactg	Z11664	110046	ttcggcacaggcccgactctacgtg	W11746
24839	catctcaggcccgattttctgttca	L33406	67443	ggtctgtggcctttactgtgcttt	Z11664	110047	tcggcacaggcccgactctacgtga	W11746
24840	aggcccgattttctgttcagatgtt	L33406	67444	ctgtggcctttactgtgctttgta	Z11664	110048	ttaccaccttcttctgtgaaaactg	W11746
24841	ctttgatcttcatggttcaatgatg	L33406	67445	tggcctttactgtgctttgtatca	Z11664	110049	ccttcttctgtgaaaactgagcctg	W11746
24842	tcttcatggttcaatgatggaaagc	L33406	67446	tttactgtgctttgtatcagagttc	Z11664	110050	aactgagcctggaaaacatgtggtt	W11746
24843	acaagttggcatctttcagtgctgt	L33406	67447	actgtgctttgtatcagagttctta	Z11664	110051	tttgaacttgaagccaactgtaact	W11746
24844	tggcatctttcagtgctgttcttcc	L33406	67448	taataacctctataaatgtaagtga	Z11664	110052	tgaacttgaagccaactgtaactca	W11746
24845	ctttcagtgctgttcttccttcaaa	L33406	67449	taatacaatctgctatttgactaat	Z11664	110053	acttgaagccaactgtaactcatgg	W11746
24846	gtgctgttcttccttcaaatgtgat	L33406	67450	tacaatctgctatttgactaatttg	Z11664	110054	cttgaagccaactgtaactcatgga	W11746
24847	ttcttccttcaaatgtgatatgtat	L33406	67451	gcataagaaccaactgccattgtca	Z11664	110055	tgaagccaactgtaactcatggagt	W11746
24848	tatgtatgaagcccctgtctcctga	L33406	67452	gaaccaactgccattgtcaaaccta	Z11664	110056	gaagccaactgtaactcatggagtt	W11746
24849	tgaagcccctgtctcctgaaggaat	L33406	67453	actgccattgtcaaacctattaact	Z11664	110057	gccaactgtaactcatggagttccg	W11746
24850	ccctgtctcctgaaggaatgtggca	L33406	67454	tgtctttaatctcgtgttaactgaa	Z11664	110058	ggcacaggcccgactctacgtgaga	W11746
24851	tgggtcccataacacgacaacgaca	L33406	67455	ctttgccatttggatactatcattc	Z11664	110059	gcacaggcccgactctacgtgagac	W11746
24852	ccataacacgacaacgacaaggtgt	L33406	67456	cactcgagcgtgtccagcagcccgg	X65657	110060	caggcccgactctacgtgagacgta	W11746
24853	tccaggcctcagtgtccgcttccag	L33406	67457	agcgtgtccagcagcccggagcccg	X65657	110061	ggcccgactctacgtgagacgtaca	W11746
24854	cctcagtgtccgcttccagcaactt	L33406	67458	cccagtggccaagcacattaactct	X65657	110062	gcccgactctacgtgagacgtacag	W11746
24855	tgtccgcttccagcaacttgaggct	L33406	67459	ggccaagcacattaactctctcata	X65657	110063	actctacgtgagacgtacagcccaa	W11746
24856	cttccagcaacttgaggctcctgag	L33406	67460	gcacattaactctctcatacactga	X65657	110064	ctctacgtgagacgtacagcccaaa	W11746
24857	ttctctcagccactttgatcttcat	L33406	67461	taactctctcatacactgactgtta	X65657	110065	gactctttaccacttcttctgtga	W11746
24858	cagccactttgatcttcatggttca	L33406	67462	ctgacaaatagacctcagcctcaaa	X65657	110066	aaccatgatgctgccatttttcccag	AA079976
24859	tgcataggtcctgactggccaccac	AA162209	67463	aatagacctcagcctcaaaaggctc	X65657	110067	gccattttcccaggaggctttggag	AA079976
24860	ggtcctgactggccaccactgtgca	AA162209	67464	cctcagcctcaaaaggctcggaaag	X65657	110068	gtcctcgcagccaaagtgatcaaag	AA079976
24861	atgaccacatctgggacattgtagg	AA162209	67465	ttaaacagtgccagtaactcagctg	X65657	110069	ctcgcagccaaagtgatcaaaggtg	AA079976
24862	aggtgactctccattgtggctctca	AA162209	67466	agtgccagtaactcagctgctacac	X65657	110070	gaggtcaccgtaggccatgagcaag	AA079976
24863	tgactctccattgtggctctcatgg	AA162209	67467	tcagctgctacaccccagcactgaa	X65657	110071	ggcaagtggccttatgctggaactg	AA079976
24864	tccattgtggctctcatggcattct	AA162209	67468	gagcccgggatgcccgtgatccaga	X65657	110072	ccttatgctggaactgcggaaccat	AA079976
24865	attgtggctctcatggcattcttga	AA162209	67469	gggatgcccgtgatccagagcactt	X65657	110073	actgcggaaccatcaaagccctggg	AA079976
24866	gtggctctcatggcattcttgagca	AA162209	67470	cccgtgatccagagcacttacggcg	X65657	110074	ccatcaaagccctgggtgccaagca	AA079976
24867	ctcatggcattcttgagcagctcag	AA162209	67471	gagccccacatcaaggaagagatcc	X65657	110075	aagccctgggtgccaagcactgtgt	AA079976
24868	atggcattcttgagcagctcaggca	AA162209	67472	cacattgcgggacaagccaactgat	X65657	110076	ccctgggtgccaagcactgtgtgaa	AA079976
24869	gcattcttgagcagctcaggcagga	AA162209	67473	taagggccaacagactgtggtgagc	X65657	110077	gtgccaagcactgtgtgaagggtgt	AA079976
24870	ttgagcagctcaggcaggatatagt	AA162209	67474	cggttcatccttcccagtggccaag	X65657	110078	attttcccaggaggctttggagctg	AA079976
24871	ccactgtgcatatccaggtggccga	AA162209	67475	atccttcccagtggccaagcacatt	X65657	110079	ccaagcactgtgtgaagggtgtgac	AA079976
24872	ctgtgcatatccaggtggccgaaga	AA162209	67476	ttctctctctgattcagggcagaaa	AA065993	110080	gctgccaaaaacctgagcacattcg	AA079976
24873	gcctcagctgtggtgaagtggtagt	AA162209	67477	ctctctctgattcagggcagaaaca	AA065993	110081	gccaaaaacctgagcacattcgccg	AA079976
24874	tccatgacccgatccaggtccttat	AA162209	67478	atctagtgcacagatctaggatgat	AA065993	110082	aacctgagcacattcgccgtggacg	AA079976
24875	atgacccgatccaggtccttatgag	AA162209	67479	catctataaaatcagccccaagcag	AA065993	110083	ttccacggggccaagaagcccattg	AA079976
24876	tcattattggcgatggtgatgacca	AA162209	67480	ctataaaatcagccccaagcaggca	AA065993	110084	gccaagaagcccattggcttatgct	AA079976
24877	atggtgatgaccacatctgggacat	AA162209	67481	tataaaatcagccccaagcaggcaa	AA065993	110085	aagcccattggcttatgctgcatcg	AA079976
24878	gtgatgaccacatctgggacattgt	AA162209	67482	aatcagccccaagcaggcaagtggg	AA065993	110086	cccattggcttatgctgcatcgctc	AA079976
24879	tcagatgcccatcaccacaggaaca	U32614	67483	atcagccccaagcaggcaagtggga	AA065993	110087	tgattgaggtccacggcaagcacga	M73741
24880	caccacaggaacaggtgttgtgtat	U32614	67484	cagccccaagcaggcaagtgggaca	AA065993	110088	ttgaggtccacggcaagcacgaaga	M73741
24881	tgatcccaaatcagactatagcagc	U32614	67485	agccccaagcaggcaagtgggacag	AA065993	110089	aacaggtgtctggccctgagcgcac	M73741
24882	tgaggccccagagcctgtcagtgcc	U32614	67486	ccccaagcaggcaagtgggacagtg	AA065993	110090	ccatcacccgtgaagagaagcctgc	M73741
24883	cccagagcctgtcagtgccaactga	U32614	67487	ggtaatggccgcagagggcgatccc	AA065993	110091	tcgccgcagcccctaagaagtagat	M73741
24884	aattaaaacactctgacatttcgct	U32614	67488	tctctctgattcagggcagaaacag	AA065993	110092	agaagtagatcccctttcctcattg	M73741
24885	aacactctgacatttcgctcccttt	U32614	67489	tctctgattcagggcagaaacagcg	AA065993	110093	ggaagtttcccatcagtgattgaaa	M73741
24886	gagcccgcatgcatttgtggctcca	U32614	67490	tccagcaaaccctcctgaatctagt	AA065993	110094	agtttcccatcagtgattgaaaatc	M73741
24887	gcatgcatttgtggctccacaatac	U32614	67491	caaaccctcctgaatctagtgcaca	AA065993	110095	ttcccatcagtgattgaaaatctgt	M73741
24888	atttgtggctccacaatacatcagc	U32614	67492	aaaccctcctgaatctagtgcacag	AA065993	110096	aatctgtgactagtgctgaagctta	M73741

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24889	ggctccacaatacatcagcagaatg	U32614	67493	accctcctgaatctagtgcacagat	AA065993	110097	aagggctggcccagattattaagct	M73741
24890	aattgcttcgtaacgtgtgagacag	U32614	67494	ccctcctgaatctagtgcacagatc	AA065993	110098	ggctggcccagattattaagctaat	M73741
24891	tgtgtatcctggtgctattactatg	U32614	67495	ctcctgaatctagtgcacagatcta	AA065993	110099	tccacggcaagcacgaagaacgcca	M73741
24892	tgctattactatggcaacgaccaca	U32614	67496	cctaagcgtttcatgaggagtgatc	X60136	110100	aacatggcttcatctccagggagtt	M73741
24893	tactatggcaacgaccacaccatca	U32614	67497	cacctgtcaaagcatatcaagactc	X60136	110101	atggcttcatctccagggagttcca	M73741
24894	gatgacatctgactgctctagcacc	U32614	67498	aacagtggcatcaacgtcatgcagg	X60136	110102	gcttcatctccagggagttccacag	M73741
24895	atctgactgctctagcacctctgcc	U32614	67499	agtggcatcaacgtcatgcaggtga	X60136	110103	tcatctccagggagttccacaggaa	M73741
24896	catccagagcacgtatggtatgaag	U32614	67500	aacgtcatgcaggtgacagagctgc	X60136	110104	atgtggatcctctcaccatcacttc	M73741
24897	aagcctggctgggaacgacatgatt	U32614	67501	acagagctgcagtccattaatatca	X60136	110105	atggagtcctcactgtgaatggacc	M73741
24898	cgaagatgatcccaaatcagactat	U32614	67502	attaatatcagtggcaatggtttct	X60136	110106	tcctcactgtgaatggaccaaggaa	M73741
24899	ctggccctgccttgaggattaaaga	W71798	67503	ttctaagattagacacccagtgcca	X60136	110107	tgtggttgctccattcaaatgttct	W71125
24900	ggccctgccttgaggattaaagagt	W71798	67504	acacccagtgccagagacatatggg	X60136	110108	tccattcaaatgttctgtccttcca	W71125
24901	ctggtcacgtagcctcaagcctgca	W71798	67505	cccagtgccagagacatatgggcca	X60136	110109	tctgaccaggaacggcgtgtctcat	W71125
24902	tcacgtagcctcaagcctgcagact	W71798	67506	gacatatgggccaatacccactaag	X60136	110110	tggcgtggctttcggcatcactatt	W71125
24903	acgtagcctcaagcctgcagacttg	W71798	67507	cactaagcccgggatgcaaggtagc	X60136	110111	ggctttcggcatcactattgacttt	W71125
24904	gtagcctcaagcctgcagacttggg	W71798	67508	tcagaaggcactgccactccttcag	X60136	110112	cggcatcactattgactttgataca	W71125
24905	tcaagcctgcagacttgggtcctct	W71798	67509	gcccttattaccaccaatatggtag	X60136	110113	ccacactgcaactctgagggaccga	W71125
24906	aagcctgcagacttgggtcctctga	W71798	67510	gaggccatctgtccagagggtattg	X60136	110114	cactgcaactctgagggaccgagac	W71125
24907	gcctgcagacttgggtcctctgaaa	W71798	67511	gccatctgtccagagggtattgccc	X60136	110115	aactctgagggaccgagactccatg	W71125
24908	ctgcagacttgggtcctctgaaacc	W71798	67512	atctgtccagagggtattgcccgtc	X60136	110116	ccgagactccatgagacagataagg	W71125
24909	ttgggtcctctgaaaccggatggcg	W71798	67513	ggtattgcccgtcttgccaacagtg	X60136	110117	agaggtctctgagctgcccaatgtg	W71125
24910	tggcgtttggcgaggactagtgtta	W71798	67514	gcccgtcttgccaacagtggcatca	X60136	110118	ggtctctgagctgcccaatgtggtc	W71125
24911	ccctgccttgaggattaaagagtag	W71798	67515	cttgccaacagtggcatcaacgtca	X60136	110119	caaatgttctgtccttccactgagc	W71125
24912	tagaggtgcctggggacagctagcc	W71798	67516	tagcttctcgttcatacttctcaag	AA071792	110120	tgagctgcccaatgtggtccgcgat	W71125
24913	gacagctagccactgactggtcacg	W71798	67517	ctcgttcatacttctcaagtgtcct	AA071792	110121	ttctgtccttccactgagccagaac	W71125
24914	cagctagccactgactggtcacgta	W71798	67518	catcaacatgtccgatgaacactac	AA071792	110122	tgtccttccactgagccagaaccaa	W71125
24915	tagccactgactggtcacgtagcct	W71798	67519	caacatgtccgatgaacactacatt	AA071792	110123	ccttccactgagccagaaccaagag	W71125
24916	cactgactggtcacgtagcctcaag	W71798	67520	gtccgatgaacactacatttacatg	AA071792	110124	gtttatgccatttgtcaaggaatta	W71125
24917	ctgactggtcacgtagcctcaagcc	W71798	67521	tgaacactacatttacatgttcctt	AA071792	110125	ggaattatccgaagctctgaccagg	W71125
24918	gactggtcacgtagcctcaagcctg	W71798	67522	ctacatttacatgttccttcttggg	AA071792	110126	attatccgaagctctgaccaggaac	W71125
24919	gcatctacgtgggcaaccttccgtc	AA036574	67523	catttacatgttccttcttgggagc	AA071792	110127	agctctgaccaggaacggcgtgtct	W71125
24920	gacttgttctacaagtacggccgca	AA036574	67524	cacctggtggtgcaccgctgactta	AA071792	110128	agtagatacatccacttgattgctt	D10727
24921	ccgttcgccttcgtgcgcttcgagg	AA036574	67525	ctccatcatttcttgggtgctttcc	AA071792	110129	tacatccacttgattgcttctagat	D10727
24922	gccttcgtgcgcttcgaggacccgc	AA036574	67526	catcatttcttgggtgctttcctct	AA071792	110130	ctttctctacccatcagtcgtcgtc	D10727
24923	tcgtgcgcttcgaggacccgcgaga	AA036574	67527	ttcttgggtgctttcctctggtggc	AA071792	110131	atcagtcgtcgtctcgcaggaatag	D10727
24924	cccgcgagatgctgaggatgcgatc	AA036574	67528	catacttctcaagtgtccttttgtc	AA071792	110132	cgtcgtctcgcaggaatagtaaagg	D10727
24925	tacgattatggccagtgtcgactcc	AA036574	67529	tctcaagtgtcctttgtcgaccat	AA071792	110133	gcatgtacgctgttctaaaagaagt	D10727
24926	cgattatggccagtgtcgactccgt	AA036574	67530	ttttgtcgaccattccagtcaaata	AA071792	110134	tctcatttactgttgaacgtttgat	D10727
24927	attatggccagtgtcgactccgtgt	AA036574	67531	cgaccattccagtcaaatacattat	AA071792	110135	gtttgattacgcaactactttgatt	D10727
24928	tatggccagtgtcgactccgtgtgg	AA036574	67532	aatacattatttgtcctccaatggt	AA071792	110136	aactactttgattgtgtacgtgtgt	D10727
24929	gtcgactccgtgtggagttccccag	AA036574	67533	ctccaatggttgacttgcctgcatc	AA071792	110137	cgtgtgtacatcccttacagatctg	D10727
24930	gcctcctacaagacggtcagatttc	AA036574	67534	ttgacttgcctgcatcaacatgtcc	AA071792	110138	ccttacagatctgatcaaaaatcgc	D10727
24931	cttgttctacaagtacggccgcatc	AA036574	67535	acttgcctgcatcaacatgtccgat	AA071792	110139	gatcaaaaatcgcttttcattttgt	D10727
24932	ctcctacaagacggtcagatttccg	AA036574	67536	caattctttccgaggagatgtcgat	Z46299	110140	cacttgattgcttctagattcctat	D10727
24933	tgttctacaagtacggccgcatccg	AA036574	67537	gaaatcttcttgaagggctgacacg	Z46299	110141	attgcttctagattcctatgtctca	D10727
24934	ccgcatccgcgagatcgagctcaag	AA036574	67538	ccagctttgatccagcagaatgggg	Z46299	110142	ttcctatgtctcagctgtaagcaag	D10727
24935	gcatccgcgagatcgagctcaagaa	AA036574	67539	gcttctataacaaccacgcattcaa	Z46299	110143	tgtctcagctgtaagcaagcttgat	D10727
24936	tcgagctcaagaaccggcacgcctc	AA036574	67540	ataacaaccacgcattcaaggaaca	Z46299	110144	tctaaaccctgcagtttgcagctaa	D10727
24937	gctcaagaaccggcacgcctcgtgc	AA036574	67541	acaaccacgcattcaaggaacaaga	Z46299	110145	accccactgcagagccgtgtgaatg	D10727
24938	acgcctcgtgccgttcgccttcgtg	AA036574	67542	cagtcactcccttcgaggagtctac	Z46299	110146	tagaaacttcatctttagattaaag	D10727
24939	gcctcgtgccgttcgccttcgtgcg	AA036574	67543	tcactcccttcgaggagtctactga	Z46299	110147	tcaattctgtggctttctctaccca	D10727
24940	accctcggagacaccgcttctcaga	U29762	67544	ctcccttcgaggagtctactgagga	Z46299	110148	ttcagccgctgcaactccatccgtg	W42217
24941	ggagacaccgcttctcagaggagga	U29762	67545	ctgctctcaaaatccagtccctctt	Z46299	110149	tcagccgctgcaactccatccgtgt	W42217
24942	cccagcatgggacactgtgaggcac	U29762	67546	tcttccggggacacgtggctagaga	Z46299	110150	tgggtttcacgactccatcgctcct	W42217
24943	cagacttacacctgacttcctcctt	U29762	67547	tccggggacacgtggctagagaaga	Z46299	110151	gggtttcacgactccatcgctcctg	W42217
24944	cctccttgtcccatggccagtggtc	U29762	67548	atcttcttgaagggctgacacggga	Z46299	110152	atcgctcctgccgttccattccata	W42217
24945	atggccagtggtctggccagctagg	U29762	67549	ttcttgaagggctgacacgggagat	Z46299	110153	tgccgttccattccatacaccagct	W42217
24946	agtggtctggccagctaggtgcccg	U29762	67550	agcaaccggacaatataccagcttt	Z46299	110154	gttccattccatacaccagctctca	W42217
24947	ctggccagctaggtgcccgaagaac	U29762	67551	acaatataccagcttttgccgcagc	Z46299	110155	catacaccagctctcacaggataag	W42217
24948	agctaggtgcccgaagaacgtcatg	U29762	67552	atataccagcttttgccgcagcgta	Z46299	110156	atacaccagctctcacaggataagg	W42217
24949	gtgtgtgctcttagcatgttgggga	U29762	67553	taccagcttttgccgcagcgtattt	Z46299	110157	tacaccagctctcacaggataaggc	W42217
24950	gctcttagcatgttggggaacccat	U29762	67554	cttttgccgcagcgtattttgagaa	Z46299	110158	acaccagctctcacaggataaggct	W42217
24951	tcaacacaatcctgaataaatcttg	U29762	67555	ttgccgcagcgtattttgagaacct	Z46299	110159	caccagctctcacaggataaggctt	W42217
24952	aactgaagcctcaaccaatcatgaa	U29762	67556	tgagctgtaacttctgtaagtacat	AA066032	110160	cagccgctgcaactccatccgtgtg	W42217
24953	agcctcaaccaatcatgaagaaggc	U29762	67557	ttgttcatgaccactgtgccatgaa	AA066032	110161	accagctctcacaggataaggcttt	W42217
24954	aagtccaggtgcctgaggaacagaa	U29762	67558	gaggctgtcattccgggcgttgtga	AA066032	110162	agccgctgcaactccatccgtgtgg	W42217
24955	aggagctgtcccactaccgtgctgt	U29762	67559	gttgtgaccgctgccagaaaaagat	AA066032	110163	gccgctgcaactccatccgtgtgga	W42217
24956	actaccgtgctgtgctttcacgcta	U29762	67560	tccggacctaccacagcctaacagg	AA066032	110164	ccgctgcaactccatccgtgtggac	W42217

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
24957	gtgctgtgctttcacgctaccaggc	U29762	67561	acagcctaacaggactgcactgtgt	AA066032	110165	cgctgcaactccatccgtgtggaca	W42217
24958	tgctttcacgctaccaggcccagca	U29762	67562	taacaggactgcactgtgtgtggtg	AA066032	110166	gctgcaactccatccgtgtggacag	W42217
24959	cacgctaccaggcccagcatgggac	U29762	67563	actgtgtgtggtgccacctggagat	AA066032	110167	tgcaactccatccgtgtggacagtg	W42217
24960	tcatcaagcgtccagacctcaagta	L34676	67564	tgtggtgccacctggagatccatga	AA066032	110168	atgggtttcacgactccatcgctcc	W42217
24961	cagacctcaagtaccagctgggttt	L34676	67565	gccacctggagatccatgatgactg	AA066032	110169	ttgatcaatgccgagtatgcgtgtt	W11780
24962	ccatgcctgcagccatgtttaggct	L34676	67566	atgactgtctgcaggctgtaggtcc	AA066032	110170	aatgccgagtatgcgtgttacaaag	W11780
24963	tgtttaggctcctcacgggccagga	L34676	67567	aggctgtaggtcctgagtgtgactg	AA066032	110171	ttcttcgagtctttcaagagggtca	W11780
24964	gccaggagaccccgctgtacatcta	L34676	67568	atgaccactgtgccatgaaggccca	AA066032	110172	ttcgagtctttcaagagggtcatcc	W11780
24965	aggagaccccgctgtacatctaggt	L34676	67569	ctgagtgtgactgtgggttgctccg	AA066032	110173	atccggagccggagtcagtccatgg	W11780
24966	agaccccgctgtacatctaggtaca	L34676	67570	actgtgccatgaaggcccagccttg	AA066032	110174	tccatggatgccatgggactgagca	W11780
24967	tgtacatctaggtacacccaacctc	L34676	67571	ccatgaaggcccagccttgtgaagt	AA066032	110175	ctgagcaacaagaaacccaacaccg	W11780
24968	cctcaccgtggagccgggataccag	L34676	67572	tcagcacctatgccaagtctcggaa	AA066032	110176	aacaccgtgtcaactagccacagtg	W11780
24969	gggataccaggcagacccacctggg	L34676	67573	cctatgccaagtctcggaaagacat	AA066032	110177	accgtgtcaactagccacagtggga	W11780
24970	cggacgagccagaagccaggacaaa	L34676	67574	ttggtgtccagtcacacttatgggt	AA066032	110178	gtgtcaactagccacagtgggagct	W11780
24971	ccaggacctctggctccctcaaagg	L34676	67575	tccagtcacacttatgggttcgagg	AA066032	110179	tcaactagccacagtgggagcttca	W11780
24972	acctcaagtaccagctgggtttcag	L34676	67576	cacacttatgggttcgaggaggctg	AA066032	110180	actagccacagtgggagcttcaccc	W11780
24973	tcaagtaccagctgggtttcagcgt	L34676	67577	ttgggactgcatgctctggtagagg	X51697	110181	gagacgctctacgaggagctccata	W11780
24974	tgggtttcagcgtcagatggatcat	L34676	67578	ccgggcatcaccagtgagcagtgct	X51697	110182	acgctctacgaggagctccatattc	W11780
24975	tcggccaccgtatcatcgagatcaa	L34676	67579	tgtgccagtcgaaactgctgctttt	X51697	110183	ctctacgaggagctccatattcaca	W11780
24976	accgtatcatcgagatcaacggaca	L34676	67580	aactgctgcttttccaacctgatct	X51697	110184	gaggagctccatattcacagccagt	W11780
24977	tggtagccacagcccatgagaagat	L34676	67581	ctgatctttgaagtgccctggtgtt	X51697	110185	gagctccatattcacagccagtcca	W11780
24978	tagtccaggctctgtctaactcggt	L34676	67582	gtgccctggtgtttcttcccacagt	X51697	110186	ctccatattcacagccagtccatga	W11780
24979	acatgaagaccatgcctgcagccat	L34676	67583	tgtcactactgagagttgctactgc	X51697	110187	attcacagccagtccatgatgggcc	W11780
24980	tgaagacattgctcacaagcaaatt	D10171	67584	gagttgctactgccgagccacccgt	X51697	110188	ggtggcttcttcgagtctttcaaga	W11780
24981	cattgctcacaagcaaatttcccca	D10171	67585	ttccctgggagctggcaagccagaa	X51697	110189	cactgctttaactggcactctgtca	AA000961
24982	cagccggacactgtcgtcagggccc	D10171	67586	ccagacttcatcaatctctggggtt	X51697	110190	aactggcactctgtcacgtacgagc	AA000961
24983	gccactgagcagctcagccactatg	D10171	67587	ttcatcaatctctggggtttctaaa	X51697	110191	tgtcttagtcactactgaacagctc	AA000961
24984	gagcagctcagccactatgccctca	D10171	67588	cttgacccttagcagtggctagaca	X51697	110192	cactactgaacagctcgcttcccaa	AA000961
24985	ctcagccactatgccctcaattcag	D10171	67589	atcaccagtgagcagtgctttgatc	X51697	110193	tactgaacagctcgcttcccaatga	AA000961
24986	cactatgccctcaattcagtgcaaa	D10171	67590	cagtgctttgatcttggatgctgct	X51697	110194	tgaacagctcgcttcccaatgagtg	AA000961
24987	gtgcaaacacaggtcgcccaatggg	D10171	67591	tttgatcttggatgctgctttgact	X51697	110195	gctcgcttcccaatgagtgagcaca	AA000961
24988	acacaggtcgcccaatgggggactg	D10171	67592	tctagcgtcgctggggtcccttggt	X51697	110196	cgcttcccaatgagtgagcacagtc	AA000961
24989	cgtccttccagaggctctggacacc	D10171	67593	cttccaaaccaagaatcggagcagt	X51697	110197	ttcccaatgagtgagcacagtccac	AA000961
24990	tccagaggctctggacacctctcat	D10171	67594	gtgtcagctcgcaagaattgtgggt	X51697	110198	agtgagcacagtccactggaatatg	AA000961
24991	ggctctggacacctctcatggcacc	D10171	67595	tgtgggtacccgggcatcagtcccg	X51697	110199	tatgaaccaaccagagactgaaagg	AA000961
24992	tcacaagcaaatttccccagcgtcc	D10171	67596	tacccgggcatcagtcccgaggact	X51697	110200	gaaccaaccagagactgaaagggcg	AA000961
24993	agcgtccattgagctttctgcccta	D10171	67597	taaagtatccggctcacctataagc	X84692	110201	cactctgtcacgtacgagcatgcct	AA000961
24994	tccaagccaagctttggagcccacg	D10171	67598	ctcacctataagcagagatgtcagg	X84692	110202	aagatacctgcttactaagaagcca	AA000961
24995	tttggagcccacgagggagtaccag	D10171	67599	ttaatctgggcaatggtagaaactc	X84692	110203	gtcacgtacgagcatgccttgcggt	AA000961
24996	gtaccagaacacccagctctcagtc	D10171	67600	actcatgcaggctgccactgaggag	X84692	110204	tacgagcatgccttgcggtacttgt	AA000961
24997	ctcagtcagcacctttctgccggag	D10171	67601	catgcaggctgccactgaggaggtc	X84692	110205	tatgtgctggccaatctctgtgagg	AA000961
24998	cagcacctttctgccggagcagagc	D10171	67602	ggctgccactgaggaggtctgcact	X84692	110206	ctggccaatctctgtgaggcaccat	AA000961
24999	tggcaccagccggacactgtcgtca	D10171	67603	tgccactgaggaggtctgcacttta	X84692	110207	gccaatctctgtgaggcaccatatc	AA000961
25000	caccgtggccatcgtctttctcaac	D16847	67604	ggtctgcactttatacagagtcctt	X84692	110208	tgtgaggcaccatatccgattgaca	AA000961
25001	ctacaaccacatgcttcgcaagaag	D16847	67605	ctgaattgtatacccctactccctg	X84692	110209	gaggcaccatatccgattgacagga	AA000961
25002	gtgtgccatgctaccacgctatcta	D16847	67606	cccctactccctgtatcatgtacaa	X84692	110210	cccttggtctctttatgctgctgag	M21952
25003	tgccatgctaccacgctatctaaga	D16847	67607	ctactccctgtatcatgtacaaaaa	X84692	110211	ttggtctctttatgctgctgagtcc	M21952
25004	catgctaccacgctatctaagaacc	D16847	67608	ctccctgtatcatgtacaaaaacat	X84692	110212	gccttctggttacagactatttcca	M21952
25005	cccttcctccctattaatgcatgat	D16847	67609	gtggccagtgactcacaaaagcatt	X84692	110213	ttacagactatttccatgctagaaa	M21952
25006	ctccctattaatgcatgataatgaa	D16847	67610	agtgactcacaaaagcatttgctgc	X84692	110214	cagactatttccatgctagaaaata	M21952
25007	agaatttcatctctaaatgagttaa	D16847	67611	ttgctgctagacttcttttacatga	X84692	110215	gagaaaatccaacccattggcaaga	M21952
25008	atttcatctctaaatgagttaaaga	D16847	67612	ctgctagacttcttttacatgaaac	X84692	110216	ggagcctcaaatccacctttggagc	M21952
25009	tgttattctaaactcttatcaagta	D16847	67613	ctagacttcttttacatgaaacaag	X84692	110217	gcattaggaacccttctctcctctg	M21952
25010	tattctaaactcttatcaagtatca	D16847	67614	cactcttgaatgctagacatgctct	X84692	110218	agggagcactgcctcacaaactgtg	M21952
25011	tctaaactcttatcaagtatcaaat	D16847	67615	gacatgctctctctcttaatctggg	X84692	110219	gagcactgcctcacaaactgtgaga	M21952
25012	ggttccttagagctctctacgcagt	D16847	67616	tctctcttaatctgggcaatggtag	X84692	110220	tgcctcacaaactgtgagactgcgt	M21952
25013	gagctctctacgcagtctgcgcttt	D16847	67617	ggcaacgacatcagcagtgggaacg	AA065517	110221	tttatacttggaagtggtgaattat	M21952
25014	ctctctacgcagtctgcgcttttg	D16847	67618	caacgacatcagcagtgggaacgtc	AA065517	110222	caataatctttcaggccatgaatct	M21952
25015	tttgctctattgtgtggaatcgagt	D16847	67619	ctcaccaaccggtctggagaccatc	AA065517	110223	taatctttcaggccatgaatctggg	M21952
25016	tgaacgctatgcttacatatattgt	D16847	67620	ccggtctggagaccatcgtgggaag	AA065517	110224	tctttcaggccatgaatctgggagg	M21952
25017	atattgtcttgtgttgctgtgtgcc	D16847	67621	ggtctggagaccatcgtgggaagtt	AA065517	110225	ctgtaagctccatcagccctgtcct	M21952
25018	tcttgtgttgctgtgtgccatgcta	D16847	67622	aagttcaaaactgcagctttccgca	AA065517	110226	ccatcagccctgtcctgagacagca	M21952
25019	gttgctgtgtgccatgctaccacgc	D16847	67623	ctgcagctttccgcaagaagtatca	AA065517	110227	cactggagactttcttgtggggctt	M21952
25020	aacacatcagtgagctatcttctac	L20315	67624	agctttccgcaagaagtatcacctg	AA065517	110228	tacttagccttctggttacagacta	M21952
25021	atgatgtattctcgctttaacactt	L20315	67625	cgtgttaccaggcggaatgggacag	AA065517	110229	ttagccttctggttacagactattt	M21952
25022	ttgaagccagccatctttctgaaaa	L20315	67626	tgttaccaggcggaatgggacagct	AA065517	110230	acacgtgctcttcgacatcaccggc	W11827
25023	ccagccatctttctgaaaatactag	L20315	67627	ttaccaggcggaatgggacagctat	AA065517	110231	caccggcgatgacgagccctctggg	W11827
25024	ggcacatcagaagactcccagatct	L20315	67628	cagctatgtaccaaagctgtacaaa	AA065517	110232	acgccacgatctcggctatacgggt	W11827

TABLE 1

SEQ ID NO	sequence	DBAxnID
25025	tcagaagactcccagatctttaatg	L20315
25026	gactcccagatctttaatgcagaaa	L20315
25027	taatatttgtcccataaacatgtaa	L20315
25028	tatttgtcccataaacatgtaactc	L20315
25029	ttgtcccataaacatgtaactctac	L20315
25030	tcccataaacatgtaactctactaa	L20315
25031	cataaacatgtaactctactaacaa	L20315
25032	tattctcgctttaacacttacaatc	L20315
25033	cgctttaacacttacaatcaagctc	L20315
25034	agagacttcctcattcgtttccagt	L20315
25035	acctgcccagccaagagggctaatt	L20315
25036	gctaattgcacaacctctccatcga	L20315
25037	ccatcgaacctgcctcttgagcgtt	L20315
25038	gtgctttgtgggtttgggctatatt	L20315
25039	gtttcattgaagccagccatctttc	L20315
25040	agagtaccaagacttggcgtcagcc	U28495
25041	cttggcgtcagccctaggactagtg	U28495
25042	cacgtctctggacaagccctcagtg	U28495
25043	tctggacaagccctcagtggtgtcc	U28495
25044	caagccctcagtggtgtccttgcag	U28495
25045	ggtgtccttgcagaacctcatcgta	U28495
25046	catagccaaccaggcgaaagggatg	U28495
25047	ttctggaccgcctgagatgtatgag	U28495
25048	accgcctgagatgtatgaggtgcat	U28495
25049	tacctggatccgtgtcatccagcag	U28495
25050	gatccgtgtcatccagcagagtgtg	U28495
25051	tgtcatccagcagagtgtgcgcctg	U28495
25052	gtcagccctaggactagtgaaggag	U28495
25053	tacatatggcttcaggtcctagtcg	U28495
25054	ccaggatgtgcacgagctggagaaa	U28495
25055	tgtgcacgagctggagaaagaggcc	U28495
25056	acttatccatgaaggctgcctgctc	U28495
25057	cacaggccgcttcaaagatgtcctg	U28495
25058	ccgcttcaaagatgtcctgttgctg	U28495
25059	tgtcctgttgctgctgatgacagat	U28495
25060	gttgctgctgatgacagatgtgctc	U28495
25061	accatgatggctgacccgcttcagg	W74914
25062	catgatggctgacccgcttcaggag	W74914
25063	atgctggcagcggtgatatccctat	W74914
25064	gcggtgatatccctatctaggatgt	W74914
25065	cggtgatatccctatctaggatgtc	W74914
25066	gtgatatccctatctaggatgtcga	W74914
25067	tgatatccctatctaggatgtcgaa	W74914
25068	atatccctatctaggatgtcgaagc	W74914
25069	tatccctatctaggatgtcgaagcc	W74914
25070	tccctatctaggatgtcgaagccgc	W74914
25071	ccctatctaggatgtcgaagccgct	W74914
25072	aggatgtcgaagccgctgggcttgt	W74914
25073	atgatggctgacccgcttcaggaga	W74914
25074	atgtcgaagccgctgggcttgtgac	W74914
25075	gctgacccgcttcaggagattgaca	W74914
25076	tgacccgcttcaggagattgacaca	W74914
25077	gacccgcttcaggagattgacacaa	W74914
25078	ctgatgatgctggcagcggtgatat	W74914
25079	tgatgatgctggcagcggtgatatc	W74914
25080	atgatgctggcagcggtgatatccc	W74914
25081	tgatgctggcagcggtgatatccct	W74914
25082	agaatgaccccatcaggcttccaac	U30823
25083	cctgtggacagtctgagcagctcca	U30823
25084	gaactgccctacatatcttaaattg	U30823
25085	ccctacatatcttaaattggattgt	U30823
25086	tcatcaggacaactactgttttcta	U30823
25087	atattacacgaggctcggagtttgt	U30823
25088	aattacactgaccaagtcacaatgt	U30823
25089	actgaccaagtcacaatgtattccg	U30823
25090	acaatgtattccggttgcaggaact	U30823
25091	cccagtatgcccagtgtgatcttgg	U30823
25092	agtgtgatcttggagcgttgggtct	U30823

SEQ ID NO	sequence	DBAxnID
67629	gacatcagcagtgggaacgtcctct	AA065517
67630	tggtgtaccagcaggacaagccact	AA065517
67631	gtaccagcaggacaagccactgaga	AA065517
67632	cagcaggacaagccactgagatgtg	AA065517
67633	aggacaagccactgagatgtgacga	AA065517
67634	gacaagccactgagatgtgacgaac	AA065517
67635	atgtgacgaacccatcctcaccaac	AA065517
67636	tcctcaccaaccggtctggagacca	AA065517
67637	ggatccatgccatgctcaagagcat	AA139907
67638	ctcaagagcatctgtgtagaagtgg	AA139907
67639	tggacctagaagcccagttccacct	AA139907
67640	gacctagaagcccagttccacctgc	AA139907
67641	tagaagcccagttccacctgcactt	AA139907
67642	gaagcccagttccacctgcacttct	AA139907
67643	cacctgacccggaaagcacaggagg	AA139907
67644	agcacaggaggtgacgcggaaatac	AA139907
67645	aatgacagggcaggtcctgtaggtc	AA139907
67646	ggcaggtcctgtaggtctttgactc	AA139907
67647	caggtcctgtaggtctttgactctt	AA139907
67648	ggtcctgtaggtctttgactcttct	AA139907
67649	ctggcaacgaaaccagcgaggctga	AA139907
67650	tcctgtaggtctttgactcttctga	AA139907
67651	caacgaaaccagcgaggctgagaac	AA139907
67652	acgaaaccagcgaggctgagaacga	AA139907
67653	gaaaccagcgaggctgagaacgacg	AA139907
67654	aaccagcgaggctgagaacgacgct	AA139907
67655	gctgagaacgacgctgctgaaacgg	AA139907
67656	gatctcggaggagctggacctagaa	AA139907
67657	gctggacctagaagcccagttccac	AA139907
67658	gctgactttggcctggccgggtctt	AA065538
67659	tctctccggatggtggtcgcctcta	AA065538
67660	actcctgtatggcgctcggcagtat	AA065538
67661	tcctgtatggcgctcggcagtatga	AA065538
67662	gtatggcgctcggcagtatgaccag	AA065538
67663	atggcgctcggcagtatgaccagcg	AA065538
67664	cgctcggcagtatgaccagcgcgtt	AA065538
67665	gcagtatgaccagcgcgttgaccta	AA065538
67666	agtatgaccagcgcgttgacctatg	AA065538
67667	tatgaccagcgcgttgacctatggg	AA065538
67668	accagcgcgttgacctatgggctgt	AA065538
67669	cagcgcgttgacctatgggctgtgg	AA065538
67670	tctccggatggtggtcgcctctaca	AA065538
67671	ctacacacatcaggtggccaccagg	AA065538
67672	taccgagctcctgaactcctgtatg	AA065538
67673	ccgagctcctgaactcctgtatggc	AA065538
67674	gagctcctgaactcctgtatggcgc	AA065538
67675	gctcctgaactcctgtatggcgctc	AA065538
67676	ctgaactcctgtatggcgctcggca	AA065538
67677	gaactcctgtatggcgctcggcagt	AA065538
67678	aagtcttcttggagagcggtgagaa	Z14224
67679	ttaaactggtctccacatcctacat	Z14224
67680	tctcaggcaccagagaacgcaaagc	Z14224
67681	caggcaccagagaacgcaaagcagc	Z14224
67682	cagccactaccctgggattgatctt	Z14224
67683	tgtcaaacttttggcatggcttgg	Z14224
67684	ttttggcatggcttggttacctgaa	Z14224
67685	tgaattcccttataaatccactgat	Z14224
67686	atccactgatttataccatctttaa	Z14224
67687	cactgatttataccatctttaatga	Z14224
67688	tttataccatctttaatgaagactt	Z14224
67689	aacttgtacgatgccgatattagga	Z14224
67690	aactggtctccacatcctacatgtt	Z14224
67691	tggtctccacatcctacatgttaga	Z14224
67692	ccttgtccgatccatcaacggactt	Z14224
67693	tgtccgatccatcaacggactttga	Z14224
67694	catcaacggactttgatagaattca	Z14224
67695	atagaattcacagcaccgtgaaaag	Z14224
67696	gaattcacagcaccgtgaaaagtcc	Z14224

SEQ ID NO	sequence	DBAxnID
110233	tacgggttcctcccttcacagcatc	W11827
110234	cagcatcattccaggattcacgtcg	W11827
110235	catcattccaggattcacgtcgcca	W11827
110236	cattccaggattcacgtcgccagcc	W11827
110237	ggtccatctacggacagaaatcttg	W11827
110238	gatgacgaactctcatcctcaacgc	W11827
110239	gacgaactctcatcctcaacgcata	W11827
110240	tcctcaacgcatacaggtcctgcga	W11827
110241	tcaacgcatacaggtcctgcgatct	W11827
110242	tcccagacacacttccaaagacagc	W11827
110243	cagaacactttcgcgctccgagcac	W11827
110244	aacactttcgcgctccgagcactgc	W11827
110245	ttcgcgctccgagcactgcagacgc	W11827
110246	ctccgagcactgcagacgccacgat	W11827
110247	cgagcactgcagacgccacgatctc	W11827
110248	ctgcagacgccacgatctcggctat	W11827
110249	cagacgccacgatctcggctatacg	W11827
110250	tcctcgaccgagcgctggtacagct	W11833
110251	tcgaccgagcgctggtacagcttcc	W11833
110252	cccggcgaagcagtcatgagctgct	W11833
110253	gtcatgagctgctgacggccacgtc	W11833
110254	atgagctgctgacggccacgtcatc	W11833
110255	tgacggccacgtcatcactacttgg	W11833
110256	cggccacgtcatcactacttggaac	W11833
110257	ccacgtcatcactacttggaacgag	W11833
110258	ccgatgcgctgaggtcctttcccag	W11833
110259	ttcccagcttacttctcgcgtatgg	W11833
110260	gcttacttctcgcgtatggaatcat	W11833
110261	tacttctcgcgtatggaatcatgtc	W11833
110262	accgagcgctggtacagcttccacc	W11833
110263	agcgaagcctgtgtactgctcatct	W11833
110264	gcctgtgtactgctcatctacactc	W11833
110265	tgtgtactgctcatctacactctca	W11833
110266	gtactgctcatctacactctcagca	W11833
110267	ctcatctacactctcagcaggagat	W11833
110268	atctacactctcagcaggagatggc	W11833
110269	tacactctcagcaggagatggccac	W11833
110270	gagttctccttcaagaagctaacat	X03019
110271	ctaacatgtgtgcagacccgcctga	X03019
110272	acctttctgactgatatccccctttg	X03019
110273	ctgactgatatccccctttgaatgca	X03019
110274	agcccaggccagctctgaatccagc	X03019
110275	ggccagctctgaatccagcttctca	X03019
110276	atccagcttctcagactgctgcttt	X03019
110277	agactgctgcttttgtgcctgcgta	X03019
110278	ctgcttttgtgcctgcgtaatgagc	X03019
110279	cctctgaaaacgctgactcagcttg	X03019
110280	tattttctactgatagggaccatta	X03019
110281	ttgcaactctatttattgagaatgt	X03019
110282	cagacccgcctgaagatattcgagc	X03019
110283	ttcgagcagggtctacggggcaatt	X03019
110284	ttcaccaaactcaagggcgccttga	X03019
110285	aaactcaagggcgccttgaacatga	X03019
110286	gccttgaacatgacagccagctact	X03019
110287	acagccagctactaccagacatact	X03019
110288	gttaccacctatgcggatttcatag	X03019
110289	acctatgcggatttcatagacagcc	X03019
110290	aattcacttcagagcaatccactac	AA103457
110291	cttcagagcaatccactactgccag	AA103457
110292	ctcatcccaggtggatcccatgtgt	AA103457
110293	atcccaggtggatcccatgtgtctg	AA103457
110294	tcccatgtgtctgcagtagaccagt	AA103457
110295	catgtgtctgcagtagaccagtcac	AA103457
110296	gtagaccagtcacctttgtagccag	AA103457
110297	cagtcacctttgtagccagcaccat	AA103457
110298	tcacctttgtagccagcaccatgcc	AA103457
110299	tttagtcttgagtaccctcctgca	AA103457
110300	agtcttgagtaccctcctgcattt	AA103457

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25093	atcttggagcgttgggtcttgacat	U30823	67697	aaagtcccagatcggaactgaagca	Z14224	110301	gagtacccttcctgcatttattggt	AA103457
25094	agctccagcagctcctatgatggca	U30823	67698	caggcattcatgttgttctgaagta	AA065443	110302	ccactactgccagaccagaaggtct	AA103457
25095	agcagctcctatgatggcagtgacc	U30823	67699	gcattcatgttgttctgaagtatgt	AA065443	110303	ctactgccagaccagaaggtctgct	AA103457
25096	tcctatgatggcagtgaccgggagg	U30823	67700	gactatgcattggttctggtatgtg	AA065443	110304	atgcagaatcgtgccttcatctcag	AA103457
25097	gatccacggggtgacttccattctc	U30823	67701	gtatgtgcacgcatctcatcatcat	AA065443	110305	aatcgtgccttcatctcagaattgc	AA103457
25098	ccaattgtgcttggccgacctgcta	U30823	67702	gcacgcatctcatcatcatgatccg	AA065443	110306	cgtgccttcatctcagaattgctca	AA103457
25099	agcccttctgtaaaacgcatgagga	U30823	67703	atctcatcatcatgatccgggaaga	AA065443	110307	atctcagaattgctcatcccaggtg	AA103457
25100	taaggcttcctggtacatgtttgtt	U30823	67704	agtatcgtaaccggatcatgtgtac	AA065443	110308	tcagaattgctcatcccaggtggat	AA103457
25101	tgttactgcagtgaactgccctaca	U30823	67705	atcgtaaccggatcatgtgtaccgt	AA065443	110309	gaattgctcatcccaggtggatccc	AA103457
25102	tcctgccacgacattcaggtcgcag	W74811	67706	tcatgtgtaccgtgagtatagtgcc	AA065443	110310	cgccctgcagctccacatgcaaagg	M64849
25103	ctgccacgacattcaggtcgcagac	W74811	67707	tagagccctacaattgcagtctgtc	AA065443	110311	gcagctccacatgcaaaggactcca	M64849
25104	caggtcgcagacagcatggggtctc	W74811	67708	acaattgcagtctgtctatacatag	AA065443	110312	cttgcagtcctgtggcagggagcac	M64849
25105	gcagacagcatggggtctcggttct	W74811	67709	attgcagtctgtctatacataggta	AA065443	110313	gtcctgtggcagggagcacagactg	M64849
25106	agacagcatggggtctcggttcttc	W74811	67710	gctttgatcagcttcatgcttgtta	AA065443	110314	tcagcccacagtggcttttcatttt	M64849
25107	gcaaggctcccgctgaagttacttg	W74811	67711	tcgaaaacgatgctctctatgacat	AA065443	110315	tataagacatgaactcctctgggca	M64849
25108	caaggctcccgctgaagttacttga	W74811	67712	atcagcttcatgcttgttaggtgac	AA065443	110316	acatgaactcctctgggcaggtggc	M64849
25109	ctcccgctgaagttacttgacctct	W74811	67713	ttcatgcttgttaggtgacccagtc	AA065443	110317	ccacaagccttctctgatggattag	M64849
25110	agttgccaaagacctggtacagaag	W74811	67714	atgcttgttaggtgacccagtctct	AA065443	110318	gccttctctgatggattagaggtgc	M64849
25111	aagctcggcggccatggacaatgac	W74811	67715	aggtgacccagtctctgggactatg	AA065443	110319	ccactctgtgtcttcttcctcatgt	M64849
25112	agctcggcggccatggacaatgacc	W74811	67716	tgacccagtctctgggactatgcat	AA065443	110320	ttcttcctcatgtgcccttcagtct	M64849
25113	ctcggcggccatggacaatgaccca	W74811	67717	cccagtctctgggactatgcattgg	AA065443	110321	ctcatgtgcccttcagtctgctcct	M64849
25114	tgccacgacattcaggtcgcagaca	W74811	67718	ctctgggactatgcattggttctgg	AA065443	110322	actccaggctgcaggcttctcttga	M64849
25115	ccacgacattcaggtcgcagacagc	W74811	67719	tttgtgacccagtatcagcactcaa	D12713	110323	ctcttgactccaagaacctggaaca	M64849
25116	cacgacattcaggtcgcagacagca	W74811	67720	cactcaagtggccagagacgcatcc	D12713	110324	actccaagaacctggaacaagtgtg	M64849
25117	cgacattcaggtcgcagacagcatg	W74811	67721	ctcatggccaggctggcaatataca	D12713	110325	ggcacttagcctgaggacctctgca	M64849
25118	gacattcaggtcgcagacagcatgg	W74811	67722	gacagacaactcattcgactgtgtc	D12713	110326	tagcctgaggacctctgcatgtcct	M64849
25119	cattcaggtcgcagacagcatgggg	W74811	67723	caactcattcgactgtgtcaaaaat	D12713	110327	atgtcctgcctggttcctggaccac	M64849
25120	attcaggtcgcagacagcatggggt	W74811	67724	catactatcgtcaccatttcatgcg	D12713	110328	gttcctggaccactggccagccagc	M64849
25121	tcaggtcgcagacagcatggggtct	W74811	67725	accatttcatgcgtcaggatctgac	D12713	110329	ctggccagccagcagggaacatgtt	M64849
25122	gctaagtctgaccctatggtgcagt	AA105294	67726	gtcaggatctgacccagtctctgat	D12713	110330	tgaggcccctcaagttgcccagacc	X14094
25123	aagtctgaccctatggtgcagtgca	AA105294	67727	ctctgatcatgattcagcccattct	D12713	110331	tgaagccagggcatgtttgcagtgt	X14094
25124	gagatctgccttaaggacctggagg	AA105294	67728	tcatgattcagcccattctgtacgc	D12713	110332	caatcggtccaggagtcttcactaa	X14094
25125	gaccatgcctgcatccccatcaaga	AA105294	67729	ttcagcccattctgtacgcctactc	D12713	110333	gtccaggagtcttcactaaggttgt	X14094
25126	tgcatccccatcaagaaatctgacc	AA105294	67730	ccattctgtacgcctactccttcag	D12713	110334	gagtcttcactaaggttgtgcacta	X14094
25127	atccccatcaagaaatctgaccctg	AA105294	67731	cagagacgcatccgagtgaccacaa	D12713	110335	aggttgtgcactacctgccgtggat	X14094
25128	cccatcaagaaatctgaccctgttg	AA105294	67732	cgagtgaccacaattgctaggaact	D12713	110336	tgcactacctgccgtggataagcag	X14094
25129	atcaagaaatctgaccctgttgtgt	AA105294	67733	accacaattgctaggaactgggcag	D12713	110337	tgaagctgctctaacaggagttaaa	X14094
25130	aaatctgaccctgttgtgtcatatc	AA105294	67734	gatgctcaaactcaaatccaaaata	D12713	110338	tgaccagcctgtccgacctcaggca	X14094
25131	tctgaccctgttgtgtcatatcggg	AA105294	67735	caaactcaaatccaaaatattgctc	D12713	110339	gcctgtccgacctcaggcaagaacc	X14094
25132	gaccctgttgtgtcatatcgggaga	AA105294	67736	caaatccaaaatattgctcgatctt	D12713	110340	ccgacctcaggcaagaaccatgtgg	X14094
25133	accctgttgtgtcatatcgggagac	AA105294	67737	cgatcttttgaccaggaagcagctc	D12713	110341	taaataacctccagagtgcatagag	X14094
25134	tctgaccctatggtgcagtgcatca	AA105294	67738	gcagctccgattctcatggccaggc	D12713	110342	catccatcaatgcaacacaaagatc	X14094
25135	gaggaatccaacgtgctgtgtctgt	AA105294	67739	ttgtgctctcctgcctcatagctgt	D13266	110343	cctccagagtgcatagagctgaaaa	X14094
25136	gaccctatggtgcagtgcatcattg	AA105294	67740	tctcctgcctcatagctgtcctcga	D13266	110344	caacacaaagatcttcctgcctacg	X14094
25137	tgcatcattgaggagtctggagaac	AA105294	67741	cagagcagatccagactcttagccg	D13266	110345	gcctacgagaggctcaactgatcat	X14094
25138	catattattgctggcgccggtgagc	AA105294	67742	agatccagactcttagccgcacact	D13266	110346	agtatttcaagaccatgcagatttg	X14094
25139	attattgctggcgccggtgagctgc	AA105294	67743	agactcttagccgcacactctcagc	D13266	110347	tcaagaccatgcagatttgtgctgg	X14094
25140	ctgcacctggagatctgccttaagg	AA105294	67744	gcacactctcagcaaaagctgcctc	D13266	110348	ccatgcagatttgtgctggagaccc	X14094
25141	cacctggagatctgccttaaggacc	AA105294	67745	tctcagcaaaagctgcctctggctt	D13266	110349	agtctacttacagtggtgactccgg	X14094
25142	ctggagatctgccttaaggacctgg	AA105294	67746	ctgagcaccgaactggccctttag	D13266	110350	acaggacaatcggtccaggagtctt	X14094
25143	tgccccaaagcctcacagaactgtg	U28138	67747	cttttaggcacagggctcctaatgg	D13266	110351	cgagtgcctcgcagcttgagcccac	AA037945
25144	cccaaagcctcacagaactgtgcac	U28138	67748	ctatcaaaacaatgtcatctattcc	D13266	110352	agtgcctcgcagcttgagcccactg	AA037945
25145	cacatgacaacacagtttgtactga	U28138	67749	ctctggggctcaatctgggcaatga	D13266	110353	gcagctgcgcgacgtcatggacaac	AA037945
25146	atgacaacacagtttgtactgaagg	U28138	67750	ggctcaatctgggcaatgaccccga	D13266	110354	cagctgcgcgacgtcatggacaact	AA037945
25147	acaacacagtttgtactgaaggtat	U28138	67751	gcctcatagctgtcctcgagacgtg	D13266	110355	ctgcgcgacgtcatggacaactccg	AA037945
25148	catctacactagacactgtgtcaaa	U28138	67752	ttgacctggagcacctccatagacg	D13266	110356	cgacgtcatggacaactccgggaag	AA037945
25149	ctacactagacactgtgtcaaagtc	U28138	67753	tggagcacctccatagacgtgtaaa	D13266	110357	gacgtcatggacaactccgggaagc	AA037945
25150	acactgtgtcaaagtctgagtgact	U28138	67754	cgtcaattgacttgacccctctgga	D13266	110358	cgtcatggacaactccgggaagcag	AA037945
25151	agtctgagtgactgggtagttgaca	U28138	67755	tgacccctctggacattgacacttt	D13266	110359	gtcatggacaactccgggaagcagg	AA037945
25152	gacatagagctgcttctgtgtaaat	U28138	67756	acattgacactttgccaacacgcca	D13266	110360	catggacaactccgggaagcaggct	AA037945
25153	atagagctgcttctgtgtaaatgct	U28138	67757	cacgccaagccctggagcagatcag	D13266	110361	atggacaactccgggaagcaggctg	AA037945
25154	tgtaaatgctgcttctgtgtaaatg	U28138	67758	aagccctggagcagatcagtgattt	D13266	110362	gtgaagaactcgcagtccttcttct	AA037945
25155	cacaggctgactgtcgctaagttca	U28138	67759	cctttcgagactgctcaaacacgaa	Z23107	110363	gcctcgcagcttgagcccactggtt	AA037945
25156	aggctgactgtcgctaagttcatgg	U28138	67760	acagaaagcagccactaccttgggg	Z23107	110364	cttgagcccactggttggttcgcag	AA037945
25157	caaacctctctggctgcccaggtgg	U28138	67761	ctatcgtagcctactccagtgccag	Z23107	110365	ttgagcccactggttggttcgcagg	AA037945
25158	tattgctagcctgcctgctctaagg	U28138	67762	actccagtgccagtaccggaatatc	Z23107	110366	aggcctgggtgacgtcaacgcagcg	AA037945
25159	tgctagcctgcctgctctaagggtg	U28138	67763	gtgccagtaccggaatatcaaccgg	Z23107	110367	gtccggggcctgtgagtcgtcgcca	AA037945
25160	cctgctacttggcacatgacaacac	U28138	67764	gaatatcaaccggaagctctctgct	Z23107	110368	cgtcgccaggctgtgtcgggcctga	AA037945

TABLE 1

SEQ ID NO	sequence	DBAxnID
25161	gctacttggcacatgacaacacagt	U28138
25162	acttggcacatgacaacacagtttg	U28138
25163	gccttctattcttaaagaggataat	W74989
25164	tttgaccaactggaccaggaaaatg	W74989
25165	aggattcccagtcagctgctgctga	W74989
25166	gattcccagtcagctgctgctgagg	W74989
25167	cagtcagctgctgctgaggaacctg	W74989
25168	agtcagctgctgctgaggaacctga	W74989
25169	cagctgctgctgaggaacctgagac	W74989
25170	ctgctgctgaggaacctgagacaga	W74989
25171	ctcccaagacagcctggacagagaa	W74989
25172	cccaagacagcctggacagagaatg	W74989
25173	ccaagacagcctggacagagaatgc	W74989
25174	aagacagcctggacagagaatgctc	W74989
25175	tgaccaactggaccaggaaaatgat	W74989
25176	ccaactggaccaggaaaatgatgat	W74989
25177	agctcaaattcagcgatgaggaaga	W74989
25178	ctcaaattcagcgatgaggaagatg	W74989
25179	ggccacaaggattcccagtcagctg	W74989
25180	gccacaaggattcccagtcagctgc	W74989
25181	acaaggattcccagtcagctgctgc	W74989
25182	aaggattcccagtcagctgctgctg	W74989
25183	ggacggacgatcacaccctcatcag	U29396
25184	ccctcatcagagtcgtggtgtcgag	U29396
25185	ccatatctctcagtccaatgtctga	U29396
25186	tatctctcagtccaatgtctgagtt	U29396
25187	gttaataaccctattatcttgattg	U29396
25188	aatgctgtcaatcaagcttactgct	U29396
25189	gctgtcaatcaagcttactgctcta	U29396
25190	gtcaatcaagcttactgctctagca	U29396
25191	tactgctctagcagacctgcaaaat	U29396
25192	tctagcagacctgcaaaattatgat	U29396
25193	tagtatccaaaacattggcgacaaa	U29396
25194	tatccaaaacattggcgacaaataa	U29396
25195	atgactgagagccgcctggagcgcc	U29396
25196	ccacacttgcttgcattctgtgcct	U29396
25197	gctgccttacactagtatgctaatg	U29396
25198	tatgctaatgaccaaaggtgtctta	U29396
25199	cttctgatgttctgtctacagtagg	U29396
25200	ctgatgttctgtctacagtaggtag	U29396
25201	gtagtgaccttcccatatctctcag	U29396
25202	accttcccatatctctcagtccaat	U29396
25203	agatatcctccatcgtggaagagct	W75007
25204	tatcctccatcgtggaagagctcag	W75007
25205	acagcctgatttggggcatggcagc	W75007
25206	tgatttggggcatggcagcagtagc	W75007
25207	tagcgctgagcacagctcagagtgg	W75007
25208	aaggcgctgcacacaactgcatcct	W75007
25209	ctgcacacaactgcatccttacgat	W75007
25210	cacacaactgcatccttacgatgtt	W75007
25211	acaactgcatccttacgatgttctc	W75007
25212	actgcatccttacgatgttctctaa	W75007
25213	gcatccttacgatgttctctaaaaa	W75007
25214	tccttacgatgttctctaaaaacat	W75007
25215	cctccatcgtggaagagctcagacc	W75007
25216	tggaagagctcagaccccgagaagc	W75007
25217	aagctggtgtctagctgcggcccag	W75007
25218	tctagctgcggcccagagcaaggat	W75007
25219	tattcaggagacctttctgccatct	W75007
25220	tctccacctacagcctgatttgggg	W75007
25221	ccacctacagcctgatttggggcat	W75007
25222	cctacagcctgatttggggcatggc	W75007
25223	aagttaacactcaagccaagacagc	L31580
25224	acactcaagccaagacagctatccc	L31580
25225	atctccacacttagcaagcaagcaa	L31580
25226	acacttagcaagcaagcaagagatg	L31580
25227	gacagtctctctaaatgctcccaca	L31580
25228	ctctctaaatgctcccacagagcac	L31580

SEQ ID NO:	sequence	DBAxnID
67765	gaagctctctgctgcaggcatgcac	Z23107
67766	tcatgatacatgatccagagcggaa	Z23107
67767	tacatgatccagagcggaaccctgg	Z23107
67768	ggaaacaacgaaaccattggctgag	Z23107
67769	aacgaaaccattggctgagactgca	Z23107
67770	accattggctgagactgcacaacag	Z23107
67771	gatcatcgtgggagccttcacggtg	Z23107
67772	gtttttcctcttgtccacagcaagg	Z23107
67773	agcaaggccctttatctgtggcacc	Z23107
67774	gccctttatctgtggcacctcctgt	Z23107
67775	tggcacctcctgtagctgcatcccg	Z23107
67776	atgtctgtggctgggctatgcaaac	Z23107
67777	gggctatgcaaactctctcattaac	Z23107
67778	gaccacctatcgtagcctactccag	Z23107
67779	aatgatggacccacgagttcttcat	X16319
67780	gatggacccacgagttcttcatcac	X16319
67781	ccttcagtcaatgatgcggcagttt	X16319
67782	tcagtcaatgatgcggcagtttcag	X16319
67783	aatgatgcggcagtttcagcagggt	X16319
67784	atgatgtcatctgctgagacctcac	X16319
67785	atgtcatctgctgagacctcacact	X16319
67786	tcatctgctgagacctcacactttc	X16319
67787	tctgctgagacctcacactttctct	X16319
67788	tcccttctgaagttcgggaagagtg	X16319
67789	cttctgaagttcgggaagagtgcct	X16319
67790	aagtcatcatttctgctttaaatct	X16319
67791	ggacccacgagttcttcatcacatg	X16319
67792	cccacgagttcttcatcacatgggt	X16319
67793	acgagttcttcatcacatgggtggc	X16319
67794	agttcttcatcacatgggtggcatg	X16319
67795	tcttcatcacatgggtggcatggcc	X16319
67796	catggccggccttcagtcaatgatg	X16319
67797	ggccggccttcagtcaatgatgcgg	X16319
67798	cggccttcagtcaatgatgcggcag	X16319
67799	catcgtgggtacctccgagttgagt	AA066096
67800	atcgtgggtacctccgagttgagtg	AA066096
67801	tagtgttcgcgttcagagtgtacgg	AA066096
67802	agtgttcgcgttcagagtgtacggc	AA066096
67803	gtgttcgcgttcagagtgtacggca	AA066096
67804	tgttcgcgttcagagtgtacggcat	AA066096
67805	gttcgcgttcagagtgtacggcatg	AA066096
67806	ttcgcgttcagagtgtacggcatgg	AA066096
67807	tcgcgttcagagtgtacggcatgga	AA066096
67808	cgttcagagtgtacggcatggatga	AA066096
67809	tgggtacctccgagttgagtgtcaa	AA066096
67810	gggtacctccgagttgagtgtcaat	AA066096
67811	ggtacctccgagttgagtgtcaatg	AA066096
67812	gtacctccgagttgagtgtcaatgg	AA066096
67813	tacctccgagttgagtgtcaatggt	AA066096
67814	ggctagtgttcgcgttcagagtgta	AA066096
67815	gctagtgttcgcgttcagagtgtac	AA066096
67816	ctagtgttcgcgttcagagtgtacg	AA066096
67817	gagaaattccacagtcagttaatgc	X78304
67818	gaaattccacagtcagttaatgcga	X78304
67819	gaatcccgcaatgtcactatggaaa	X78304
67820	atcccgcaatgtcactatggaaaca	X78304
67821	cccgcaatgtcactatggaaacaga	X78304
67822	tgaagacgactgttccgttattggg	X78304
67823	tgtcaaagccgagagaccagcctgc	X78304
67824	aaagccgagagaccagcctgcgtcc	X78304
67825	agccgagagaccagcctgcgtccta	X78304
67826	gagagaccagcctgcgtcctaaagt	X78304
67827	gaccagcctgcgtcctaaagtttgc	X78304
67828	tctcttagaaacttttgcagataat	X78304
67829	aattccacagtcagttaatgcgact	X78304
67830	ttccacagtcagttaatgcgactta	X78304
67831	tcagttaatgcgacttatggtggcc	X78304
67832	agttaatgcgacttatggtggccaa	X78304

SEQ ID NO	sequence	DBAxnID
110369	gcctgagccgagcagctgcgcgacg	AA037945
110370	gagcagctgcgcgacgtcatggaca	AA037945
110371	cacagttgaatctcagcaagtgata	L13839
110372	agttgaatctcagcaagtgatatgg	L13839
110373	tactctatcccgagataactttgag	L13839
110374	actctatcccgagataactttgagg	L13839
110375	ctctatcccgagataactttgaggc	L13839
110376	ctatcccgagataactttgaggcat	L13839
110377	atcccgagataactttgaggcataa	L13839
110378	ttttcttcagtgctaagatcatgat	L13839
110379	tgtgaaatcaaacctcgttttatgt	L13839
110380	gcaatttagcttcctactgtgtgtt	L13839
110381	caatttagcttcctactgtgtgttt	L13839
110382	accttgtaacaatatcactataata	L13839
110383	ttgaatctcagcaagtgatatggat	L13839
110384	aatctcagcaagtgatatggattta	L13839
110385	tagaattgtctgccttccaccctga	L13839
110386	tgccttccaccctgaaaagaaggcg	L13839
110387	cttccaccctgaaaagaaggcgcag	L13839
110388	ttccaccctgaaaagaaggcgcaga	L13839
110389	tatgtatttactctatcccgagata	L13839
110390	atgtatttactctatcccgagataa	L13839
110391	aatgactgtctacatcagccggaca	W37024
110392	tgactgtctacatcagccggacaca	W37024
110393	gaacagcagctgtccatcacaggcc	W37024
110394	agcagctgtccatcacaggccctct	W37024
110395	cagctgtccatcacaggccctctgg	W37024
110396	tgtccatcacaggccctctgggcgg	W37024
110397	gtccagtacccaaccttcgcacgag	W37024
110398	tacccaaccttcgcacgagtgtgtt	W37024
110399	caaccttcgcacgagtgtgttgcac	W37024
110400	accttcgcacgagtgtgttgcacgt	W37024
110401	tcgcacgagtgtgttgcacgtttac	W37024
110402	gtgtgttgcacgtttacatggggtg	W37024
110403	tgtctacatcagccggacacagccc	W37024
110404	tctacatcagccggacacagccctg	W37024
110405	acagccctggagcgctggcatactc	W37024
110406	agccctggagcgctggcatactctg	W37024
110407	cgctggcatactctgaccagagagc	W37024
110408	catactctgaccagagagctgcccc	W37024
110409	tgcagcaggggcttacccttggct	W37024
110410	cctttggcttgagtgaacagcagct	W37024
110411	ttccagcacaatgactgcttccctt	M30687
110412	tttttcctgaatacagcagacactg	M30687
110413	ttcctctggaacaacaaggtgataa	M30687
110414	gtgataaatctcttccggcccacta	M30687
110415	ttccggcccactatgggagcttcac	M30687
110416	gcttcacaaatcacactgcaacgcg	M30687
110417	acactgcaacgcgctaaagacggga	M30687
110418	ttcaacttctgtaccagcaacactg	M30687
110419	accagcaacactgtgcatgaagatg	M30687
110420	gttctgcagtctctgtacccttgtt	M30687
110421	cagtctctgtaccctgttaatggt	M30687
110422	tgtgcccgtgcctcttcccataata	M30687
110423	ctgaatacagcagacactggtaact	M30687
110424	ataataaacgttcctgatccacttg	M30687
110425	aaagtatcagtcacactatcaggac	M30687
110426	tcagtcacactatcaggaccaaaga	M30687
110427	acactatcaggaccaaagaagctga	M30687
110428	tacatcttggtcgctctgtacggat	M30687
110429	ttggtcgctctgtacggatgtaacg	M30687
110430	ttcaaaggatccctccaaccagaag	M30687
110431	tatattcgtgacattgatgtggacg	M30687
110432	tcaagctgaaccagccacccgagga	W82998
110433	accagccacccgaggatggcatctc	W82998
110434	ccaattccatgaggctcaagtacca	W82998
110435	ggctcaagtaccagcacactggtgc	W82998
110436	acactggtgctgtcctggactgcgc	W82998

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25229	ctgaggtccaggccacaccatgacg	L31580	67833	ttaatgcgacttatggtggccaagg	X78304	110437	ctggtgctgtcctggactgcgcctt	W82998
25230	tagttgggtctctatgatgggaata	L31580	67834	aatgcgacttatggtggccaaggaa	X78304	110438	tcctggactgcgccttctacgatcc	W82998
25231	gtgaccctgctggctgacagaggcc	L31580	67835	tggccaaggaatcccgcaatgtcac	X78304	110439	tggactgcgccttctacgatccaac	W82998
25232	cagcaagctacttctttgttctctg	L31580	67836	gccaaggaatcccgcaatgtcacta	X78304	110440	gcgccttctacgatccaacgcatgc	W82998
25233	cagccactgataccttttcctcatgt	L31580	67837	atgctgtcatggtcacctgccaaca	Z12604	110441	tctacgatccaacgcatgcctggag	W82998
25234	ctgataccttttcctcatgttctgct	L31580	67838	tcatggtcacctgccaacaattgtc	Z12604	110442	atccaacgcatgcctggagtggtgg	W82998
25235	agacagctatccccaaaacgacagc	L31580	67839	cctgctaagcaactggaccagtatc	Z12604	110443	caacgcatgcctggagtggtggatt	W82998
25236	gggccagtgaacaccctggttgagt	L31580	67840	ctggaccagtatctttcctggtaag	Z12604	110444	agccacccgaggatggcatctcctc	W82998
25237	gtgaacaccctggttgagtagtctt	L31580	67841	ctttcctggtaagtcagctctggag	Z12604	110445	aggatggcatctcctcggttaagtt	W82998
25238	tagtcttcggaggcctctgaatgaa	L31580	67842	tgatcatattctggcaggtgattca	Z12604	110446	atggcatctcctcggttaagttcag	W82998
25239	gcctctgaatgaacctgcttctagc	L31580	67843	agacaagtgcttcctggaactcagg	Z12604	110447	gcatctcctcggttaagttcagccc	W82998
25240	gaatgaacctgcttctagcttagag	L31580	67844	acagccagccaaggaggcagctgct	Z12604	110448	ttaagttcagccccaacacatccca	W82998
25241	gagatgtcccggagattcaagacag	L31580	67845	ttcctcccagagacacggaacctca	Z12604	110449	tgcgcctctacgatgtgcccgccaa	W82998
25242	aagacagagcttatctccacactta	L31580	67846	ttctggggccctcttcctagcacag	Z12604	110450	acgatgtgcccgccaattccatgag	W82998
25243	gaggacttccatgcacgacgggagg	W75015	67847	cttcctagcacaggtaccctctaag	Z12604	110451	tgcccgccaattccatgaggctcaa	W82998
25244	gagggcatccgccaacaaatccgct	W75015	67848	ggtaccctctaagccatgtacatgt	Z12604	110452	gtgctctgtgcctgggtatgatgcc	W11954
25245	accgttgatctgactctgcagcctg	W75015	67849	tcacctgccaacaattgtctcagac	Z12604	110453	ctctgtgcctgggtatgatgccagc	W11954
25246	gttgatctgactctgcagcctgccc	W75015	67850	gccaacaattgtctcagactaggca	Z12604	110454	gatcacgtctattgccatcggtcag	W11954
25247	gagcttgctccaccaaaaagagagg	W75015	67851	atttcagctaccaataatccacagt	Z12604	110455	cacgtctattgccatcggtcagcag	W11954
25248	cttgctccaccaaaaagagagggtg	W75015	67852	tggttgcccaaggtctccatctctg	Z12604	110456	tattgccatcggtcagcagaaggct	W11954
25249	gctccaccaaaaagagagggtgcca	W75015	67853	cccacacaaactcaggaatcacctg	Z12604	110457	tgccatcggtcagcagaaggcttta	W11954
25250	ggtgccatctccgacaataccaaag	W75015	67854	caaactcaggaatcacctgcaatga	Z12604	110458	ggctttaaccaagcagataaggcca	W11954
25251	atctccgacaataccaaagcagccc	W75015	67855	tcacctgcaatgaggttcctgttgg	Z12604	110459	gataaggccatcaacaccgccgtga	W11954
25252	tccgacaataccaaagcagccctca	W75015	67856	gctgcccctgctaagcaactggacc	Z12604	110460	aaggccatcaacaccgccgtgaagt	W11954
25253	gacaataccaaagcagccctcaaag	W75015	67857	tcagtgccgtgaactagtgctggag	AA066122	110461	atcaacaccgccgtgaagtcaggca	W11954
25254	aataccaaagcagccctcaaagctg	W75015	67858	agtgccgtgaactagtgctggagca	AA066122	110462	tgcttccgacttttcctcaccatgg	W11954
25255	ttccagccttctctgcagcctgtgg	W75015	67859	gagaactcacggtgctccatgggct	AA066122	110463	ttccgacttttcctcaccatggaga	W11954
25256	gagcctgtgtgtccagatgttgaga	W75015	67860	gaactcacggtgctccatgggctca	AA066122	110464	tgatgccagcggacatgttgaggac	W11954
25257	gcactgccaccatgctctgatcctg	W75015	67861	tcacggtgctccatgggctcaggcg	AA066122	110465	cgacttttcctcaccatggagatca	W11954
25258	tgctctgatcctgcacctgacaccg	W75015	67862	ccatgggctcaggcgcgtacgagtg	AA066122	110466	tgccagcggacatgttgaggacctc	W11954
25259	tctgatcctgcacctgacaccgttg	W75015	67863	gggctcaggcgcgtacgagtgcaca	AA066122	110467	acatgttgaggacctcgcagcagag	W11954
25260	cctgcacctgacaccgttgatctga	W75015	67864	gctcaggcgcgtacgagtgcacagg	AA066122	110468	tgttgaggacctcgcagcagagcag	W11954
25261	cctgacaccgttgatctgactctgc	W75015	67865	aggcgcgtacgagtgcacaggcgca	AA066122	110469	ggacctcgcagcagagcagaacacg	W11954
25262	gacaccgttgatctgactctgcagc	W75015	67866	gagtgcacaggcgcacgcttgggat	AA066122	110470	gcagaacacgcagatcacgtctatt	W11954
25263	acatgaactacagctgtgctgtgaa	L29441	67867	gtgcacaggcgcacgcttgggatac	AA066122	110471	cacgcagatcacgtctattgccatc	W11954
25264	actacagctgtgctgtgaagagaat	L29441	67868	acaggcgcacgcttgggatacatga	AA066122	110472	gcagatcacgtctattgccatcggt	W11954
25265	ccccagaaatgcagcgctcatacag	L29441	67869	actagtgctggagcagtttgacgag	AA066122	110473	atcagcaccaaggagctgggcaagg	J04971
25266	agcgctcatacagctgagagaaggc	L29441	67870	ggcttagtagtgctcgccttcttgg	AA066122	110474	cttccgcatgtttgacaaaaacgct	J04971
25267	tacttttatactacactgatgctg	L29441	67871	cttagtagtgctcgccttcttggtg	AA066122	110475	tgcagctgggctctctagactctga	J04971
25268	actgatgctgcttgatagaagtctg	L29441	67872	tagtagtgctcgccttcttggtgcc	AA066122	110476	cagctgggctctctagactctgagc	J04971
25269	tctgtgggctttgtcagatatgtca	L29441	67873	cgccttcttggtgccgctcggcctt	AA066122	110477	ctctagactctgagcctgcctgtgt	J04971
25270	gtcagatatgtcacccaagtaaatg	L29441	67874	gagcctcctcatgatcctgctctgg	AA066122	110478	actctgagcctgcctgtgtccttga	J04971
25271	tatgtcacccaagtaaatgctttgt	L29441	67875	cctcatgatcctgctctggggcagc	AA066122	110479	tctgagcctgcctgtgtccttgaac	J04971
25272	aaagctcacttgagaaacactgcag	L29441	67876	cagagaactcacggtgctccatggg	AA066122	110480	tgagcctgcctgtgtccttgaacct	J04971
25273	tttattacatttgcaacataaaagt	L29441	67877	actgctcattggtccagctgctgat	AA066068	110481	cctgcctgtgtccttgaaccttggc	J04971
25274	attacatttgcaacataaaagtact	L29441	67878	tgctcattggtccagctgctgattc	AA066068	110482	tgcctgtgtccttgaaccttggcct	J04971
25275	gcattaatccacatttcccttcttc	L29441	67879	gggccccgatctaagcaggcttcct	AA066068	110483	tgtgtccttgaaccttggccttccg	J04971
25276	ttaatccacatttcccttcttcaga	L29441	67880	cccctgtccaggtggcccgactgag	AA066068	110484	cattcctgtcctggggaacgcaaat	J04971
25277	atccacatttcccttcttcagaggt	L29441	67881	cctgtccaggtggcccgactgagag	AA066068	110485	tgatgctgcaggccacaggtgagac	J04971
25278	atttcccttcttcagaggtgtagtg	L29441	67882	tccaggtggcccgactgagagtgcc	AA066068	110486	atgctgcaggccacaggtgagacca	J04971
25279	tgtatttaggtcagtccccagaaat	L29441	67883	caggtggcccgactgagagtgccag	AA066068	110487	actatgacgagttcctggaattcat	J04971
25280	atttaggtcagtccccagaaatgca	L29441	67884	tggcccgactgagagtgccagagcg	AA066068	110488	tgacgagttcctggaattcatgaag	J04971
25281	taggtcagtccccagaaatgcagcg	L29441	67885	gcccgactgagagtgccagagcggt	AA066068	110489	acgagttcctggaattcatgaaggg	J04971
25282	agtccccagaaatgcagcgctcata	L29441	67886	cgattgcacagtgtttgggagcgtg	AA066068	110490	tgctggtcttgcacggttgcctgcg	J04971
25283	tgctcatgtcaacagactgtcggac	W41701	67887	attgcacagtgtttgggagcgtgat	AA066068	110491	cccagaccccgtggtaggagtgcag	J04971
25284	gctcatgtcaacagactgtcggaca	W41701	67888	tgcacagtgtttgggagcgtgattg	AA066068	110492	agtgcagctgggctctctagactct	J04971
25285	ttcaggcacacgcacagtcatattg	W41701	67889	ctcattggtccagctgctgattcgc	AA066068	110493	ttcaatcaattcattcaaacctggc	W11964
25286	aggcacacgcacagtcatattgtcc	W41701	67890	cattggtccagctgctgattcgcgc	AA066068	110494	caatcaattcattcaaacctggctg	W11964
25287	ggcacacgcacagtcatattgtcca	W41701	67891	ttggtccagctgctgattcgcgcct	AA066068	110495	atgctggagtctctctagtcttttc	W11964
25288	cacacgcacagtcatattgtccata	W41701	67892	ggtccagctgctgattcgcgcctgt	AA066068	110496	tgctggagtctctctagtcttttcg	W11964
25289	acacgcacagtcatattgtccatag	W41701	67893	tccagctgctgattcgcgcctgtag	AA066068	110497	ctggagtctctctagtcttttcgct	W11964
25290	cacgcacagtcatattgtccatagc	W41701	67894	cagctgctgattcgcgcctgtagca	AA066068	110498	tggagtctctctagtcttttcgctc	W11964
25291	cgcacagtcatattgtccatagcct	W41701	67895	gctgctgattcgcgcctgtagcagg	AA066068	110499	gagtctctctagtcttttcgctcca	W11964
25292	taacttctcatagatgtgatcctca	W41701	67896	cgcgcctgtagcaggggtctagtga	AA066068	110500	agtctctctagtcttttcgctccat	W11964
25293	aacttctcatagatgtgatcctcaa	W41701	67897	gccgtacccagacaccaggctcatg	X62933	110501	tctctctagtcttttcgctccatgg	W11964
25294	acttctcatagatgtgatcctcaaa	W41701	67898	cgccatctacaggccaagaagaagt	X62933	110502	tctagtcttttcgctccatggttga	W11964
25295	tcatgtcaacagactgtcggacatc	W41701	67899	atttattgctgccttaaccacaggt	X62933	110503	tagtcttttcgctccatggttgatg	W11964
25296	atgtcaacagactgtcggacatccg	W41701	67900	tgctgccttaaccacaggtttcgct	X62933	110504	agtcttttcgctccatggttgatga	W11964

TABLE 1

SEQ ID NO	sequence	DBAxnID
25297	gtcaacagactgtcggacatccgcc	W41701
25298	tcaacagactgtcggacatccgcca	W41701
25299	caacagactgtcggacatccgccac	W41701
25300	cactgcttcaggcacacgcacagtc	W41701
25301	ctgcttcaggcacacgcacagtcat	W41701
25302	cttcaggcacacgcacagtcatatt	W41701
25303	cttattacccgggcagtgccgccat	W75072
25304	tattacccgggcagtgccgccatgc	W75072
25305	atgtttgccgcctggcgtgacgccc	W75072
25306	tgtttgccgcctggcgtgacgccct	W75072
25307	gacgccctctagcctcgctgtagag	W75072
25308	acgccctctagcctcgctgtagaga	W75072
25309	gccctctagcctcgctgtagagact	W75072
25310	tatttttctgatggctaagcctgtt	W75072
25311	atttttctgatggctaagcctgttg	W75072
25312	tttttctgatggctaagcctgttgc	W75072
25313	ttttctgatggctaagcctgttgca	W75072
25314	tttctgatggctaagcctgttgcag	W75072
25315	attacccgggcagtgccgccatgca	W75072
25316	ttctgatggctaagcctgttgcaga	W75072
25317	ttacccgggcagtgccgccatgcat	W75072
25318	tacccgggcagtgccgccatgcatc	W75072
25319	gcagtgccgccatgcatccttgatg	W75072
25320	cttgatgtttgccgcctggcgtgac	W75072
25321	ttgatgtttgccgcctggcgtgacg	W75072
25322	tgatgtttgccgcctggcgtgacgc	W75072
25323	gatgtttgccgcctggcgtgacgcc	W75072
25324	gaactatagccatctaccgaaagca	D30743
25325	agatatttttgctcttgctctcaca	D30743
25326	gttgttgtctgcatctagaaagagc	D30743
25327	agaactcaagaaagcccaaatggca	D30743
25328	agcccaaatggcagccaaagttgca	D30743
25329	agccaaagttgcagctgaggaacgg	D30743
25330	agttgcagctgaggaacgggcactc	D30743
25331	cttcacagatcggatggccactaga	D30743
25332	agatcggatggccactagatccacc	D30743
25333	tagaacttctcgacttattggaaag	D30743
25334	gaaccgctctgtcagccttactata	D30743
25335	tactatatactgaacgctcacattc	D30743
25336	tctcacagtcgtatgtgctgctggt	D30743
25337	atgtgctgctggtgctgaacccctt	D30743
25338	gttacctcggatcccacaagtgctt	D30743
25339	cccacaagtgctttcccaggaggtg	D30743
25340	catgattcatcctgacccagagaga	D30743
25341	tcatcctgacccagagagaaggcct	D30743
25342	ttcagcaatggagctggtgaagcat	D30743
25343	ttcagtgttgttgtctgcatctaga	D30743
25344	tctgacgtcgggaggccagagatca	W74874
25345	tgacgtcgggaggccagagatcaga	W74874
25346	gaccctggttcctctgcatgaggat	W74874
25347	accctggttcctctgcatgaggatg	W74874
25348	ccctggttcctctgcatgaggatga	W74874
25349	cctggttcctctgcatgaggatgaa	W74874
25350	tggttcctctgcatgaggatgaaga	W74874
25351	ggttcctctgcatgaggatgaagaa	W74874
25352	gttcctctgcatgaggatgaagaaa	W74874
25353	ttcctctgcatgaggatgaagaaat	W74874
25354	tcctctgcatgaggatgaagaaatg	W74874
25355	aaatgaaccggatgcacgaaagcat	W74874
25356	ttcactgctttgaaggcgtgactgc	W74874
25357	tcactgctttgaaggcgtgactgcc	W74874
25358	tgactatgaccctggttcctctgca	W74874
25359	gactatgaccctggttcctctgcat	W74874
25360	actatgaccctggttcctctgcatg	W74874
25361	tatgaccctggttcctctgcatgag	W74874
25362	atgaccctggttcctctgcatgagg	W74874
25363	tgaccctggttcctctgcatgagga	W74874
25364	ctgcctgcatacactactctacact	W75073

SEQ ID NO	sequence	DBAxnID
67901	cttaaccacaggtttcgctctggat	X62933
67902	gtcaaccggtgtcacaccaaggaga	X62933
67903	cggtgtcacaccaaggagactttgt	X62933
67904	cacaccaaggagactttgttcatga	X62933
67905	actttgttcatgacaggggatatga	X62933
67906	gatatgacccactctgaggctacca	X62933
67907	tctgaggctaccaatgggcaggttg	X62933
67908	gctggaccctgaagtcttgagcttg	X62933
67909	taccacctctacttcatcctgggga	X62933
67910	ttcatcctggggaccttccaagagg	X62933
67911	gacatctactaccgcaagtttatcc	X62933
67912	tactaccgcaagtttatccagcagg	X62933
67913	cgcaagtttatccagcaggtctacc	X62933
67914	cagcaggtctacctggcactcttct	X62933
67915	ctggcactcttctggctggccatga	X62933
67916	ctcttctggctggccatgagttcca	X62933
67917	tctgaccgttaccatgagcaagtct	X62934
67918	cgttaccatgagcaagtctctgcca	X62934
67919	tacaaggtcagccgcctggagacca	X62934
67920	gtcagccgcctggagaccaccatct	X62934
67921	acctccaatggctcctctcgaagca	X62934
67922	aatggctcctctcgaagcaactcga	X62934
67923	cgaagcaactcgaagaccatgacag	X62934
67924	aactcgaagaccatgacagaaagct	X62934
67925	tccagcttctactctaacattctgg	X62934
67926	ttctactctaacattctggcctaag	X62934
67927	tctaacattctggcctaagcagcaa	X62934
67928	attctggcctaagcagcaagacaca	X62934
67929	atgatgatcgtggttgtgtgtacct	X62934
67930	tactgctgcctcaatgacaggttcc	X62934
67931	cgtctgggcttcaagcatgcctttc	X62934
67932	gcctttcgctgctgccctttcatca	X62934
67933	cgctgctgccctttcatcagtgctg	X62934
67934	tgcccttcatcagtgctggtgatt	X62934
67935	tacctccagacccagagcagcgtgt	X62934
67936	cagacccagagcagcgtgtacaagg	X62934
67937	gagctgtttgtcatggcccgagaac	Z54219
67938	ctgtttgtcatggcccgagaacatg	Z54219
67939	aatcagctggatggctttgaggcca	Z54219
67940	ggctttgaggccaccaagaatatca	Z54219
67941	gaggccaccaagaatatcaaggtta	Z54219
67942	attgatatcctggactctgccctgc	Z54219
67943	atcctggactctgccctgcttcgtc	Z54219
67944	ctgcttcgtcctgggaggattgaca	Z54219
67945	cggcgtgtccacgtcactcaggagg	Z54219
67946	cacgtcactcaggaggactttgaga	Z54219
67947	gtcactcaggaggactttgagatgg	Z54219
67948	aacatgtccatcaagaagctatgga	Z54219
67949	atggcccgagaacatgctccatcca	Z54219
67950	gcccgagaacatgctccatccatca	Z54219
67951	gaacatgctccatccatcatcttca	Z54219
67952	gctccatccatcatcttcatggacg	Z54219
67953	gactctattggctcctcacggctgg	Z54219
67954	tctattggctcctcacggctggagg	Z54219
67955	gtacagcgcacgatgctggaactgc	Z54219
67956	ctcaatcagctggatggctttgagg	Z54219
67957	tttcatgggaagccagtttgacagg	AA107514
67958	agtttgacaggcattactgtggcaa	AA107514
67959	taacgcatacacaactacttgtctt	AA107514
67960	acgcatacacaactacttgtcttct	AA107514
67961	cgcatacacaactacttgtcttctg	AA107514
67962	gcatacacaactacttgtcttctgg	AA107514
67963	catacacaactacttgtcttctggt	AA107514
67964	tgaagcagtaagcgccgccgaggac	AA107514
67965	aagcagtaagcgccgccgaggactc	AA107514
67966	agcagtaagcgccgccgaggactca	AA107514
67967	cagtaagcgccgccgaggactcagc	AA107514
67968	agtaagcgccgccgaggactcagct	AA107514

SEQ ID NO	sequence	DBAxnID
110505	aatcaattcattcaaacctggctgg	W11964
110506	ttttcgctccatggttgatgaagcg	W11964
110507	tcaattcattcaaacctggctgggt	W11964
110508	caattcattcaaacctggctgggta	W11964
110509	ttcattcaaacctggctgggtaaat	W11964
110510	cattcaaacctggctgggtaaatca	W11964
110511	tcaaacctggctgggtaaatcaccg	W11964
110512	cacatgctggagtctctctagtctt	W11964
110513	acatgctggagtctctctagtcttt	W11964
110514	tgagacctcccaggcagtgcactca	W11975
110515	agacctcccaggcagtgcactcatc	W11975
110516	ccttcctcatggctggtgaccatcc	W11975
110517	ttcctcatggctggtgaccatcctc	W11975
110518	cctcatggctggtgaccatcctcat	W11975
110519	tcatggctggtgaccatcctcatcg	W11975
110520	tgtgtgcacactagctccagttgtt	W11975
110521	tgtgcacactagctccagttgttgt	W11975
110522	tgcacactagctccagttgttgtcc	W11975
110523	agttgttgtccaggatgcgcggtat	W11975
110524	ttgttgtccaggatgcgcggtatcg	W11975
110525	gttgtccaggatgcgcggtatcgac	W11975
110526	ctcccaggcagtgcactcatcagca	W11975
110527	cccaggcagtgcactcatcagcaag	W11975
110528	ggcagtgcactcatcagcaagtacc	W11975
110529	cagtgcactcatcagcaagtacctg	W11975
110530	gtacctgaccttcctcatggctggt	W11975
110531	acctgaccttcctcatggctggtga	W11975
110532	ctgaccttcctcatggctggtgacc	W11975
110533	gaccttcctcatggctggtgaccat	W11975
110534	gccgtgttcatctgcctgctggaac	D10712
110535	ttcatctgcctgctggaacccacac	D10712
110536	agctctcaactgtgtactttatatg	D10712
110537	tttgctttccaggatcaagatgttt	D10712
110538	attatctccaaaagtggaacaggag	D10712
110539	cttttcgaagtgactcagaaagtct	D10712
110540	ctgtggccttttcttggcagctatg	D10712
110541	ccttttcttggcagctatggccgca	D10712
110542	cttggcagctatggccgcattatga	D10712
110543	agctatggccgcattatgacttgta	D10712
110544	tcccttacatgtcactcaaacaacg	D10712
110545	cactcaaacaacgttaaaatgcaga	D10712
110546	tgcctgctggaacccacactttgat	D10712
110547	ctggaacccacactttgatagggct	D10712
110548	cccacactttgatagggctggacta	D10712
110549	tactcaccgtttatattcttgtcgc	D10712
110550	ccgtttatattcttgtcgcctcttg	D10712
110551	atattcttgtcgcctcttgcccaaa	D10712
110552	ttgtcgcctcttgcccaaagctctc	D10712
110553	cctcttgcccaaagctctcaactgt	D10712
110554	gactgtcttcaccgtgtttatgatt	M81445
110555	cttcaccgtgtttatgatttctgtg	M81445
110556	catgcttagtcgcttagtcggcaga	M81445
110557	tagtcgcttagtcggcagagctcag	M81445
110558	cggcagagctcagccaccagcagtt	M81445
110559	gccaccagcagttcccaagacaaac	M81445
110560	gacaaacattcccatctaaaatgcc	M81445
110561	catctaaaatgccaccatttgaagt	M81445
110562	gaggcctcctatgaaactccagaag	M81445
110563	caaaggcccaattctatgcctgtat	M81445
110564	cccaattctatgcctgtattaatgg	M81445
110565	tctatgcctgtattaatgggttcta	M81445
110566	tatgatttctgtgtctggaatttgc	M81445
110567	ttctgtgtctggaatttgcattctg	M81445
110568	aatttgcattctgctaaatatcaca	M81445
110569	agagctgtgctatttgttcgttagg	M81445
110570	gtgctatttgttcgttaggtattgc	M81445
110571	ctaatgcattgcctggctgctagag	M81445
110572	cattgcctggctgctagagcaaaga	M81445

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25365	gcctgcatacactactctacactgt	W75073	67969	gtttgacaggcattactgtggcaag	AA107514	110573	gatgaggcaacccatgcttagtcgc	M81445
25366	acactgtgcactcaggcacgcgcga	W75073	67970	aggcattactgtggcaagtgttgtc	AA107514	110574	actatcaggtactctatctacaagg	W97077
25367	tgtgcactcaggcacgcgcgaccta	W75073	67971	cattactgtggcaagtgttgtctga	AA107514	110575	tactctatctacaaggacccagcag	W97077
25368	cacgcgcgacctacaccaacgatga	W75073	67972	actgtggcaagtgttgtctgacttc	AA107514	110576	gtccacaacagtgtgtacacggccc	W97077
25369	tgacctcaaggtgcactcgcttgct	W75073	67973	tttattaacgcatacacaactactt	AA107514	110577	tacacggccctgttcctggccatcg	W97077
25370	aggtgcactcgcttgctgagctcca	W75073	67974	tattaacgcatacacaactacttgt	AA107514	110578	ctgttcctggccatcgacagtggca	W97077
25371	gtgcactcgcttgctgagctccacc	W75073	67975	attaacgcatacacaactacttgtc	AA107514	110579	ttcctggccatcgacagtggcaacc	W97077
25372	gcactcgcttgctgagctccaccat	W75073	67976	ttaacgcatacacaactacttgtct	AA107514	110580	gacagtggcaaccctcctgcaactg	W97077
25373	actcgcttgctgagctccaccatca	W75073	67977	ctcagtcggcggaagacccttctag	X57139	110581	actggcaccgggactctgctgataa	W97077
25374	tcgcttgctgagctccaccatcact	W75073	67978	cggaagacccttctagtagtcacat	X57139	110582	actctgctgataaccctagaggaca	W97077
25375	gcttgctgagctccaccatcactgg	W75073	67979	gccattttggtctcaaaatgagagg	X57139	110583	actgtggctgaggtctgcgatgatg	W97077
25376	ctgcatacactactctacactgtgc	W75073	67980	tcaaataacgtgttccctggccatc	X57139	110584	gatgatgccagaaacctcagcgtgg	W97077
25377	ggttcatgacacagaacacgccgac	W75073	67981	aacgtgttccctggccatctgaaga	X57139	110585	aacctcagcgtggtcattctggggg	W97077
25378	gcatacactactctacactgtgcac	W75073	67982	ttccctggccatctgaagactagag	X57139	110586	atctacaaggacccagcaggctggc	W97077
25379	atacactactctacactgtgcactc	W75073	67983	actagagccagtatgcaggtgtcac	X57139	110587	gacccagcaggctggctgagtatca	W97077
25380	acactactctacactgtgcactcag	W75073	67984	aagccggtgatgtcttcaggattca	X57139	110588	tggctgagtatcaaccccatcaatg	W97077
25381	actactctacactgtgcactcaggc	W75073	67985	atgtcttcaggattcaagtttccat	X57139	110589	ctgagtatcaaccccatcaatggaa	W97077
25382	tactctacactgtgcactcaggcac	W75073	67986	gatccctaaacctgacaatattcaa	X57139	110590	cccatcaatggaacggtggacacca	W97077
25383	ctctacactgtgcactcaggcacgc	W75073	67987	taaacctgacaatattcaaattcca	X57139	110591	gacaccacagctgtgttggaccggg	W97077
25384	ctacactgtgcactcaggcacgcgc	W75073	67988	tattcaaattccatcttttcaataa	X57139	110592	accacagctgtgttggaccgggagt	W97077
25385	gcacggctggaggttttggctcgcc	W75077	67989	aagacccttctagtagtcacatggg	X57139	110593	ccattcgtccacaacagtgtgtaca	W97077
25386	gaggttttggctcgcccatggatat	W75077	67990	caggttctgccatggaggaatacag	X57139	110594	aaggtgtaccactgtgaggcgactg	AA108827
25387	atctttgatatgttctttggaggag	W75077	67991	actttaaatcaaagcatccgagcag	X57139	110595	actgtttttgcacgaaagcatccat	AA108827
25388	gctctcagtgaccttagaagactta	W75077	67992	aatcaaagcatccgagcagcatcag	X57139	110596	gctccataccaaacaggcagtgagc	AA108827
25389	ctctcagtgaccttagaagacttat	W75077	67993	agcatccgagcagcatcagcagcga	X57139	110597	taccaaacaggcagtgagcatgttt	AA108827
25390	cttatatactggtgcaacaaggaaa	W75077	67994	cgagcagcatcagcagcgaaagctt	X57139	110598	catgtttgtgagagccgtggaagaa	AA108827
25391	ttatatactggtgcaacaaggaaac	W75077	67995	gcatcagcagcgaaagcttccacga	X57139	110599	gtttgtgagagccgtggaagaagcc	AA108827
25392	tatatactggtgcaacaaggaaact	W75077	67996	gcggccattttggtctcaaaatgag	X57139	110600	cacagtggtctatgggggcaaggtc	AA108827
25393	atatactggtgcaacaaggaaactg	W75077	67997	aagaggaagcccattctgtaatggg	X95818	110601	caaggtcatggaccaccctggcaat	AA108827
25394	aggttttggctcgcccatggatatc	W75077	67998	aggaagcccattctgtaatggggca	X95818	110602	ggtcatggaccaccctggcaattac	AA108827
25395	ggttttggctcgcccatggatatct	W75077	67999	cactgggaggctggctctggagccc	X95818	110603	catggaccaccctggcaattacgtg	AA108827
25396	gttttggctcgcccatggatatctt	W75077	68000	ccaatcctggaccctctgctgtgtc	X95818	110604	caattacgtggaacccaccattgtg	AA108827
25397	ttttggctcgcccatggatatcttt	W75077	68001	ctgctgtgtctgtgacgttggtagt	X95818	110605	caccattgtgaccggtcttgcccat	AA108827
25398	tttggctcgcccatggatatctttg	W75077	68002	ctgtgtctgtgacgttggtagtgcc	X95818	110606	gagaagtgcctactcacagatccgt	AA108827
25399	ttggctcgcccatggatatctttga	W75077	68003	tgacgttggtagtgcctgtgatcgt	X95818	110607	cattgtgaccggtcttgcccatgat	AA108827
25400	cgcccatggatatctttgatatgtt	W75077	68004	ctgtgatcgtgtgttgccattttgt	X95818	110608	aagtgcctactcacagatccgtgtc	AA108827
25401	tatctttgatatgttctttggagga	W75077	68005	tcgtgtgttgccattttgtctgact	X95818	110609	ggaccccaatatcctctatggaccg	AA108827
25402	taggcgccacttgcgaatctttcta	U07982	68006	gccattttgtctgactgtggcccct	X95818	110610	caatatcctctatggaccgctccat	AA108827
25403	ccacttgcgaatctttctacttcag	U07982	68007	ctactttcctgtgccttcggtattg	X95818	110611	tatcctctatggaccgctccatacc	AA108827
25404	attactgaagctccagcagcaagtg	U07982	68008	tgtgccttcggtattgtttgaagac	X95818	110612	ctatggaccgctccatacccaaacag	AA108827
25405	gaagctccagcagcaagtgccttac	U07982	68009	cccattctgtaatggggcagaaaag	X95818	110613	tggaccgctccatacccaaacaggca	AA108827
25406	gctccagcagcaagtgccttacaat	U07982	68010	gaaatgtcccttactgactccctca	X95818	110614	accgctccataccaaacaggcagtg	AA108827
25407	ccagcagcaagtgccttacaattaa	U07982	68011	atgtcccttactgactccctcagaa	X95818	110615	ggaagagccgcctatagaagaggct	M91243
25408	ttaattaacttctgtgtgaagcgaa	U07982	68012	tcccttactgactccctcagaagag	X95818	110616	aaccaagcaagggctgtctgctgag	M91243
25409	attaacttctgtgtgaagcgaaaga	U07982	68013	cttactgactccctcagaagagggc	X95818	110617	caccatatgacctggtgcagaagaa	M91243
25410	aacccctgtttgaatacagctgact	U07982	68014	gactccctcagaagagggctagata	X95818	110618	ctccagccaatacagaccaagataa	M91243
25411	aatacagctgactacaaccgagtat	U07982	68015	tccctcagaagagggctagataatc	X95818	110619	ccaatacagaccaagataaacccag	M91243
25412	acagctgactacaaccgagtatcgc	U07982	68016	tctgtcccggagcactgggaggctg	X95818	110620	cagaccaagataaacccagctggtg	M91243
25413	gctgactacaaccgagtatcgcata	U07982	68017	ctgatggaccactccaggaccactc	U05673	110621	aacccagctggtgccaatatacttt	M91243
25414	cttgcgaatctttctacttcagcgc	U07982	68018	accactctccagcgggagatccacg	U05673	110622	atactttgagtcttatgtgtccctt	M91243
25415	ctacaaccgagtatcgcatagcttc	U07982	68019	gttgtcaaccccattgtctatgcct	U05673	110623	ctagaacaatgcacgctgtacaact	M91243
25416	gcgaatctttctacttcagcgcagc	U07982	68020	attgtctatgcctacaggaaccgag	U05673	110624	acctgtatgcgctgtcaaggtaaac	M91243
25417	ctttctacttcagcgcagcagttat	U07982	68021	cgctacagtttccacaagatcatct	U05673	110625	gtcctagtgacgttcctatgcctgc	M91243
25418	tctacttcagcgcagcagttatcgc	U07982	68022	cacaagatcatctccagatatgttc	U05673	110626	tgcctgccctggtcttctatcccaa	M91243
25419	acttcagcgcagcagttatcgcttc	U07982	68023	atcatctccagatatgttctctgcc	U05673	110627	accctcactctgtccggagctgaca	M91243
25420	cagcagttatcgcttctgttttcca	U07982	68024	tccagatatgttctctgccaggccg	U05673	110628	cctggtcttctatcccaactgctgt	M91243
25421	cagttatcgcttctgttttccactt	U07982	68025	tatgttctctgccaggccgagacca	U05673	110629	tccggagctgacaaccgatgacaat	M91243
25422	ttaattactgaagctccagcagcaa	U07982	68026	gcgcagtctactctcagtctgggct	U05673	110630	gctgacaaccgatgacaatcggccc	M91243
25423	gccttcttcttgatcttaaagatcg	D10061	68027	tctactctcagtctgggcttatgac	U05673	110631	tgacaatcggcccttgagcaggctg	M91243
25424	cttcttcttgatcttaaagatcgtg	D10061	68028	ctcagtctgggcttatgacctaggc	U05673	110632	tcggcccttgagcaggctgagtaaa	M91243
25425	tgtgcagagtccattcccacatctt	D10061	68029	ctccagcgggagatccacgcagcca	U05673	110633	agccagcagcagggccaggtcagat	M91243
25426	cagagtccattcccacatctttcct	D10061	68030	cgggagatccacgcagccaagtcac	U05673	110634	cagcagggccaggtcagatgatctc	M91243
25427	gagtccattcccacatctttcctca	D10061	68031	gcagccaagtcactggctatgatcg	U05673	110635	gtcagatgatctcaccatatgacct	M91243
25428	ccattcccacatctttcctcaagta	D10061	68032	atgatcgtgggcatttttgctctgt	U05673	110636	ctgtagttccgtgacctgaaatgga	AA170444
25429	tcccacatctttcctcaagtatctt	D10061	68033	atttttgctctgtgttggctcccag	U05673	110637	ttccgtgacctgaaatggacctgtt	AA170444
25430	ccacatctttcctcaagtatcttct	D10061	68034	gctctgtgttggctcccagtgcatg	U05673	110638	gctctgctctattcttcaggatggt	AA170444
25431	acatctttcctcaagtatcttctat	D10061	68035	ctcccagtgcatgccatcaactgta	U05673	110639	ctgctctattcttcaggatggtcat	AA170444
25432	tttatcatgaattccctttttaatca	D10061	68036	gacaagcccaagtgggtgatgaatg	U05673	110640	aagcaggctcaacacctgtgcctca	AA170444

TABLE 1

SEQ ID NO	sequence	DBAxnID
25433	tatcatgaattccctttttaatcaac	D10061
25434	tcatgaattccctttttaatcaactg	D10061
25435	tcttcttgatcttaaagatcgtgta	D10061
25436	tgactgaaaccattttcccatcatc	D10061
25437	tgaaaccattttcccatcatccttt	D10061
25438	ttcccatcatcctttgttctgacca	D10061
25439	cccatcatcctttgttctgaccatt	D10061
25440	catcatcctttgttctgaccattct	D10061
25441	tctttgtacccttaagagatccat	D10061
25442	tgtacccttaagagatccatcttt	D10061
25443	gtatttaccaatggtgattggctac	U34071
25444	attggctacatgatgtcctaagagc	U34071
25445	acacaaagccagtatgatggtgttc	U34071
25446	gcctccaaccagcacttggtgagga	U34071
25447	ctccaaccagcacttggtgaggata	U34071
25448	aaccagcacttggtgaggataaggc	U34071
25449	ggacacttcaattcaatctaaaaca	U34071
25450	ttcaattcaatctaaaacaagggat	U34071
25451	caattcaatctaaaacaagggatgt	U34071
25452	tattgaagcatgctccccagactcc	U34071
25453	ttgaagcatgctccccagactccct	U34071
25454	ccccagactcccttaatgcctgaag	U34071
25455	tggctacatgatgtcctaagagcaa	U34071
25456	gctacatgatgtcctaagagcaatt	U34071
25457	caattgatgaactgtcctggtgaca	U34071
25458	attgatgaactgtcctggtgacaaa	U34071
25459	atgaactgtcctggtgacaaactgg	U34071
25460	gttattttacacaaagccagtatga	U34071
25461	tattttacacaaagccagtatgatg	U34071
25462	ttacacaaagccagtatgatggtgt	U34071
25463	ctggcccagccatttctcgcatcaa	W75122
25464	cagccatttctcgcatcaacaatgc	W75122
25465	tgctcctatatccacgagatcgaca	W75122
25466	tatatccacgagatcgacatctcta	W75122
25467	cacgagatcgacatctctatgatcc	W75122
25468	atgatccttgcagaagccatcagga	W75122
25469	cttgcagaagccatcaggagtacct	W75122
25470	gaagccatcaggagtacctcacaat	W75122
25471	atcaggagtacctcacaatgcgaga	W75122
25472	agtacctcacaatgcgagaatatgt	W75122
25473	tctcctacatgttcagccatgagcc	W75122
25474	acatgttcagccatgagcctctata	W75122
25475	tttctcgcatcaacaatgcatgcta	W75122
25476	tgttcagccatgagcctctataata	W75122
25477	gcatcaacaatgcatgctaccgaag	W75122
25478	acaatgcatgctaccgaagcagtag	W75122
25479	catgctaccgaagcagtagtagtta	W75122
25480	gtagttaccaataccatacctcagg	W75122
25481	accaataccatacctcaggaggaca	W75122
25482	accatacctcaggaggacaagatga	W75122
25483	aagatgaaacactgctcctatatcc	W75122
25484	tctaggctgctgtttccacctcttg	D63707
25485	ctgtttccacctcttgacacctctg	D63707
25486	atccataaatccttgttgatttttg	D63707
25487	taacatctagactttggagtttcca	D63707
25488	aatgtctctttagatctcagggcag	D63707
25489	ttagatctcagggcagaaatgataa	D63707
25490	ataacctggggagacctgctgcctt	D63707
25491	tcatctacttcccaatgcttgaggc	D63707
25492	acttcccaatgcttgaggccagcct	D63707
25493	tgcttgaggccagcctgtagtcaga	D63707
25494	ttgaggccagcctgtagtcagatat	D63707
25495	cagatatttcacccagacataaagg	D63707
25496	acctctgccctgctgcaggcattct	D63707
25497	gccctgctgcaggcattctagacct	D63707
25498	ctgcaggcattctagacctttgggg	D63707
25499	atcgtctacctgagctcctgtctcc	D63707
25500	ccacacttattttcccatctgccta	D63707

SEQ ID NO	sequence	DBAxnID
68037	cagagcctaacgcagaggaagggac	
68038	gagcctaacgcagaggaagggacct	
68039	actcggatccacgaagcccaccgag	
68040	tcggatccacgaagcccaccgagct	
68041	ccgccggtctgggcagcatgagacg	
68042	cgccggtctgggcagcatgagacgc	
68043	catgagacgcgcggcgctctggctc	
68044	ggcgaaacctacagccctcgctcga	
68045	gcgaaacctacagccctcgctcgag	
68046	agagcaatcagcagagccggcccgg	
68047	aatcagcagagccggcccggagctc	
68048	atcagcagagccggcccggagctcc	
68049	caaccggcaactcggatccacgaag	
68050	cggcaactcggatccacgaagccca	
68051	ggcaactcggatccacgaagcccac	
68052	gagcctaacgcagaggaagggacct	
68053	cggcgaaacctacagccctcgctcg	
68054	gcaactcggatccacgaagcccacc	
68055	caactcggatccacgaagcccaccg	
68056	actcggatccacgaagcccaccgag	
68057	tcggatccacgaagcccaccgagct	
68058	cggatccacgaagcccaccgagctc	
68059	ggatccacgaagcccaccgagctcc	
68060	gatccacgaagcccaccgagctccc	
68061	ccgccggtctgggcagcatgagacg	
68062	cgccggtctgggcagcatgagacgc	
68063	catgagacgcgcggcgctctggctc	
68064	ggcgaaacctacagccctcgctcga	
68065	gcgaaacctacagccctcgctcgag	
68066	agagcaatcagcagagccggcccgg	
68067	aatcagcagagccggcccggagctc	
68068	atcagcagagccggcccggagctcc	
68069	caaccggcaactcggatccacgaag	
68070	cggcaactcggatccacgaagccca	
68071	ggcaactcggatccacgaagcccac	
68072	cattgactccctgcgaaaactgtca	AA066229
68073	ctccctgcgaaaactgtcaaaacat	AA066229
68074	agttgaccagtccctccataccaat	AA066229
68075	cctccataccaatgcgtcgctggat	AA066229
68076	caatgcgtcgctggatgccgcgagc	AA066229
68077	ggatgccgcgagcgaatacgctaaa	AA066229
68078	atacgctaaatactgcacagaaatt	AA066229
68079	cgctaaatactgcacagaaattttg	AA066229
68080	tgcagctacgccaggcacaaatatg	AA066229
68081	tacgccaggcacaaatatgccagct	AA066229
68082	gccagctacctttggacatttggca	AA066229
68083	agctacctttggacatttggcagga	AA066229
68084	ttatagagacggacaccctatcaca	AA066229
68085	agacggacaccctatcacagacgag	AA066229
68086	tatcacagacgagctgctggagaag	AA066229
68087	cacagacgagctgctggagaagctt	AA066229
68088	gcttgtggcttcgagactggtcaac	AA066229
68089	cacaggtcttctgacgcttcgccaa	AA066229
68090	tcttctgacgcttcgccaaattgtt	AA066229
68091	gcttcgccaaattgttttgagcaaa	AA066229
68092	cacggccactctgcaggtctgtggc	X74504
68093	cactctgcaggtctgtggctcagcc	X74504
68094	cgtttgggcagtgggtctcatccat	X74504
68095	tgttcggtggttcttcatatacgag	X74504
68096	atacgaggaccctgtgtgcattttc	X74504
68097	ggaccctgtgtgcattttctcagtc	X74504
68098	cattttctcagtcctgtagtgtgga	X74504
68099	cctgtagtgtggaccctgggatctc	X74504
68100	gtgtggaccctgggatctcttagac	X74504
68101	cttgcccaggattgtgggttctgag	X74504
68102	gcaagacatcttcaaccagtcccgt	X74504
68103	tcccattgcccttgttatggtatac	X74504
68104	ctgatttgtgtcctcatactcagct	X74504

SEQ ID NO	sequence	DBAxnID
110641	caggctcaacacctgtgcctcaggg	AA170444
110642	gctcaacacctgtgcctcagggtga	AA170444
110643	cacctgtgcctcagggtgacagaac	AA170444
110644	ctgtgcctcagggtgacagaactgg	AA170444
110645	aaccaagcctggctgaaggttctgg	AA170444
110646	caagcctggctgaaggttctggtgt	AA170444
110647	gcctggctgaaggttctggtgtttg	AA170444
110648	tggacctgttgggaccgcctgaagg	AA170444
110649	acactgaagtcactgctggcccatc	AA170444
110650	ctgaagtcactgctggcccatctcc	AA170444
110651	tcactgctggcccatctccaggaag	AA170444
110652	ctgctggcccatctccaggaagaac	AA170444
110653	catctccaggaagaacatggactga	AA170444
110654	caccaccaggctctgctctattctt	AA170444
110655	caggctctgctctattcttcaggat	AA170444
110656	gcgccaggtttccgcagcagcccag	AA048098
110657	ctccacgtgagcctcgctaacggca	AA048098
110658	tggactatgactcggtgcagccata	AA048098
110659	tatgactcggtgcagccatacttca	AA048098
110660	atgactcggtgcagccatacttcat	AA048098
110661	gactcggtgcagccatacttcatgt	AA048098
110662	actcggtgcagccatacttcatgtg	AA048098
110663	tcggtgcagccatacttcatgtgcg	AA048098
110664	cggtgcagccatacttcatgtgcga	AA048098
110665	tgcagccatacttcatgtgcgacga	AA048098
110666	agccatacttcatgtgcgacgatga	AA048098
110667	acttcatgtgcgacgatgaggagga	AA048098
110668	ctcgctaacggcaaccgcgacctgg	AA048098
110669	tcgctaacggcaaccgcgacctgga	AA048098
110670	gctaacggcaaccgcgacctggact	AA048098
110671	aacggcaaccgcgacctggactatg	AA048098
110672	acggcaaccgcgacctggactatga	AA048098
110673	gcgacctggactatgactcggtgca	AA048098
110674	acctggactatgactcggtgcagcc	AA048098
110675	ctggactatgactcggtgcagccat	AA048098
110676	gctgaagcactacgggcctggctgg	X58990
110677	catggccaatgcaggcaaagacacc	X58990
110678	cgccattgccaaggagtagagagcc	X58990
110679	atccctctaagcagctgtctgtgtg	X58990
110680	ctaagcagctgtctgtgtgggtcct	X58990
110681	tagccagtcacaaggttctgtgcca	X58990
110682	aggttctgtgccaccctggccctag	X58990
110683	accctggccctagtgcttccatctg	X58990
110684	gccctagtgcttccatctgatgggg	X58990
110685	gtgcttccatctgatggggtgacca	X58990
110686	ctcacattccacaggcctgattttt	X58990
110687	aaactaccaatgctgatcaataaag	X58990
110688	ctcacagttcttcataaccacagtc	X58990
110689	gttcttcataaccacagtcaagacc	X58990
110690	cataaccacagtcaagacctcctgg	X58990
110691	cacagtcaagacctcctggctggat	X58990
110692	ctcctggctggatggcaagcatgtg	X58990
110693	caagacagacagccgggacaagcca	X58990
110694	tgtcgactccggcaagatcgaagtg	X58990
110695	acccttcgccattgccaaggagtag	X58990
110696	gaccagagccacctctgaggggtca	AA013783
110697	cagagccacctctgaggggtcaaag	AA013783
110698	accctgcaaactgtcctctacagtc	AA013783
110699	ctgcaaactgtcctctacagtcttc	AA013783
110700	actgtcctctacagtcttcaggagg	AA013783
110701	ctctacagtcttcaggaggagcaag	AA013783
110702	gagcaagccaggctcaagatgaggc	AA013783
110703	caagccaggctcaagatgaggctgc	AA013783
110704	cccggagccaagatcccattctcag	AA013783
110705	gccaagatcccattctcagtacctg	AA013783
110706	aagatcccattctcagtacctgaag	AA013783
110707	atcccattctcagtacctgaagttc	AA013783
110708	gagtttagtccttcagaactcttca	AA013783

TABLE 1

SEQ ID NO	sequence	DBAxnID
25501	ttattttcccatctgcctacattca	D63707
25502	tcccatctgcctacattcaagaaac	D63707
25503	catctgcctacattcaagaaacagg	D63707
25504	ggcacattctctattggtcagaagt	D37801
25505	ttctctattggtcagaagtgtgtca	D37801
25506	cttctagaatgtccgatctaggact	D37801
25507	taggactagctcccaaatgatactg	D37801
25508	ccaaatgatactgtcctgccatcat	D37801
25509	gatactgtcctgccatcattctgat	D37801
25510	tttgactgtttgtggtgagcatcgc	D37801
25511	ctagtttccatctcaagcctgtgac	D37801
25512	tccatctcaagcctgtgacggacag	D37801
25513	ttgtcaagtttgccccaatggtacg	D37801
25514	ccccaatggtacgctgtttgaagag	D37801
25515	cctgtcacctgagcatttggaaatt	D37801
25516	gaaagtgttcttggcccaggctcag	D37801
25517	gtctcctttgggagatgtggaggac	D37801
25518	caagctggcaggcttaactgaggtg	D37801
25519	cttaactgaggtgtgtcatgttcat	D37801
25520	tgtgtgtccgtgccccccgaatccta	D37801
25521	aatcctaggctgccgcttcacagtg	D37801
25522	aggctgccgcttcacagtgtagacc	D37801
25523	ccgcttcacagtgtagaccttctag	D37801
25524	tctgagcctgggctggcatataact	U27267
25525	tgagcctgggctggcatataacttt	U27267
25526	acttactcaacaaactgtatactat	U27267
25527	actcaacaaactgtatactatttat	U27267
25528	tactatttgggccactacgtatata	U27267
25529	ctatttgggccactacgtatatatt	U27267
25530	aacatacttaacatgtttgaatatg	U27267
25531	taatgaattcatcacatccattatt	U27267
25532	atgaattcatcacatccattatttt	U27267
25533	attttaagcctgtacatcttatagt	U27267
25534	taagcctgtacatcttatagtgtct	U27267
25535	agcctgtacatcttatagtgtctca	U27267
25536	agctgctgtgtcatgcagaaacctg	U27267
25537	tcatgcagaaacctgtgtagaatac	U27267
25538	acatttgatgtcttcgtagtatggc	U27267
25539	gatgtcttcgtagtatggcataatg	U27267
25540	taatgtcatgacttactcaacaaac	U27267
25541	gtcatgacttactcaacaaactgta	U27267
25542	catgacttactcaacaaactgtata	U27267
25543	tgacttactcaacaaactgtatact	U27267
25544	taccctcgaaatgtcatcaacaacc	W75163
25545	cctcgaaatgtcatcaacaaccaga	W75163
25546	ttcaacttctacttcctgcttctcg	W75163
25547	aacttctacttcctgcttctcgcct	W75163
25548	tgctcccagttcgtccccgagatga	W75163
25549	ttcgtccccgagatgagacttggcg	W75163
25550	ctctacacctactgggttcctctgg	W75163
25551	tactgggttcctctgggctttgtgc	W75163
25552	tgggttcctctgggctttgtgctgg	W75163
25553	cctctgggctttgtgctggctgtca	W75163
25554	ctgggctttgtgctggctgtcacca	W75163
25555	ggctttgtgctggctgtcaccatca	W75163
25556	aatgtcatcaacaaccagaagtaca	W75163
25557	gtgctggctgtcaccatcatccgtg	W75163
25558	gtcatcaacaaccagaagtacaatt	W75163
25559	atcaacaaccagaagtacaatttct	W75163
25560	gtgttgttcagtcagttcagatact	W75163
25561	ttgttcagtcagttcagatacttct	W75163
25562	cagttcagatacttcttcaacttct	W75163
25563	ttcagatacttcttcaacttctact	W75163
25564	ttcttcaacttctacttcctgcttc	W75163
25565	ctaaacgagctttggcactggaaga	L38281
25566	ttggtttcctgctccaccttcccag	L38281
25567	tggtctgcccacatgacttatccag	L38281
25568	gcccacatgacttatccagacaggg	L38281

SEQ ID NO	sequence	DBAxnID
68105	tgtgtcctcatactcagctcagggt	X74504
68106	tctctctttgtaccaatggagaacg	X74504
68107	cctgggtatgccgtatgtgaacaca	X74504
68108	gaacacacagacctgtttgttgctc	X74504
68109	ctgtttgttgctcaaccccactgcc	X74504
68110	cactgccactgtgtgcacctgactg	X74504
68111	gtgcacctgactgatgagtaggatc	X74504
68112	gattatcgcagcacaggaagagatg	X56123
68113	gtacaagttcttgccttcagagctt	X56123
68114	tgactcccaagtgcctttgcaccct	X56123
68115	ctcccaagtgcctttgcaccctagg	X56123
68116	agtattaacgctccaagagtattat	X56123
68117	ttattaatgctgccgtacctcagtt	X56123
68118	ttaatgctgccgtacctcagtttga	X56123
68119	ctgccgtacctcagtttgaacctgc	X56123
68120	ttgaacctgccagggccccagctgc	X56123
68121	gctcaactcatccctttttgatact	X56123
68122	caactcatccctttttgatactata	X56123
68123	ccagctacctatggggcttgagggt	X56123
68124	cttgccttcagagcttcgagacgag	X56123
68125	cgagcactaaaaaagccctgtgtat	X56123
68126	ctgtgcctgccactaccaaagcctt	X56123
68127	tgcctgccactaccaaagccttctg	X56123
68128	ctgccactaccaaagccttctgggc	X56123
68129	ccaaagccttctgggctgctcagga	X56123
68130	aagccttctgggctgctcaggaccc	X56123
68131	gtgcctgccaaaccctgggcctggc	X56123
68132	accgaagatgttcctcggaagctgc	X81987
68133	gatgttcctcggaagctgctgagcc	X81987
68134	cagctggacagtggcttgctgcttg	X81987
68135	ttgctgcttgtgactgggcctcttg	X81987
68136	ctgcttgtgactgggcctcttgtca	X81987
68137	cttgtgactgggcctcttgtcatca	X81987
68138	gggcctcttgtcatcaacagagttc	X81987
68139	ctgcgcaagcccaggcatcaggagg	X81987
68140	gagatcttcgacacagagaaggaga	X81987
68141	atgtatcctcacaaactggtcttct	X81987
68142	tatcctcacaaactggtcttctaaa	X81987
68143	cctcacaaactggtcttctaaattg	X81987
68144	ggcaagaagcccttcagccagcacg	X81987
68145	aagcccttcagccagcacgtgagaa	X81987
68146	cccttcagccagcacgtgagaaggc	X81987
68147	agaaggctacgctccagcatcactc	X81987
68148	ctgatcatcctcactgggcgccaca	X81987
68149	atcatcctcactgggcgccacaggg	X81987
68150	gttttcctgaagcagctggacagtg	X81987
68151	ttcctgaagcagctggacagtggct	X81987
68152	ctgcaggtggcaggtggttttcaag	U39073
68153	tttcttgatacctgtgtaactggca	U39073
68154	ttcctactgatcatttcaggaaata	U39073
68155	ctactgatcatttcaggaaatatga	U39073
68156	atagttcagctgttggtcttttcag	U39073
68157	gttcagctgttggtcttttcagtta	U39073
68158	cagctgttggtcttttcagttaagg	U39073
68159	gtgatgacttctcaccatgtgattt	U39073
68160	tctcaccatgtgatttgatatctgt	U39073
68161	tgactgattacctcatgttcctggg	U39073
68162	ctgattacctcatgttcctgggtaa	U39073
68163	tgagatgcggtttctctgtgtagcc	U39073
68164	cttgatacctgtgtaactggcatac	U39073
68165	gtaactggcatactggggctagacc	U39073
68166	ctagacctgcatgtggcagtgcaga	U39073
68167	aaatgtttgtcagttctggagtagt	U39073
68168	tgtttgtcagttctggagtagtctc	U39073
68169	ttgtcagttctggagtagtctcgtt	U39073
68170	gatgttgtagccttcctactgatca	U39073
68171	gccttcctactgatcatttcaggaa	U39073
68172	gattgagcaggcggcagcagcccta	U46690

SEQ ID NO	sequence	DBAxnID
110709	tcagaactcttcactgccaaccctg	AA013783
110710	aagccccagcttctgccagacgtga	AA013783
110711	cagcttctgccagacgtgagagcca	AA013783
110712	ctgccagacgtgagagccatgtctg	AA013783
110713	agagccatgtctgtgaccctgcaaa	AA013783
110714	gccatgtctgtgaccctgcaaactg	AA013783
110715	gtgaccctgcaaactgtcctctaca	AA013783
110716	tcatcgcaccatggcggaccgtttg	W12031
110717	catcgcaccatggcggaccgtttgt	W12031
110718	aacacagagatccactttccagcgg	W12031
110719	acacagagatccactttccagcggg	W12031
110720	acagagatccactttccagcgggaa	W12031
110721	cagagatccactttccagcgggaat	W12031
110722	agagatccactttccagcgggaata	W12031
110723	agatccactttccagcgggaataga	W12031
110724	gtaagttcactgggtgacgctggac	W12031
110725	taagttcactgggtgacgctggacg	W12031
110726	aagttcactgggtgacgctggacgg	W12031
110727	agttcactgggtgacgctggacgga	W12031
110728	atcgcaccatggcggaccgtttgtc	W12031
110729	cgcaccatggcggaccgtttgtcgg	W12031
110730	gggctttgcaccaggcaggtgcgta	W12031
110731	gctttgcaccaggcaggtgcgtagc	W12031
110732	ctttgcaccaggcaggtgcgtagca	W12031
110733	tttgcaccaggcaggtgcgtagcat	W12031
110734	tgcaccaggcaggtgcgtagcatga	W12031
110735	gaacacagagatccactttccagcg	W12031
110736	atgtcaccagctttgaaggctccaa	L16894
110737	ccactgccctggacaccaatagttc	L16894
110738	tccaggactgagagtcccagggccc	L16894
110739	agtcccagggccctcactgcaggta	L16894
110740	agggccctcactgcaggtacaagca	L16894
110741	aggttccatgaggtcctgtgggatt	L16894
110742	catgaggtcctgtgggatttcctgt	L16894
110743	ttcctgtgcctactgcagtagcccc	L16894
110744	tgcctactgcagtagccccatctgt	L16894
110745	catctgtcacagtcactcatcaaaa	L16894
110746	tcacagtcactcatcaaaaatcatt	L16894
110747	tcactcatcaaaaatcattaaagtc	L16894
110748	ttccctgtgcctcaggggcctttag	L16894
110749	atcattaaagtctcacgtgcttctc	L16894
110750	gtgcctcaggggcctttagcagctt	L16894
110751	cctttagcagcttccgtgtggtcat	L16894
110752	ctaacctccactgacatggtgtaaa	L16894
110753	tcgcctccagctgctttgtaagcat	L16894
110754	ccagctgctttgtaagcataaactg	L16894
110755	gtttcagccagcactcactccagga	L16894
110756	gccagcactcactccaggactgaga	L16894
110757	acagcagttgcaccttaaatcttgg	M20625
110758	gcagttgcaccttaaatcttggcct	M20625
110759	tggggcctctttggtcgaaagacag	M20625
110760	caagcaccaggattttcttacacgg	M20625
110761	ccaggattttcttacacggatgcaa	M20625
110762	caggccacatcctcatgaagtgaag	M20625
110763	gccacatcctcatgaagtgaagtag	M20625
110764	acatcctcatgaagtgaagtagtat	M20625
110765	tttcagcttcaaaatattcgctacc	M20625
110766	aatattcgctaccagtttcaaatat	M20625
110767	attcgctaccagtttcaaatattgt	M20625
110768	cgctaccagtttcaaatattgtgtt	M20625
110769	gcaccttaaatcttggcctccctgc	M20625
110770	taaatcttggcctccctgcatcagt	M20625
110771	gcctccctgcatcagtggaccaagg	M20625
110772	ctgcatcagtggaccaagggtggcc	M20625
110773	catcagtggaccaagggtggcccag	M20625
110774	cacggctgctgtgattgtgaataca	M20625
110775	acaggtccaaatctctggggcctct	M20625
110776	ggtccaaatctctggggcctctttg	M20625

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25569	atgacttatccagacagggtgccca	L38281	68173	ggcagcagccctagagattgagcta	U46690	110777	gcggaacctgcaagcccatttgatg	W12035
25570	tatccagacagggtgcccaaccaac	L38281	68174	ttcaagcacgagttaactgcccggt	U46690	110778	gaacctgcaagcccatttgatgtac	W12035
25571	tagccaagaatccttctgctcagct	L38281	68175	cacgagttaactgcccggtcaatgt	U46690	110779	tgcccgagctctagaaatgcacctg	W12035
25572	agaatccttctgctcagcttctcta	L38281	68176	gagttaactgcccggtcaatgtggt	U46690	110780	agctctagaaatgcacctgaattca	W12035
25573	ctcagcttctctactgcagatcaga	L38281	68177	cccgctcttccatcctttagcagga	U46690	110781	gaattcacacagtggtgtgaaaatg	W12035
25574	gcataagacccaaggtttcattctc	L38281	68178	ctcccgcacacatgttgtggagtta	U46690	110782	tttaaaatgcacggtctgtagctac	W12035
25575	aggtttcattctctatattagatag	L38281	68179	ccgcacacatgttgtggagttaaat	U46690	110783	cacggtctgtagctacactgctgat	W12035
25576	tctctatattagatagcctgttagc	L38281	68180	tgtgtgtctgtagtcagtgtatgca	U46690	110784	ggtctgtagctacactgctgattct	W12035
25577	ttcccagcaatgagctcagcaaagt	L38281	68181	tctgtagtcagtgtatgcagacttc	U46690	110785	ctgtagctacactgctgattctgtg	W12035
25578	gtcctactaccttcaagatatcaaa	L38281	68182	tgcagacttcttgtgctcaccttgt	U46690	110786	cactgctgattctgtgatcaacttc	W12035
25579	ctaccttcaagatatcaaagaaaca	L38281	68183	gtgctcaccttgttttccagattaa	U46690	110787	ttctgtgatcaacttccacctacac	W12035
25580	acagtctaagtcacctgttgtctgc	L38281	68184	agcagccctagagattgagctagaa	U46690	110788	tgtgatcaacttccacctacacctg	W12035
25581	taagtcacctgttgtctgcttgtaa	L38281	68185	agaagaacgtcggcgacagaagcag	U46690	110789	gcaagcccatttgatgtactactgt	W12035
25582	tttattaactctgggaacttcacag	L38281	68186	tgtgctggcctccaggaatatcgag	U46690	110790	acgagaagctgctccagtgtcagaa	W12035
25583	aactctgggaacttcacagatgtag	L38281	68187	gctggcctccaggaatatcgagtct	U46690	110791	cttcccacaatgcaccaagagcttt	W12035
25584	caagcttggtctgcccacatgactt	L38281	68188	tatcgagtctgcgctgagctgcctg	U46690	110792	atgcaccaagagcttttccaatgcc	W12035
25585	cgacagccctgtgtgccgactggat	W75205	68189	tgcgctgagctgcctgtctaggcag	U46690	110793	caccaagagcttttccaatgcccga	W12035
25586	ccctgtgtgccgactggatattgag	W75205	68190	accaccacagccaggttcaagcacg	U46690	110794	gagcttttccaatgcccgagctcta	W12035
25587	cctgtctagtccctgtgcatctctt	W75205	68191	accacagccaggttcaagcacgagt	U46690	110795	cttttccaatgcccgagctctagaa	W12035
25588	gtctagtccctgtgcatctcttggc	W75205	68192	acgtgttcattacaatactgagcac	AA065687	110796	ttccaatgcccgagctctagaaatg	W12035
25589	tagtccctgtgcatctcttggcagt	W75205	68193	gttcattacaatactgagcactagg	AA065687	110797	ccacctgcatgttcgtggcctctaa	M64403
25590	ctgtgcatctcttggcagtgaccta	W75205	68194	atactgagcactaggagcagttctc	AA065687	110798	cctgcatgttcgtggcctctaagat	M64403
25591	tgcatctcttggcagtgacctacta	W75205	68195	tactgagcactaggagcagttctcc	AA065687	110799	cgcactttctttccagagtcatcaa	M64403
25592	atctcttggcagtgacctactattt	W75205	68196	actaggagcagttctcctcttctcc	AA065687	110800	actttctttccagagtcatcaagtg	M64403
25593	tgacctactatttatgaggcctctg	W75205	68197	ctaggagcagttctcctcttctccg	AA065687	110801	ttctttccagagtcatcaagtgtga	M64403
25594	actatttatgaggcctctgtgagct	W75205	68198	taggagcagttctcctcttctccga	AA065687	110802	tcatcaagtgtgacccggactgcct	M64403
25595	tatgaggcctctgtgagctagctca	W75205	68199	aggagcagttctcctcttctccgaa	AA065687	110803	tcaagtgtgacccggactgcctccg	M64403
25596	ggagttcttatgctggcttttagtg	W75205	68200	ggagcagttctcctcttctccgaaa	AA065687	110804	aacagattgaagcccttctggagtc	M64403
25597	tattgagcccaggtcctcaaagaca	W75205	68201	gagcagttctcctcttctccgaaag	AA065687	110805	agattgaagcccttctggagtcaag	M64403
25598	tgagcccaggtcctcaaagacacag	W75205	68202	agcagttctcctcttctccgaaagt	AA065687	110806	tgcgccaggcccagcagaacgtcga	M64403
25599	gcccaggtcctcaaagacacaggag	W75205	68203	gcagttctcctcttctccgaaagtt	AA065687	110807	tcgaccccaaggccactgaggagga	M64403
25600	gtcctcaaagacacaggaggctgca	W75205	68204	tcattacaatactgagcactaggag	AA065687	110808	ccaccgacgtgcgagatgtggacat	M64403
25601	ctcaaagacacaggaggctgcatga	W75205	68205	cattacaatactgagcactaggagc	AA065687	110809	gcatgttcgtggcctctaagatgaa	M64403
25602	atgatataggctgttccagagatcc	W75205	68206	attacaatactgagcactaggagca	AA065687	110810	tgttcgtggcctctaagatgaagga	M64403
25603	gttccagagatccctgtctagtccc	W75205	68207	ttacaatactgagcactaggagcag	AA065687	110811	aggagaccattcccttgactgccga	M64403
25604	ccagagatccctgtctagtccctgt	W75205	68208	tacaatactgagcactaggagcagt	AA065687	110812	agaccattcccttgactgccgagaa	M64403
25605	aatgacggccatttcttctcaggtg	AA139989	68209	acaatactgagcactaggagcagtt	AA065687	110813	ccattcccttgactgccgagaagtt	M64403
25606	gacggccatttcttctcaggtggct	AA139989	68210	caatactgagcactaggagcagttc	AA065687	110814	ttcccttgactgccgagaagttgtg	M64403
25607	atctcgggtcttcctcttagcacat	AA139989	68211	aatactgagcactaggagcagttct	AA065687	110815	gcatctacactgacaactctatccg	M64403
25608	ggtcttcctcttagcacatttccct	AA139989	68212	agctcttgaaatttcactctacgta	AA065689	110816	tggaactgcttctggtgaacaagct	M64403
25609	tcaccaagtgttgggcggccttatt	AA139989	68213	ttcactctacgtattattcgtccaa	AA065689	110817	tggaaaacccgaggcgaatatcgca	W12101
25610	cggccttattgttggtgctgccctt	AA139989	68214	tgagttccctgagcacccttccag	AA065689	110818	ggcgaatatcgcacaccatcgggga	W12101
25611	ccttattgttggtgctgcccttggc	AA139989	68215	ccctgagcacccttccaggaagag	AA065689	110819	cctgacaagatcacgcacatctcta	W12101
25612	tgctgcccttggctggctaatgagc	AA139989	68216	gcacccttccaggaagagcatctc	AA065689	110820	gacaagatcacgcacatctctaaga	W12101
25613	actgctctggccctcatgctgggtg	AA139989	68217	agagcatctcaggcaactttataaa	AA065689	110821	atcacgcacatctctaagacatcct	W12101
25614	gctctggccctcatgctgggtgcca	AA139989	68218	ctttatgtgacatttccataccaga	AA065689	110822	acgcacatctctaagacatccttga	W12101
25615	atgctgggtgccagcctcatgtatt	AA139989	68219	gtgacatttccataccagaccttca	AA065689	110823	atctctaagacatccttgagtgtca	W12101
25616	ctgggtgccagcctcatgtattgga	AA139989	68220	acatttccataccagaccttcagca	AA065689	110824	tctaagacatccttgagtgtcaggt	W12101
25617	ggccatttcttctcaggtggcttct	AA139989	68221	tttccataccagaccttcagcagta	AA065689	110825	aagacatccttgagtgtcaggtgaa	W12101
25618	gccagcctcatgtattggactctct	AA139989	68222	cagaccttcagcagtactacaaatc	AA065689	110826	acatccttgagtgtcaggtgaacca	W12101
25619	tggcctggcttattgtaccttccta	AA139989	68223	accttcagcagtactacaaatccaa	AA065689	110827	tgaaccaccacaatccggtgaaccg	W12101
25620	cctggcttattgtaccttcctattg	AA139989	68224	ctacgtattattcgtccaatctgat	AA065689	110828	aaagcatgaccgggctatccggcac	W12101
25621	ttattgtaccttcctattggcagtc	AA139989	68225	agcagtactacaaatccaatcctgg	AA065689	110829	gaatatcgcacaccatcggggagca	W12101
25622	ttgtaccttcctattggcagtcggc	AA139989	68226	cgtattattcgtccaatctgatggc	AA065689	110830	tatcgcacaccatcggggagcaagc	W12101
25623	taccttcctattggcagtcggccta	AA139989	68227	attattcgtccaatctgatggcgat	AA065689	110831	cgcacaccatcggggagcaagctct	W12101
25624	cctattggcagtcggcctatctcgg	AA139989	68228	cgtccaatctgatggcgatttgtgt	AA065689	110832	ctctcctgcccataagcgaggtcca	W12101
25625	attggcagtcggcctatctcgggtc	AA139989	68229	ccaatctgatggcgatttgtgtttt	AA065689	110833	tgcccataagcgaggtccaacgcca	W12101
25626	tgcaaaggtcaccgatggagaaaca	M36778	68230	tagacgacctcactaacctggtggt	AA065689	110834	taagcgaggtccaacgccagcagga	W12101
25627	ctctttcctgatagttgatgacaag	M36778	68231	caagaacgttcctctgcctgagttc	AA065689	110835	tccaacgccagcaggatacctgaca	W12101
25628	gcccttggtgtattcctggtctcgg	M36778	68232	cgttcctctgcctgagttccctgag	AA065689	110836	atacctgacaagatcacgcacatct	W12101
25629	ggtgtattcctggtctcggagcaaa	M36778	68233	cgatgccgtttccagttacaacgca	U52197	110837	tcgcaagctgccccagcaaaaggag	M83749
25630	ataatgagccagcaccctgaagggt	M36778	68234	tgccgtttccagttacaacgcaggg	U52197	110838	gtccctgatccgcaagcatgcgcag	M83749
25631	cctttgctgcagagattcctaagca	M36778	68235	atggcattacctctcctatcagctt	U52197	110839	catctgtgggcttcagcaggatgat	M83749
25632	tggagctttggcaaccctagcccca	M36778	68236	agactgactgcctactcacacagaa	U52197	110840	tgggcttcagcaggatgatgaagtg	M83749
25633	agccccagctaactttggacagtca	M36778	68237	actgcctactcacacagaagctcat	U52197	110841	tgaagtgaacacactcacgtgtgat	M83749
25634	ctttggacagtcagcatatgtccct	M36778	68238	gcctactcacacagaagctcatcga	U52197	110842	actcacgtgtgatgccctgactgag	M83749
25635	acagtcagcatatgtccctgccatc	M36778	68239	tactcacacagaagctcatcgagac	U52197	110843	ggccaagatcacccacactgatgtg	M83749
25636	agctggtatcacagccagtggttca	M36778	68240	cacagaagctcatcgagacgctgtt	U52197	110844	gatcacccacactgatgtggattgt	M83749

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25637	tatcacagccagtggttcagacagg	M36778	68241	agaagctcatcgagacgctgttgcc	U52197	110845	tctcaaagcctgccaggagcaaatc	M83749
25638	tgacaagccctgagaatgccatctg	M36778	68242	agctcatcgagacgctgttgcccctt	U52197	110846	gttccgtcaagagcagcataacgcc	M83749
25639	agaatgccatctgctggctccactc	M36778	68243	tcgagacgctgttgccctttggggt	U52197	110847	gcagcataacgccggatccaagtct	M83749
25640	cacacgggctcaactgtcctgggtg	M36778	68244	aggaactgcagcgcaggattttaat	U52197	110848	aagccattcgggcggcaagagagag	M83749
25641	actgtcctgggtgatagtgacttgc	M36778	68245	ttccagttacaacgcagggatcaca	U52197	110849	caagcatgcgcagaccttcatcgct	M83749
25642	ccaggccacaggctgcaggtcacag	M36778	68246	cagttacaacgcagggatcacaaca	U52197	110850	tgcgcagaccttcatcgctctgtgc	M83749
25643	aagcagccttgcaactgcagattac	M36778	68247	ttacaacgcagggatcacaacaaac	U52197	110851	gaccttcatcgctctgtgcgctacc	M83749
25644	ccgtagccagtgccctgctttactc	M36778	68248	agggatcacaacaaacgcagccacc	U52197	110852	catcgctctgtgcgctaccgacttc	M83749
25645	tcgaaagcccttggtgtattcctgg	M36778	68249	gatcacaacaaacgcagccaccaca	U52197	110853	cgctaccgacttcaagtttgccatg	M83749
25646	ggacacctaacacaatcatagacca	W75221	68250	cgcagccaccacagaggcactatgg	U52197	110854	cgacttcaagtttgccatgtacccg	M83749
25647	acctaacacaatcatagaccaaagc	W75221	68251	caccacagaggcactatggcattac	U52197	110855	tgccatgtacccgccatcgatgatt	M83749
25648	atccagatcacatatactgaaccgt	W75221	68252	actatggcattacctctcctatcag	U52197	110856	tgcaactggaagcgtgggagcagcc	M83749
25649	ccagatcacatatactgaaccgtgt	W75221	68253	gtggatgacactcctgcagaacaga	AA066209	110857	tccttcgggcatcccgatagaagct	U43844
25650	agatcacatatactgaaccgtgtac	W75221	68254	ggatgacactcctgcagaacagatg	AA066209	110858	gggcatcccgatagaagcttatgag	U43844
25651	gaaccgtgtacctcgcgatagtaga	W75221	68255	agtcctgttgcctgcgagcaaaaat	AA066209	110859	cttgctgcttagcttctgtgattgt	U43844
25652	accgtgtacctcgcgatagtagaga	W75221	68256	tcctgttgcctgcgagcaaaaattg	AA066209	110860	gcttagcttctgtgattgtggggtc	U43844
25653	cgtgtacctcgcgatagtagagaag	W75221	68257	ctgttgcctgcgagcaaaaattgac	AA066209	110861	ccctctgctactgctttgtggccca	U43844
25654	tgtacctcgcgatagtagagaagaa	W75221	68258	cgacccttaccgatgcagaatcca	AA066209	110862	gctactgctttgtggcccaggagct	U43844
25655	aacattctcgacgcattcaaagtga	W75221	68259	acccttaccgatgcagaatccagg	AA066209	110863	tggcccaggagctgctacagcctgg	U43844
25656	ttctcgacgcattcaaagtgattaa	W75221	68260	cctttaccgatgcagaatccaggcc	AA066209	110864	cctcatcttcatcagagcagggtta	U43844
25657	ctcgacgcattcaaagtgattaata	W75221	68261	tttaccgatgcagaatccaggccca	AA066209	110865	atcgatgccgtggaggtgacagagc	U43844
25658	caatcatagaccaaagcaaagacgg	W75221	68262	taccgatgcagaatccaggcccacc	AA066209	110866	ggcccatttctatcatgctgcctta	U43844
25659	atcatagaccaaagcaaagacggct	W75221	68263	tacaatgtttatccaacatatgact	AA066209	110867	tttctatcatgctgccttaataaag	U43844
25660	caaagacggcttcatcaacataaat	W75221	68264	gtttatccaacatatgactttgcct	AA066209	110868	tcatgctgccttaataaagatttcg	U43844
25661	aagacggcttcatcaacataaatga	W75221	68265	atgacactcctgcagaacagatgaa	AA066209	110869	gccctagatggcctctgtgtaatcc	U43844
25662	gacggcttcatcaacataaatgaca	W75221	68266	cactcctgcagaacagatgaaggcg	AA066209	110870	gatggcctctgtgtaatccgtactc	U43844
25663	cggcttcatcaacataaatgacata	W75221	68267	ctcctgcagaacagatgaaggcgga	AA066209	110871	ctctgtgtaatccgtactccagctg	U43844
25664	gaagaacattaactgccctagaacg	W75221	68268	agaatccaaacacaggaagaactct	AA066209	110872	cgtactccagctgctcttagaggga	U43844
25665	gaatccagatcacatatactgaacc	W75221	68269	aatccaaacacaggaagaactctgt	AA066209	110873	ccagctgctcttagagggaacagcc	U43844
25666	atctcttgcagcaacaatgaccttg	U22339	68270	gccagtttggtcagtcctgttgcct	AA066209	110874	cagagcaagaacccatacactgttg	U43844
25667	tgcagcaacaatgaccttggagcct	U22339	68271	ttggtcagtcctgttgcctgcgagc	AA066209	110875	actgttgctttgcttgctgcttagc	U43844
25668	acctgcccagctgatcctgaagaga	U22339	68272	tcagtcctgttgcctgcgagcaaaa	AA066209	110876	gctttgcttgctgcttagcttctgt	U43844
25669	ccagctgatcctgaagagaagatac	U22339	68273	ccagagctcacaggccagtggtgag	U53925	110877	agggtcagcctctcagctacagact	W83060
25670	cagttagtccagctgcgcctggaca	U22339	68274	agcccagctggccttcatgcgagtg	U53925	110878	gtcagcctctcagctacagactgct	W83060
25671	tctgttttactgagcctgggtgcct	U22339	68275	tgctgcccgcaatgaaaagggctac	U53925	110879	gtatgcaattgcctgcacaagacgg	W83060
25672	agcctgggtgcctcccatattcagg	U22339	68276	tgccacacaagtgaggtggttgcaa	U53925	110880	tgcaattgcctgcacaagacggccg	W83060
25673	ggtgcctcccatattcaggcctgga	U22339	68277	agacagctctggcaccaagccagcc	U53925	110881	tgcctgcacaagacggccgtgttgg	W83060
25674	tcccatattcaggcctggatccccg	U22339	68278	ctctggcaccaagccagccagcaag	U53925	110882	cacaagacggccgtgttggcaggta	W83060
25675	cttcctggttcatcacagaggccaa	U22339	68279	cagcaagcggcccatgtcgtctcca	U53925	110883	acggccgtgttggcaggtactgcgt	W83060
25676	ggttcatcacagaggccaacttccc	U22339	68280	gcggcccatgtcgtctccagaaatg	U53925	110884	gtgttggcaggtactgcgtgcctct	W83060
25677	tcacagaggccaacttcccagagta	U22339	68281	catgtcgtctccagaaatgaaatct	U53925	110885	gcaggtactgcgtgcctcttcaccc	W83060
25678	agtggccatctctacatcggtcctc	U22339	68282	gaaatctgctccaaagaagtctaag	U53925	110886	ggtactgcgtgcctcttcaccccat	W83060
25679	cttcccagagtacaagcagcctgag	U22339	68283	tgctccaaagaagtctaaggctgat	U53925	110887	ccattggcactgcccctggattact	W83060
25680	catctctacatcggtcctcttggtt	U22339	68284	aagctggccagcaactggatcctcc	U53925	110888	ttggcactgcccctggattactccc	W83060
25681	ggctttcctggcctggtacatcaaa	U22339	68285	gctggccttcatgcgagtgtactgt	U53925	110889	ctctcagctacagactgctacattg	W83060
25682	cctggcctggtacatcaaatcaagg	U22339	68286	ttcctgcctagtgcagtcctccagc	U53925	110890	gactgctacattgtgcacgaaatct	W83060
25683	gcagccttctcagccgtgccgtgtt	U22339	68287	caacgcccacattgactatactaca	U53925	110891	aacgcccaggaccagtttgagtatg	W83060
25684	ttctcagccgtgccgtgttgaggtg	U22339	68288	ccacattgactatactacaaagcct	U53925	110892	ctggaagcccagtacaagtacattg	W83060
25685	aacagtaccaatgactgtgagggcc	U22339	68289	tactacaaagcctgccatcatcttc	U53925	110893	gagacagcacgctggatcaccgtat	W83060
25686	ctaaccacacgatttcagaaactca	U22339	68290	aaagcctgccatcatcttccgcatt	U53925	110894	gcacgctggatcaccgtatgcaatt	W83060
25687	acatccttttcgccttcaccaagcg	U26707	68291	tgccatcatcttccgcattgctgcc	U53925	110895	cgctggatcaccgtatgcaattgcc	W83060
25688	ttttcgccttcaccaagcgagtcct	U26707	68292	catcttccgcattgctgcccgcaat	U53925	110896	tggatcaccgtatgcaattgcctgc	W83060
25689	ctctgcggcgcaagcaggaagaggt	U26707	68293	gaactcaagcatccagtgtgtcagc	AA065652	110897	ttactctcgagacagccagttcgcc	W97662
25690	ggggcttcatctgcagaaagatcac	U26707	68294	aagcatccagtgtgtcagcaataca	AA065652	110898	actctcgagacagccagttcgcccg	W97662
25691	gcttcatctgcagaaagatcacttc	U26707	68295	caggacaaatcccattggtatgaaa	AA065652	110899	tggctgaacaggccgaacggtatga	W97662
25692	gaaagatcacttccaacaagctgga	U26707	68296	gacaaatcccattggtatgaaaggc	AA065652	110900	gctgaacaggccgaacggtatgaag	W97662
25693	cttccaacaagctggagaatggagg	U26707	68297	aatgttatggcgatttggtgcaaga	AA065652	110901	aacaggccgaacggtatgaagacat	W97662
25694	tcccctcttacgacagcgtgacaaa	U26707	68298	taaagctccggtggaccatagcaaa	AA065652	110902	gacatggcagctttcatgaagagcg	W97662
25695	cttacgacagcgtgacaaagcccga	U26707	68299	agctccggtggaccatagcaaaata	AA065652	110903	ctttcatgaagagcgccgtggaaaa	W97662
25696	gcgtgacaaagcccgacaaggagaa	U26707	68300	atgctcccaggtttaatggattcca	AA065652	110904	aggagctctcctgcgaggagcgaaa	W97662
25697	aaacttccgaatctcacggacacag	U26707	68301	ttaatggattccagcaacaagactc	AA065652	110905	gctctcctgcgaggagcgaaacctg	W97662
25698	cttccgaatctcacggacacagagc	U26707	68302	gattccagcaacaagactcccaaga	AA065652	110906	tctcctgcgaggagcgaaacctgct	W97662
25699	agttggacatcctgcggcagcagat	U26707	68303	tccagcaacaagactcccaagaact	AA065652	110907	ctgctttccgtagcttacaagaacg	W97662
25700	tggacatcctgcggcagcagatgga	U26707	68304	tggctttcctcttggatggtcttca	AA065652	110908	gtcctgtccagcatcgagcagaaga	W97662
25701	tggcgtccaatccttccaaagtgtc	U26707	68305	catccagtgtgtcagcaatacacaa	AA065652	110909	tctcgagacagccagttcgcccgtc	W97662
25702	cttccaaagtgtcttacgagcctat	U26707	68306	tcctcttggatggtcttcatgaaga	AA065652	110910	tcgagacagccagttcgcccgtctg	W97662
25703	tgtcttacgagcctatcacgaccac	U26707	68307	cagcaatacacaaccactgacacag	AA065652	110911	ccatcctcgcagtcatggagagagc	W97662
25704	cttacgagcctatcacgaccactct	U26707	68308	caatacacaaccactgacacagtac	AA065652	110912	cctcgcagtcatggagagagccagt	W97662

TABLE 1

SEQ ID NO	sequence	DBAxnID
25705	agcctatcacgaccactctgcggcg	U26707
25706	tcacgaccactctgcggcgcaagca	U26707
25707	gaaggcctcccatggcatgaggaaa	L09754
25708	agtaatgtctgtctgactgtcatct	L09754
25709	aacattaacagcttctcctgaccag	L09754
25710	aacagcttctcctgaccagagagac	L09754
25711	ttctcctgaccagagagaccatgca	L09754
25712	aagcttggtcttagacccatcaagc	L09754
25713	ggtcttagacccatcaagcttgagg	L09754
25714	agacccatcaagcttgaggtttcta	L09754
25715	ttttgacaaaccatttgagttgatg	L09754
25716	gggagttctccttcagtaaggagag	L09754
25717	tctccttcagtaaggagagcaagcc	L09754
25718	agtgctgtgtcagaggatggagtaa	L09754
25719	ctgactgtcatctcagcaagtccta	L09754
25720	gtcatctcagcaagtcctaaggact	L09754
25721	ttccatgctgccttgttgaaagata	L09754
25722	agtgatcctgtctctcactgagggg	L09754
25723	acattttctgcccaaattccattct	L09754
25724	caaattccattctgtgtgcagtttt	L09754
25725	ccattctgtgtgcagtttttaagta	L09754
25726	aagagcttctggacagcaaacatta	L09754
25727	aggagaactggccatcgcagagcgt	W75373
25728	agaactggccatcgcagagcgtacc	W75373
25729	cactgctcatcaagcaatactgcag	W75373
25730	tgctcatcaagcaatactgcaggga	W75373
25731	tcaagcaatactgcagggagagtgg	W75373
25732	tgcgcaacctacagaagcaggtgga	W75373
25733	aggtgctgcgcaaggctgcatacaa	W75373
25734	tgcgcaaggctgcatacaagatcgt	W75373
25735	cagtacaggtgacacctgagaacct	W75373
25736	aggtgacacctgagaacctacaaga	W75373
25737	tgacacctgagaacctacaagactt	W75373
25738	cacctgagaacctacaagactttgt	W75373
25739	ccctgtgtggcctagatgagagcaa	W75373
25740	atgagagcaaggcccagctgtcagc	W75373
25741	agagcaaggcccagctgtcagcagc	W75373
25742	aggcccagctgtcagcagcagtgct	W75373
25743	cccagctgtcagcagcagtgctcac	W75373
25744	cagcagtgctcacactgctcatcaa	W75373
25745	cagtgctcacactgctcatcaagca	W75373
25746	tcacactgctcatcaagcaatactg	W75373
25747	gcgcccacagagagcctcagtccag	W75376
25748	ctcagtccagttcaagctcggcatg	W75376
25749	agaactatgtagccactctggcgcg	W75376
25750	actatgtagccactctggcgcgtgg	W75376
25751	atgtagccactctggcgcgtggagg	W75376
25752	ccactctggcgcgtggaggtgcatt	W75376
25753	gacacggctcggcgagagaatttcg	W75376
25754	gagaatttcggcgtgctgctcgatg	W75376
25755	aatttcggcgtgctgctcgatggct	W75376
25756	gtgctgctcgatggctactagatct	W75376
25757	ggctactagatctaagctcagtgtg	W75376
25758	tactagatctaagctcagtgtgccg	W75376
25759	gttcaagctcggcatgctgggctac	W75376
25760	atctttgactgtacctcaagagtga	W75376
25761	caagctcggcatgctgggctacggc	W75376
25762	gacaaccttcgtgaatcgctactat	W75376
25763	cttcgtgaatcgctactatgacggg	W75376
25764	cgtgaatcgctactatgacgggcga	W75376
25765	gaatcgctactatgacgggcgagtt	W75376
25766	ctactatgacgggcgagtttgataa	W75376
25767	ctatgacgggcgagtttgataagaa	W75376
25768	tgaaatcaccttccattggtttggg	X53333
25769	aatcaccttccattggtttgggctg	X53333
25770	ctctagcttcactcccaagttctac	X53333
25771	cttcactcccaagttctactggatg	X53333
25772	tcccaagttctactggatgtctgat	X53333

SEQ ID NO	sequence	DBAxnID
68309	acaaccactgacacagtactttatc	AA065652
68310	actgacacagtactttatctcaggg	AA065652
68311	acagtactttatctcagggaggcat	AA065652
68312	gtactttatctcagggaggcatctt	AA065652
68313	ttatgaactcaacaggacaaatccc	AA065652
68314	ctgcacagccaggagtgtacaacaa	U64828
68315	acaacaacatgagcatcaccgtgtc	U64828
68316	ttctcaaaacagacgcagatggaaa	U64828
68317	tcttctctgtggtgactacagacta	U64828
68318	gttcaggtgtttgctgacgtccagt	U64828
68319	gtgtttgctgacgtccagtgtacag	U64828
68320	cagcagaagagcctccttcagcagc	U64828
68321	ctccttcagcagctactgactgaat	U64828
68322	tttttgatatctcaatctgcagcca	U64828
68323	atatctcaatctgcagccattcttc	U64828
68324	caatctgcagccattcttcagatcg	U64828
68325	gcagccattcttcagatcgtagcat	U64828
68326	atccaatgatgggccagatgcaaat	U64828
68327	ttcttcagatcgtagcatttggagc	U64828
68328	tgcaaatgagctctctgcagatgcc	U64828
68329	tgagctctctgcagatgccagggat	U64828
68330	tgaatactgtgtgctctgagcagat	U64828
68331	ctgtgtgctctgagcagatgaatga	U64828
68332	atccagcactgagacacacaggcct	U64828
68333	cactgagacacacaggcctctactg	U64828
68334	gacacacaggcctctactgcaacca	U64828
68335	tggttctttctgtcaccagagacat	D87757
68336	tcaccagagacatttccctctgaca	D87757
68337	gtcttgtctgctgtaccagctggga	D87757
68338	tctgctgtaccagctgggaagaaac	D87757
68339	ttcatctgtcagctttggctaagct	D87757
68340	tgtcagctttggctaagctctgaac	D87757
68341	ctaagctctgaacatcttttgcttc	D87757
68342	tctgaacatctttgcttcctgtaa	D87757
68343	aaaccaccatgcttgtttcttgctc	D87757
68344	ccatgcttgtttcttgctctcacaa	D87757
68345	ttgtttcttgctctcacaataaatt	D87757
68346	cttgctctcacaataaattccacat	D87757
68347	gagacatttccctctgacatctact	D87757
68348	tcacaataaattccacattcatagc	D87757
68349	tctgacatctactttaaagggagat	D87757
68350	tctcaatatacacagtgcaagttgc	D87757
68351	tatacacagtgcaagttgcaagggc	D87757
68352	ttacacaatgatttgtccttgaaac	D87757
68353	ttgtccttgaaactctcagaataag	D87757
68354	cggtttttccacagcgcattctgca	D87757
68355	atcatgcttccatggaggataatag	D87757
68356	ttcccaacatcatagtctccaaaag	AA065747
68357	tcccaacatcatagtctccaaaagc	AA065747
68358	cccgctctccaatacataagagaac	AA065747
68359	ccgctctccaatacataagagaaca	AA065747
68360	gctctccaatacataagagaacaca	AA065747
68361	ctctccaatacataagagaacacat	AA065747
68362	aatcaatgtgccaaagtcttttcca	AA065747
68363	atcaatgtgccaaagtcttttccag	AA065747
68364	atgtgccaaagtcttttccaggcct	AA065747
68365	tgtgccaaagtcttttccaggccta	AA065747
68366	gtgccaaagtcttttccaggcctag	AA065747
68367	tgccaaagtcttttccaggcctagt	AA065747
68368	ccaacatcatagtctccaaaagcat	AA065747
68369	aaagcagtgatctccagaagcatag	AA065747
68370	agcagtgatctccagaagcatagaa	AA065747
68371	cagtgatctccagaagcatagaaga	AA065747
68372	agtgatctccagaagcatagaagaa	AA065747
68373	gtgatctccagaagcatagaagaat	AA065747
68374	tgatctccagaagcatagaagaata	AA065747
68375	acccgctctccaatacataagagaa	AA065747
68376	tgcacagtctgtcaccttggtcgct	X70847

SEQ ID NO	sequence	DBAxnID
110913	agagagccagtctgatccagaaggc	W97662
110914	agagccagtctgatccagaaggcca	W97662
110915	ccagtctgatccagaaggccaagtt	W97662
110916	agtctgatccagaaggccaagttgg	W97662
110917	aattctggcacagaggtgctcttgc	M10021
110918	gtgctcttgccacctgctgaggcta	M10021
110919	ttgcatgtccatgtttctcttcagg	M10021
110920	tctcttcaggaagggttgagacttg	M10021
110921	gactctgaacttgctaccaaaggag	M10021
110922	tctgaacttgctaccaaaggaggcc	M10021
110923	gaacttgctaccaaaggaggccttg	M10021
110924	atacagtcatagactactgcatcag	M10021
110925	cagtcatagactactgcatcagctc	M10021
110926	actactgcatcagctcttggtctct	M10021
110927	ctctcttctttactgtataaaatgt	M10021
110928	aagattctaactcaagtattcagaa	M10021
110929	ctcttgccacctgctgaggctaaac	M10021
110930	ccacctgctgaggctaaacagcctt	M10021
110931	gaggctaaacagccttcccaaatgg	M10021
110932	ccttcccaaatggtttatgacactg	M10021
110933	cacctctgttcaccctacatagaaa	M10021
110934	ctctgttcaccctacatagaaacaa	M10021
110935	gtgctcctgtccttgcatgtccatg	M10021
110936	tccttgcatgtccatgtttctcttc	M10021
110937	cctgcaggcatgactgtgatccagt	W18503
110938	actgtgatccagtgggtgtcagatt	W18503
110939	tgcctgggtggcctgtttgtacctg	W18503
110940	ggtggcctgtttgtacctgaggcct	W18503
110941	gtacctgaggcctacatcactgcca	W18503
110942	gaggcctacatcactgccaccagac	W18503
110943	actgccaccagacagtatgtggcac	W18503
110944	caagctaacagctggtccctggagg	W18503
110945	aacagctggtccctggaggaactct	W18503
110946	tggtccctggaggaactctgcctgg	W18503
110947	gaactctgcctggaagtcaatgtca	W18503
110948	gaagtcaatgtcaccgcctcacaga	W18503
110949	atcaaacagctgcagaacatctcac	W18503
110950	cagctgcagaacatctcacaagcag	W18503
110951	cagaacatctcacaagcagctgcat	W18503
110952	atctcacaagcagctgcatctggtg	W18503
110953	caagcagctgcatctggtggtgcca	W18503
110954	gctgcatctggtggtgccaaggaac	W18503
110955	ctgaagaacatccacgtgtgcctgg	W18503
110956	aacatccacgtgtgcctgggtggcc	W18503
110957	ctggcccatgtgcacatctgtgatc	M74227
110958	cacatctgtgatccaccagcagtct	M74227
110959	cagcctgggctaacagtaagtttga	M74227
110960	aggctagccttgtctgttacataag	M74227
110961	gccttgtctgttacataagtaataa	M74227
110962	gaacgacatatccttcttttctagt	M74227
110963	catatccttcttttctagtggtgct	M74227
110964	ttccttgtgatctccatttgggtga	M74227
110965	gcattttctgttcaaatagttcttg	M74227
110966	tcatgagcattctggggcttggtgt	M74227
110967	tgagcattctggggcttggtgttct	M74227
110968	gcattctggggcttggtgttcttta	M74227
110969	tgtgatccaccagcagtcttttagt	M74227
110970	aattttccagtctcgattgcaataa	M74227
110971	tcaaccacacagtcagatgtctcaa	M74227
110972	tcagatgtctcaacaaacacctgtc	M74227
110973	gtctcaacaaacacctgtcatccca	M74227
110974	acctgtcatcccagtatttgggaag	M74227
110975	catcccagtatttgggaagtgcagg	M74227
110976	caaggccagcctgggctaacagtaa	M74227
110977	gtcactcctgaagctaagaacttga	W12204
110978	gcaaagcgcatcacggccgaccagg	W12204
110979	gcatccatgatgcatcgccaagaga	W12204
110980	tccatgatgcatcgccaagagacgg	W12204

TABLE 1

SEQ ID NO	sequence	DBAxnID
25773	tacatgagaccctaagaggcctggg	X53333
25774	atgagaccctaagaggcctgggata	X53333
25775	cacggtgccaaagcccctgtattgt	X53333
25776	ggtgccaaagcccctgtattgtgtt	X53333
25777	gcccctgtattgtgtttgtgaacca	X53333
25778	tgtttgtgaaccatcctacatgtaa	X53333
25779	ttgtgaaccatcctacatgtaaggg	X53333
25780	ccattggtttgggctggaaactcat	X53333
25781	aactcatggttggagcacaggaagt	X53333
25782	tgggcttcgtgtcactttggcctgt	X53333
25783	tcgtgtcactttggcctgtcactta	X53333
25784	tgtcactttggcctgtcacttagat	X53333
25785	cactttggcctgtcacttagatggc	X53333
25786	ggcctgtcacttagatggccttggc	X53333
25787	agatggccttggctctagcttcact	X53333
25788	aatccctctgggtgttgctcttgcc	L22143
25789	tgttgctcttgccagctggtgactc	L22143
25790	tagtgccacctttactgtgctttttt	L22143
25791	tgccacctttactgtgctttttgct	L22143
25792	tgtttatcacccattcgacctataa	L22143
25793	ttatcacccattcgacctataagaa	L22143
25794	tattacagacaccgtgaaacgcggt	L22143
25795	cccagtccactggctgtggattctt	L22143
25796	ttcagtgacttgtcacattatagag	L22143
25797	ttggtttatgcctgattttgctagc	L22143
25798	gtttatgcctgattttgctagctta	L22143
25799	tttttaatcaacttgactgtaatat	L22143
25800	tgctcttgccagctggtgactccca	L22143
25801	tgccagctggtgactcccagcagct	L22143
25802	cagctggtgactcccagcagctcac	L22143
25803	agctgcgcttcaggtttgagctgta	L22143
25804	ctcttcagggtctcatagtgccacc	L22143
25805	ttcagggtctcatagtgccaccttt	L22143
25806	agggtctcatagtgccacctttact	L22143
25807	tcatagtgccacctttactgtgctt	L22143
25808	agcttggagcctacgccaggttcac	U16216
25809	gagcctacgccaggttcactggcca	U16216
25810	tgtgagctgccatccaggtactggg	U16216
25811	gaataagtactctcaaccactgagc	U16216
25812	tcaaccactgagccataactccagc	U16216
25813	ccataactccagcctactattatca	U16216
25814	ctccagcctactattatcatctgtg	U16216
25815	cctactattatcatctgtggttctc	U16216
25816	attatcatctgtggttctcagtgca	U16216
25817	ggttctcagtgcaaagtggtgttct	U16216
25818	taggctctctgatgctgacctgata	U16216
25819	ctctgatgctgacctgataagaatg	U16216
25820	attaggtcactgccattcgacacag	U16216
25821	actgaaatcgaccatgtggtgactt	U16216
25822	tttatcggtgtcttgtctgcatgta	U16216
25823	ggtgtcttgtctgcatgtacatctg	U16216
25824	gcatgtacatctgtgtgccctgtgc	U16216
25825	gtgtgccctgtgcatagccagtgcc	U16216
25826	catagccagtgcctggagaagcaaa	U16216
25827	gacatctgtgagctgccatccaggt	U16216
25828	tacgagaggaccttcgtctgcctga	W75403
25829	aggaccttcgtctgcctgaaggagg	W75403
25830	atcacagtgctgtctgccatgacag	W75403
25831	tcacagtgctgtctgccatgacaga	W75403
25832	acagtgctgtctgccatgacagagg	W75403
25833	cagtgctgtctgccatgacagagga	W75403
25834	tgtctgccatgacagaggaggcagc	W75403
25835	aggcagctgttgcgatcaaggccat	W75403
25836	ctgttgcgatcaaggccattgcgga	W75403
25837	ttgcgatcaaggccattgcggaata	W75403
25838	gcgatcaaggccattgcggaataac	W75403
25839	cgatcaaggccattgcggaataacc	W75403
25840	cttcgtctgcctgaaggaggactgg	W75403
68377	caccttggtcgctggcctgacttcc	X70847
68378	ataccatatcttgaacattctggac	X70847
68379	tatcttgaacattctggacagattc	X70847
68380	gcttgtctgttttatcagtggcaac	X70847
68381	tggcaactatttaccagttgaaaag	X70847
68382	aatattcatctgaccagttttctct	X70847
68383	catctgaccagttttctcttaaagc	X70847
68384	tttctcttaaagccatttccataat	X70847
68385	ttaaagccatttccataatgacaat	X70847
68386	ccatttccataatgacaataatgat	X70847
68387	tttatttcagtcactcctgataata	X70847
68388	cacggttcgccgtcgtatgatgatg	X70847
68389	tatcatgtacacaggcacgcttgac	X70847
68390	aggcacgcttgactgctggcggaag	X70847
68391	gcttgactgctggcggaagatcgcg	X70847
68392	tttcaagggcgcatggtccaacgtt	X70847
68393	atggtccaacgttctcagaggcatg	X70847
68394	cgcctttgtgcttgtcttgtatgat	X70847
68395	tgtgcttgtcttgtatgatgagatc	X70847
68396	ttatttcattgtcttctccaaatac	U57368
68397	cattgtcttctccaaatacaaagta	U57368
68398	tacagtgccctttttcattttagctt	U57368
68399	ctattcttcaaatccctcgcttgtc	U57368
68400	ttcttcaaatccctcgcttgtcatt	U57368
68401	aaatccctcgcttgtcattggctct	U57368
68402	tgtcattggctcttgcgtgtcagtt	U57368
68403	tgtcagctctgttaaggttgaactt	U57368
68404	aaagcacttttgttattccatcaat	U57368
68405	gcacttttgttattccatcaataaa	U57368
68406	cttttgttattccatcaataaatgc	U57368
68407	ttattccatcaataaatgcttcatt	U57368
68408	tgtcttctccaaatacaaagtaaat	U57368
68409	tattccatcaataaatgcttcattt	U57368
68410	atcttgtattcattctttgacatgc	U57368
68411	tcattctttgacatgcattgttggc	U57368
68412	ttctttgacatgcattgttggctat	U57368
68413	tacagttcctttccatcattttaca	U57368
68414	agttcctttccatcattttacagtg	U57368
68415	tttccatcattttacagtgcccttt	U57368
68416	ccatcattttacagtgccctttca	U57368
68417	tgccttaaccctactaaagcatgat	M63707
68418	cttaaccctactaaagcatgatgct	M63707
68419	gactgccattcaggatattgtcttt	M63707
68420	aaatctaagatgctcccagcaaaga	M63707
68421	tctaagatgctcccagcaaagaaga	M63707
68422	aagatgctcccagcaaagaagaaag	M63707
68423	atgctcccagcaaagaagaaagaac	M63707
68424	gaaatgctgtgccaggcatctctaa	M63707
68425	caggcatctctaagctctaccctta	M63707
68426	gcatctctaagctctaccctactc	M63707
68427	tctctaagctctaccctactctgt	M63707
68428	ctaagctctaccctactctgtgtg	M63707
68429	aaccctactaaagcatgatgctttt	M63707
68430	cctactaaagcatgatgcttttcaa	M63707
68431	ctacttcctgagaagactccaactt	M63707
68432	cttcctgagaagactccaactttga	M63707
68433	cctgagaagactccaactttgaaat	M63707
68434	ttgaaataaacctgcgactgccatt	M63707
68435	acctgcgactgccattcaggatatt	M63707
68436	tgcgactgccattcaggatattgtc	M63707
68437	aaaccctctatgttatcatagctc	M97017
68438	ttctatgttatcatagctcagacag	M97017
68439	gggctctctgcaccattcattgtgg	M97017
68440	ccattcattgtggcagttgggacat	M97017
68441	acagacacatacacttagatcaatg	M97017
68442	acttagatcaatgcatcgctgtact	M97017
68443	atcaatgcatcgctgtactccttga	M97017
68444	gcatcgctgtactccttgaaatcag	M97017
110981	atgatgcatcgccaagagacggtag	W12204
110982	atgcatcgccaagagacggtagagt	W12204
110983	catcgccaagagacggtagagtgct	W12204
110984	tgcttacgcaaattcaacgcccgga	W12204
110985	ctcacaaccatgcttgtctccagga	W12204
110986	acaaccatgcttgtctccaggaact	W12204
110987	accatgcttgtctccaggaacttttt	W12204
110988	cttgtctccaggaacttttcagctg	W12204
110989	gaccaggctctcaagcacccatggg	W12204
110990	gtctccaggaacttttcagctgcca	W12204
110991	ccatgggtctgtcaacggtctacgg	W12204
110992	gtctgtcaacggtctacggtggcat	W12204
110993	tgtcaacggtctacggtggcatcca	W12204
110994	caacggtctacggtggcatccatga	W12204
110995	cggtctacggtggcatccatgatgc	W12204
110996	tctacggtggcatccatgatgcatc	W12204
110997	gtggcatccatgatgcatcgccaag	W12204
110998	aacagtctggagcatacggacaggc	AA137902
110999	acggacaggcaccactcacacatgc	AA137902
111000	gacatttcttccagctaaagtcact	AA137902
111001	atttcttccagctaaagtcactcga	AA137902
111002	tcttccagctaaagtcactcgatgt	AA137902
111003	agctaaagtcactcgatgttggcaa	AA137902
111004	taaagtcactcgatgttggcaaggt	AA137902
111005	agtcactcgatgttggcaaggtacc	AA137902
111006	tatgcagttaccagtgttaaatcca	AA137902
111007	gtacacagcccagcacatgaagctt	AA137902
111008	cacagcccagcacatgaagctttag	AA137902
111009	agcccagcacatgaagctttagacg	AA137902
111010	gacaggcaccactcacacatgcgca	AA137902
111011	caattacacacaaagaagacagggc	AA137902
111012	caccactcacacatgcgcagaagca	AA137902
111013	tcacacatgcgcagaagcagagtct	AA137902
111014	agagtctactttcagatccacttta	AA137902
111015	gtctactttcagatccactttattt	AA137902
111016	cctcctcacatacagagcttctcag	AA137902
111017	cacatacagagcttctcagacattt	AA137902
111018	cagagcttctcagacatttcttcca	AA137902
111019	aatcctttacttgtggctcagttct	D10632
111020	ttacttgtggctcagttcttagaaa	D10632
111021	tacctgcctctcatgtctaagaaaa	D10632
111022	atgctttagacaagctctgtagtaa	D10632
111023	gtaatagaccactcacaggtttcac	D10632
111024	cactcacaggtttcacactagagaa	D10632
111025	tcacaggtttcacactagagaatca	D10632
111026	gtttcacactagagaatcatgaaca	D10632
111027	tctttttcaactcaaatatttcaca	D10632
111028	tcaactcaaatatttcacaatgaca	D10632
111029	atatttcacaatgacaacaaaatgg	D10632
111030	tttcacaatgacaacaaaatggaga	D10632
111031	cttgtggctcagttcttagaaaaca	D10632
111032	aaattcatactgcaagaagccttac	D10632
111033	ttcatactgcaagaagccttactaa	D10632
111034	caagaagccttactaatgcaatgaa	D10632
111035	tatccaagaagcctaccttagaact	D10632
111036	agaagcctaccttagaactcatcaa	D10632
111037	atatagcacagtctttacctgcctc	D10632
111038	tagcacagtctttacctgcctctca	D10632
111039	tcattcttgagtagcattagggtat	M32490
111040	gtatttcaaaactgccaaggggctg	M32490
111041	aaagccctgcttgtcctttgacaga	M32490
111042	gccctgcttgtcctttgacagaagt	M32490
111043	cttgtcctttgacagaagtaaatga	M32490
111044	taaatgaaagcgcctctcattcctt	M32490
111045	aaagcgcctctcattccttcccgag	M32490
111046	actctgtgagtgtccttggggcagc	M32490
111047	ctgtgagtgtccttggggcagctac	M32490
111048	tgagtgtccttggggcagctacctg	M32490

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25841	ttcgtctgcctgaaggaggactggg	W75403	68445	ctgtactccttgaaatcagagctag	M97017	111049	tccttggggcagctacctgcactct	M32490
25842	ctgcctgaaggaggactgggcaatg	W75403	68446	aaatcagagctagcttgttagaaaa	M97017	111050	gcactctaaaactgcaaacagaaac	M32490
25843	gagatcctgatcacagtgctgtctg	W75403	68447	tgcatgtcattaatcccagcgctaa	M97017	111051	tttcaaaactgccaaggggctgatg	M32490
25844	agatcctgatcacagtgctgtctgc	W75403	68448	aatctctgtgagttcaaggccacat	M97017	111052	cgcagccgcagttggagaatgccaa	M32490
25845	tcctgatcacagtgctgtctgccat	W75403	68449	atagctcagacaggggcaatgggag	M97017	111053	aagacttcgcttcatagtactggag	M32490
25846	ctgatcacagtgctgtctgccatga	W75403	68450	gccacttcctgctaaaattctggtc	M97017	111054	acttcgcttcatagtactggagcgg	M32490
25847	tgatcacagtgctgtctgccatgac	W75403	68451	ctttcccagttcctctgtccttcat	M97017	111055	ggcattattgctccatattggagca	M32490
25848	ttcctaaggagctgcaggagaggca	U20086	68452	cagttcctctgtccttcatggggtt	M97017	111056	attattgctccatattggagcatgt	M32490
25849	agaggcaaatctcctcagtgtcact	U20086	68453	gcacacagcatcccagagctatgct	M97017	111057	tttacggatgacgttctgtttttctg	M32490
25850	atctcttccagaagacagactactt	U20086	68454	agcatcccagagctatgctaactga	M97017	111058	gtgaaagccctgcttgtcctttgac	M32490
25851	agacagactacttcaatgggtaaag	U20086	68455	tcagcactgaaggcccacatgagga	M97017	111059	taacagacgtacactgtggagttgg	AA089248
25852	ggctttaacagcttgttttattcat	U20086	68456	ttctaaactagatgatctgggctct	M97017	111060	cagacgtacactgtggagttggtcc	AA089248
25853	aactgtctcgataattttcctcttg	U20086	68457	gagacctacaatgacacactttcag	AA065727	111061	aagccatgtgcaacaagctgccagc	AA089248
25854	ccctttgctttgtgtgaccacatgc	U20086	68458	gacctacaatgacacactttcagta	AA065727	111062	ccatgtgcaacaagctgccagctca	AA089248
25855	gctttgtgtgaccacatgctttctg	U20086	68459	acatgaaccatctagtatgcaccac	AA065727	111063	tgtgcaacaagctgccagctcaaga	AA089248
25856	tgtgaccacatgctttctgtaccat	U20086	68460	gaaccatctagtatgcaccacaata	AA065727	111064	gcaacaagctgccagctcaagaatg	AA089248
25857	cacatgctttctgtaccattcactt	U20086	68461	accatctagtatgcaccacaataag	AA065727	111065	acaagctgccagctcaagaatgctg	AA089248
25858	ctttctgtaccattcacttacttgg	U20086	68462	catctagtatgcaccacaataagtg	AA065727	111066	agctgccagctcaagaatgctgatc	AA089248
25859	tttttggatctcatgatttatggaa	U20086	68463	tctagtatgcaccacaataagtgag	AA065727	111067	tgccagctcaagaatgctgatccag	AA089248
25860	aaatctcctcagtgtcactgccaca	U20086	68464	tagtatgcaccacaataagtgaggt	AA065727	111068	ctcaagaatgctgatccaggggacg	AA089248
25861	acctctcgtgaggcctgtggcatat	U20086	68465	gtatgcaccacaataagtgaggtaa	AA065727	111069	tctccaactccacagtaaggaaacg	AA089248
25862	aattctgtagcatctttgcccattt	U20086	68466	taaacacttgcatgagatgtaatgg	AA065727	111070	gttcagccaacgaagttcatgacga	AA089248
25863	gtagcatctttgcccatttgcttag	U20086	68467	atatggtacccttagctagacggca	AA065727	111071	acgtacactgtggagttggtccgat	AA089248
25864	tctttgcccatttgcttagctgctg	U20086	68468	cccttagctagacggcactgatata	AA065727	111072	tacactgtggagttggtccgataga	AA089248
25865	cccatttgcttagctgctggctgtg	U20086	68469	cctacaatgacacactttcagtaga	AA065727	111073	agttctttggacgtgccacctcaca	AA089248
25866	tgcttagctgctggctgtgaatgcg	U20086	68470	cttagctagacggcactgatatatg	AA065727	111074	tctttggacgtgccacctcacaacc	AA089248
25867	aatgaaatctcttccagaagacaga	U20086	68471	caatgacacactttcagtagagcat	AA065727	111075	cctcacaaccagtgagactcgtagt	AA089248
25868	tagccaggtttccattgattcattc	M73696	68472	atgacacactttcagtagagcatct	AA065727	111076	cacaaccagtgagactcgtagtcaa	AA089248
25869	ggtttccattgattcattccaaggt	M73696	68473	gacacactttcagtagagcatctaa	AA065727	111077	gactcgtagtcaagcacgaatctga	AA089248
25870	ctccctcatagtctctcatagaaat	M73696	68474	cacactttcagtagagcatctaatt	AA065727	111078	tagtcaagcacgaatctgaagaagc	AA089248
25871	tagtcacggcactctgctccctgtc	M73696	68475	cactttcagtagagcatctaattaa	AA065727	111079	gcgcctggacctctagaccagcagg	AA108866
25872	ccctgtcactagtggcaggttctgt	M73696	68476	acccacttacggtgacatgaaccat	AA065727	111080	cctggacctctagaccagcaggaca	AA108866
25873	cactagtggcaggttctgttgatgt	M73696	68477	tgacatgaaccatctagtatgcacc	AA065727	111081	caatctgagcccagtccccagctgg	AA108866
25874	tggcaggttctgttgatgtgtgaca	M73696	68478	aagatacatccgcgatatggctagt	AA066285	111082	gcttcacttccgtcactctggtgct	AA108866
25875	ttgcaaacagttcacggacatgttg	M73696	68479	gatacatccgcgatatggctagtgg	AA066285	111083	tcactctggtgctctcgcatcacag	AA108866
25876	ggagacaaagcccctggcggttgtg	M73696	68480	tccttctgagaggcaactatcatgg	AA066285	111084	tggtgctctcgcatcacagaagctt	AA108866
25877	tcttctgagatttctggcagtgtgg	M73696	68481	ggcaactatcatggtgccagttcga	AA066285	111085	cgcatcacagaagcttgcccccatg	AA108866
25878	tccatgttcatctgtctacctctta	M73696	68482	gcaactatcatggtgccagttcgac	AA066285	111086	atcacagaagcttgcccccatggct	AA108866
25879	ttcatctgtctacctcttaactgaa	M73696	68483	caactatcatggtgccagttcgacc	AA066285	111087	acagaagcttgcccccatggctgcc	AA108866
25880	tccctttctccctgggctatgaatt	M73696	68484	actatcatggtgccagttcgaccac	AA066285	111088	tccttggtcaacccaattaggctat	AA108866
25881	ttctcctgggctatgaattcctgta	M73696	68485	ctatcatggtgccagttcgaccacg	AA066285	111089	ttggtcaacccaattaggctatgct	AA108866
25882	acatatttctctacttttgtatcag	M73696	68486	tatcatggtgccagttcgaccacgc	AA066285	111090	gtcaacccaattaggctatgctaaa	AA108866
25883	ggcctcaattccagtatgttttaat	M73696	68487	tcatggtgccagttcgaccacgcac	AA066285	111091	ggacctctagaccagcaggacatgg	AA108866
25884	gcatgtactgctttgtcggcctcac	M73696	68488	atggtgccagttcgaccacgcacac	AA066285	111092	aacccaattaggctatgctaaacat	AA108866
25885	actgctttgtcggcctcaccagctt	M73696	68489	ggtgccagttcgaccacgcacacat	AA066285	111093	cctctagaccagcaggacatggtgt	AA108866
25886	tcttccccaacatgcacagggattt	M73696	68490	atacatccgcgatatggctagtggg	AA066285	111094	gaagctcagggctgcagaatgagga	AA108866
25887	ccaacatgcacagggatttaacaac	M73696	68491	tacatccgcgatatggctagtgggt	AA066285	111095	tctgcccttaacattcaggaccaat	AA108866
25888	cgcagaagctgcaggccctgcagcg	W75523	68492	gtggaatttccttctgagaggcaac	AA066285	111096	gcccttaacattcaggaccaatctg	AA108866
25889	ctgcagagtcgcttctgctccgcca	W75523	68493	tggaatttccttctgagaggcaact	AA066285	111097	cttaacattcaggaccaatctgagc	AA108866
25890	tgacacgctggacatcactggcagc	W75523	68494	gaatttccttctgagaggcaactat	AA066285	111098	aacattcaggaccaatctgagccca	AA108866
25891	catcactggcagcgccgaggtgcgg	W75523	68495	aatttccttctgagaggcaactatc	AA066285	111099	attcaggaccaatctgagcccagtc	AA108866
25892	catgccacagctaaggccacagtgg	W75523	68496	atttccttctgagaggcaactatca	AA066285	111100	ccagctgatcgactccatggccaac	AA008650
25893	tgccacagctaaggccacagtggct	W75523	68497	ttccttctgagaggcaactatcatg	AA066285	111101	gctgatcgactccatggccaactcg	AA008650
25894	agtggctgctttcacggccagtgag	W75523	68498	atatgatcatctggatcctgctgaa	U23921	111102	ctgtcgctggtggagctggccatcg	AA008650
25895	tggctgctttcacggccagtgaggg	W75523	68499	tcatctggatcctgctgaaatggaa	U23921	111103	gagctggccatcgggaggtatccca	AA008650
25896	gctgctttcacggccagtgagggcc	W75523	68500	atgttatccaagcagtgggttaact	U23921	111104	ccacctgatgccaaggaactagagg	AA008650
25897	tgctttcacggccagtgagggccac	W75523	68501	taaagggcccattcatccttatgc	U23921	111105	gaactagaggccagctttggcggcc	AA008650
25898	cacggccagtgagggccacgcacat	W75523	68502	tcatcctttatgcccggtacacaca	U23921	111106	ctagaggccagctttggcggcctgt	AA008650
25899	cgcacatcccagggtcgtggaacta	W75523	68503	tttatgcccggtacacacaacatat	U23921	111107	cagacggagaaccccatagtgtctc	AA008650
25900	gctccgccatccgcgaggtgtatga	W75523	68504	cccggtacacacaacatatgttcag	U23921	111108	gagaaccccatagtgtctccccgag	AA008650
25901	cgccatccgcgaggtgtatgaacag	W75523	68505	gagtacactattgctgtccattgct	U23921	111109	ggacgccccatcagtggtcatggga	AA008650
25902	ccatccgcgaggtgtatgaacagct	W75523	68506	actattgctgtccattgctgctgtg	U23921	111110	gacgccccatcagtggtcatgggat	AA008650
25903	tatgaacagctctatgacacgctgg	W75523	68507	cattgctgctgtgaagccctagctg	U23921	111111	cgccccatcagtggtcatgggatgg	AA008650
25904	aacagctctatgacacgctggacat	W75523	68508	tgctgtgaagccctagctgaatata	U23921	111112	ctgatcgactccatggccaactcgt	AA008650
25905	cagctctatgacacgctggacatca	W75523	68509	gaagccctagctgaatatagatgta	U23921	111113	atcgactccatggccaactcgtttg	AA008650
25906	gctctatgacacgctggacatcact	W75523	68510	gtacatcagtgactccatgaactgg	U23921	111114	cgactccatggccaactcgtttgta	AA008650
25907	tctatgacacgctggacatcactgg	W75523	68511	cagtgactccatgaactggctaaac	U23921	111115	gactccatggccaactcgtttgtag	AA008650
25908	catgaagttcaacctctccggcctt	L39790	68512	ctccatgaactggctaaacagtaag	U23921	111116	ctccatggccaactcgtttgtaggg	AA008650

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
25909	ccgttatgtcatctcgcaagggaac	L39790	68513	attaagtctcactcaagatcccgtg	U23921	111117	tccatggccaactcgtttgtaggga	AA008650
25910	agacttgggccttgggccagctcag	L39790	68514	tctcactcaagatcccgtggtaaaa	U23921	111118	catggccaactcgtttgtagggacg	AA008650
25911	gatcccagcacagccggccttcaga	L39790	68515	tcaagatcccgtggtaaaagtgtca	U23921	111119	gccaactcgtttgtagggacgcgct	AA008650
25912	agcacagccggccttcagaagtgtt	L39790	68516	tccacccaaaggaagctcacagcac	U23921	111120	ctttctcatgactggctatacccccc	W12383
25913	catcactgactgattttgaagagga	L39790	68517	aagctcacagcacaccgactccgga	U23921	111121	caccacggaccagtcagtggccagt	W12383
25914	ttcctttccttcttcctgattcaga	L39790	68518	cgttgccctgcagtcccaggcagga	AA066333	111122	gtccacaggccgggatcgtcagacc	W12383
25915	tccttcttcctgattcagacttcgg	L39790	68519	gttgccctgcagtcccaggcaggat	AA066333	111123	cacaggccgggatcgtcagaccaac	W12383
25916	attcagacttcggaatgttgaccct	L39790	68520	attcagtaagctcgtgtccttccaa	AA066333	111124	ggatcgtcagaccaaccactgctac	W12383
25917	gaatgttgaccctcgcagggaagga	L39790	68521	cagtaagctcgtgtccttccaacttt	AA066333	111125	tcgtcagaccaaccactgctacatc	W12383
25918	ataatttagactctggtatggccaa	L39790	68522	agtaagctcgtgtccttccaacttg	AA066333	111126	cgccatcctcaacatcatccaggga	W12383
25919	tagactctggtatggccaaagattt	L39790	68523	gtaagctcgtgtccttccaacttgg	AA066333	111127	cacccaggtccacaagagcctgcag	W12383
25920	tgtcatctcgcaagggaacgaggat	L39790	68524	taagctcgtgtccttccaacttggc	AA066333	111128	ccaggtccacaagagcctgcagagg	W12383
25921	tggcgtcttccgaatccaccaaagg	L39790	68525	tcgtgtccttccaacttggccgaag	AA066333	111129	ggtccacaagagcctgcagaggatc	W12383
25922	gctcagctacctgcacacggccaag	L39790	68526	gtgtccttccaacttggccgaagag	AA066333	111130	ccacaagagcctgcagaggatccgg	W12383
25923	ctacctgcacacggccaagaagaag	L39790	68527	tgtccttccaacttggccgaagagc	AA066333	111131	gaaactggccaacttcatcccctgg	W12383
25924	cacatacacactggaaatcaccagc	L39790	68528	gtccttccaacttggccgaagagca	AA066333	111132	gaagacaacagtcctggatgtcatg	W12383
25925	gttgtattagccctctgcagacttg	L39790	68529	tccttccaacttggccgaagagcaa	AA066333	111133	gggcccagccagcatccaggtggcc	W12383
25926	ttagccctctgcagacttgggcctt	L39790	68530	ttgccctgcagtcccaggcaggatg	AA066333	111134	gacaacagtcctggatgtcatgagg	W12383
25927	ctctgcagacttgggccttgggcca	L39790	68531	tgccctgcagtcccaggcaggatgg	AA066333	111135	aacagtcctggatgtcatgaggcgc	W12383
25928	gaactcacatctcatccagcatatg	W75531	68532	gccctgcagtcccaggcaggatgga	AA066333	111136	tgtcatgaggcgcctgctacagccc	W12383
25929	ctcacatctcatccagcatatgaga	W75531	68533	tagttcatgagattccgggattcag	AA066333	111137	gcgcctgctacagcccaagaatgtg	W12383
25930	cattcagagctcacatctgattcac	W75531	68534	agttcatgagattccgggattcagt	AA066333	111138	cctgctacagcccaagaatgtgatg	W12383
25931	tcagagctcacatctgattcaccat	W75531	68535	catgagattccgggattcagtaagc	AA066333	111139	gctacagcccaagaatgtgatggtg	W12383
25932	gagctcacatctgattcaccatcac	W75531	68536	atgagattccgggattcagtaagct	AA066333	111140	acagcccaagaatgtgatggtgtcc	W12383
25933	ctcacatctgattcaccatcacaga	W75531	68537	tgagattccgggattcagtaagctc	AA066333	111141	cctccgtgctgaaggatgagactgt	M24263
25934	acatctgattcaccatcacagaatc	W75531	68538	caccctaaaccattttgacatgtg	AA066335	111142	tctcagtgcccaatggacagcccag	M24263
25935	tctgattcaccatcacagaatccat	W75531	68539	taaaccattttgacatgtgcgcatg	AA066335	111143	gacactaattccagtcatggtaggc	M24263
25936	gattcaccatcacagaatccatact	W75531	68540	tgatctacgaacgcatgaaaccagt	AA066335	111144	cactaattccagtcatggtaggcag	M24263
25937	taaagccttcagtcagaactcagcc	W75531	68541	tctacgaacgcatgaaaccagtctc	AA066335	111145	aattccagtcatggtaggcagggca	M24263
25938	agccttcagtcagaactcagccctt	W75531	68542	gcatgaaaccagtctcctgttcctg	AA066335	111146	ccagtcatggtaggcagggcaggct	M24263
25939	cttcagtcagaactcagcccttatt	W75531	68543	tgaaaccagtctcctgttcctgctc	AA066335	111147	taaaccaatcttgtggctgctgctg	M24263
25940	tctcatccagcatatgagagtccat	W75531	68544	aaccagtctcctgttcctgctctac	AA066335	111148	ccaatcttgtggctgctgctgtttt	M24263
25941	cagtcagaactcagcccttattctg	W75531	68545	cctgttcctgctctacgaatgtccc	AA066335	111149	tcttgtggctgctgctgttttctgc	M24263
25942	acccttcgaatgcaaagagtgtgga	W75531	68546	gttcctgctctacgaatgtcccttc	AA066335	111150	ggctgctgctgttttctgcttcaat	M24263
25943	gactaactccagccttcgaaggcac	W75531	68547	cctgctctacgaatgtcccttcggt	AA066335	111151	ctgctgctgttttctgcttcaatcc	M24263
25944	cagccttcgaaggcaccagagaatt	W75531	68548	gctctacgaatgtcccttcggttgc	AA066335	111152	gctgctgttttctgcttcaatccca	M24263
25945	ccttcgaaggcaccagagaattcac	W75531	68549	atgtcccttcggttgctaagaagat	AA066335	111153	tcagtgcccaatggacagcccaggc	M24263
25946	acccttgcttgcactgagtgtggc	W75531	68550	accattttgacatgtgcgcatggtg	AA066335	111154	gctgttttctgcttcaatcccagcc	M24263
25947	tgcttgcactgagtgtggcaaggcc	W75531	68551	ccccaagaaagcctgctcaggatcc	AA066335	111155	tgcccaatggacagcccaggcctag	M24263
25948	cttcattcagagctcacatctgatt	W75531	68552	gaaagcctgctcaggatccggtccc	AA066335	111156	caatggacagcccaggcctagaaac	M24263
25949	cggccctacattgcaagtgcttacc	U16242	68553	agcctgctcaggatccggtcccagg	AA066335	111157	atggacagcccaggcctagaaacct	M24263
25950	tacattgcaagtgcttaccgctcca	U16242	68554	caggtttatgaccacacttcgttgt	AA066335	111158	ggacagcccaggcctagaaaccttg	M24263
25951	aagcctatgcattatcttgcctgaa	U16242	68555	gtttatgaccacacttcgttgtgat	AA066335	111159	cagctctgtgctgtgatgcgtgagc	M24263
25952	tatcttgcctgaaagtcaagcctgc	U16242	68556	cacacttcgttgtgatctacgaacg	AA066335	111160	gctctgtgctgtgatgcgtgagcaa	M24263
25953	aagtcaagcctgcatatcgtggtct	U16242	68557	acttcgttgtgatctacgaacgcat	AA066335	111161	aggacactaattccagtcatggtag	M24263
25954	catatcgtggtctccatcaggccag	U16242	68558	ggctgcaacatagacctgcggtaag	AA066338	111162	acttggtcaagatcgccacaaccag	W34349
25955	gtggtctccatcaggccagaaatca	U16242	68559	gctgcaacatagacctgcggtaagg	AA066338	111163	tggtcaagatcgccacaaccagagc	W34349
25956	tccatcaggccagaaatcatatctc	U16242	68560	tagacctgcggtaaggcaaggtgct	AA066338	111164	ctaccagcacgacttggctctgctg	W34349
25957	gaaatcatatctctccattacacat	U16242	68561	acctgcggtaaggcaaggtgctggt	AA066338	111165	tctgctgcgcctgcaggaaagcaaa	W34349
25958	atatctctccattacacatgtatga	U16242	68562	tagcacaggggccaccaattaggca	AA066338	111166	aagcaaaaccaacagttgcgcgatc	W34349
25959	ctccattacacatgtatgatacata	U16242	68563	agcacaggggccaccaattaggcaa	AA066338	111167	aaccaacagttgcgcgatcctgtca	W34349
25960	tcatcaattgtatttctagtaggt	U16242	68564	gcacaggggccaccaattaggcaag	AA066338	111168	caacagttgcgcgatcctgtcacct	W34349
25961	gcaagtgcttaccgctccaagtctc	U16242	68565	cacaggggccaccaattaggcaagg	AA066338	111169	cagttgcgcgatcctgtcacctcac	W34349
25962	atccctttctacgttgtgatccttg	U16242	68566	ggccaccaattaggcaaggtcgttg	AA066338	111170	ttgcgcgatcctgtcacctcacgtt	W34349
25963	atccttgtcctgattgggatgctgg	U16242	68567	gccaccaattaggcaaggtcgttgg	AA066338	111171	cgcgatcctgtcacctcacgttcag	W34349
25964	gtctattccccaaggatgaaatgga	U16242	68568	ctgcaacatagacctgcggtaaggc	AA066338	111172	gatcctgtcacctcacgttcagcct	W34349
25965	gatgacttctcaagcgaagagcaat	U16242	68569	tgcaacatagacctgcggtaaggca	AA066338	111173	cctgtcacctcacgttcagcctgtg	W34349
25966	cagattccacaatgtcacaagtaat	U16242	68570	gcaacatagacctgcggtaaggcaa	AA066338	111174	tcaagatcgccacaaccagagctgc	W34349
25967	tgtcacaagtaattctcttcagtgg	U16242	68571	caacatagacctgcggtaaggcaag	AA066338	111175	agatcgccacaaccagagctgcgag	W34349
25968	aagtaattctcttcagtggacagaa	U16242	68572	aacatagacctgcggtaaggcaagg	AA066338	111176	tcgccacaaccagagctgcgagtgg	W34349
25969	tatgatgcacaccatgggacagaac	U22058	68573	acatagacctgcggtaaggcaaggt	AA066338	111177	gagctgcgagtggtgccagactctg	W34349
25970	gcacaccatgggacagaacttccag	U22058	68574	catagacctgcggtaaggcaaggtg	AA066338	111178	gtgccagactctggctgtgcgctcc	W34349
25971	atcttggcttcgattcttttgggtg	U22058	68575	atagacctgcggtaaggcaaggtgc	AA066338	111179	ccagactctggctgtgcgctcctac	W34349
25972	gcttcgattcttttgggtgcagttt	U22058	68576	aacagccacgagatttctgtactat	U60987	111180	catcacctaccagcacgacttggct	W34349
25973	tcgattcttttgggtgcagttttga	U22058	68577	atttctgtactatgaaatgggctac	U60987	111181	cacctaccagcacgacttggctctg	W34349
25974	gagcaacattctgctgttaacagac	U22058	68578	tgttcagcgtgtcctagagagtatc	U60987	111182	tcgcccggaggctggacaaaatggt	W12395
25975	caacattctgctgttaacagacagt	U22058	68579	ggacgaaaacacactgcatgaaatt	U60987	111183	agaatatgcctattacattgcactt	W12395
25976	cattctgctgttaacagacagttga	U22058	68580	tgaaattctctgcgaagtagatttg	U60987	111184	acttgctccagtccacccgtgttgg	W12395

TABLE 1

SEQ ID NO	sequence	DBAxnID
25977	tgaagccacacaatggacaaaatcc	U22058
25978	agccacacaatggacaaaatccatg	U22058
25979	gacaaaatccatgtcaattaccaca	U22058
25980	aattaccacaagaaattgtcgatga	U22058
25981	acagaacttccagaaatggggcttg	U22058
25982	tgtgttgctcatccaactttgaatt	U22058
25983	gttgctcatccaactttgaatttta	U22058
25984	tgcaacaacaaaggcaactgtcact	U22058
25985	aaaggcaactgtcactgtgttcgag	U22058
25986	ggcaactgtcactgtgttcgaggat	U22058
25987	cactgtgttcgaggatggcagccac	U22058
25988	tggcagccaccacattgtttacaaa	U22058
25989	cacatggattcttccaagtgtgatt	U22059
25990	gattcttccaagtgtgattcaacta	U22059
25991	attctctacatatctctgcccttac	U22059
25992	ctctacatatctctgcccttacttg	U22059
25993	aaactgagtcgtgtatgtgacagag	U22059
25994	agcgacagctctacaacagaagata	U22059
25995	gacagctctacaacagaagatagcg	U22059
25996	taatcaagtattgctaccccaaaag	U22059
25997	tcaagtattgctaccccaaaagaag	U22059
25998	gctaccccaaaagaagataatctgg	U22059
25999	cactctaaaccatgaactaataaat	U22059
26000	tctaaaccatgaactaataaatcag	U22059
26001	tcttccaagtgtgattcaactagag	U22059
26002	agagattgcaacgaccatggggttt	U22059
26003	gattgcaacgaccatggggtttgca	U22059
26004	tgcaacaatttacagcattgccact	U22059
26005	aatttacagcattgccactgtgata	U22059
26006	cattgccactgtgatataggatata	U22059
26007	aatcagcttcagctcattctctaca	U22059
26008	cttcagctcattctctacatatctc	U22059
26009	gctcagttgcaacctaaagaggtgg	W82852
26010	cataagacttattccatggctacca	W82852
26011	gctgccccagaccagatagcaggtg	W82852
26012	gtgcagcttcctgtccaggtaccaa	W82852
26013	cagcttcctgtccaggtaccaaaca	W82852
26014	caggtaccaaacaccgatattcagg	W82852
26015	gtaccaaacaccgatattcaggcca	W82852
26016	aacaccgatattcaggccagccagc	W82852
26017	gatattcaggccagccagcgacgtc	W82852
26018	attcaggccagccagcgacgtcatg	W82852
26019	caggccagccagcgacgtcatgtgt	W82852
26020	cagcgacgtcatgtgtgtggact	W82852
26021	acttattccatggctaccaagtcct	W82852
26022	tattccatggctaccaagtcctctg	W82852
26023	tccatggctaccaagtcctctgcag	W82852
26024	accaagtcctctgcaggggcacagc	W82852
26025	aagtcctctgcaggggcacagccac	W82852
26026	tcctctgcaggggcacagccaccta	W82852
26027	ggggcacagccacctaccaaagctg	W82852
26028	aaagctgccccagaccagatagcag	W82852
26029	tcttttctccaccgagctttcagac	AA013648
26030	caccgagctttcagacgcccagggt	AA013648
26031	cctatcgtctggaagcgaaggcagg	AA013648
26032	catcgtcagcatctccctgggcaag	AA013648
26033	cgtcagcatctccctgggcaagatc	AA013648
26034	catctccctgggcaagatctacaac	AA013648
26035	ctccctgggcaagatctacaactcg	AA013648
26036	caagatctacaactcgcgggtccag	AA013648
26037	cggcatcaagctgcacaagaacctc	AA013648
26038	catcaagctgcacaagaacctcttg	AA013648
26039	caagctgcacaagaacctcttggtg	AA013648
26040	ggtgtcgttggtgctgcgcacgccc	AA013648
26041	ttcagacgcccagggtacaaccaca	AA013648
26042	gggtacaaccacagaggaagacctg	AA013648
26043	tcctctcgcagcttcagaaggcaag	AA013648
26044	tctcgcagcttcagaaggcaagcag	AA013648

SEQ ID NO	sequence	DBAxnID
68581	gcacgagtttctgcagctgatgagc	U60987
68582	gtttctgcagctgatgagcgcagtt	U60987
68583	ggtctctggaagccgacttgccatc	U60987
68584	ccgacttgccatcctgatgaaaact	U60987
68585	tgccatcctgatgaaaactgccgag	U60987
68586	aggacagccagcgctatgtacaacc	U60987
68587	agtggatctcgtagctgccttttt	U60987
68588	gggctacaagtctcgaacagaacaa	U60987
68589	tcgaacagaacaacttacagatagc	U60987
68590	agaacaacttacagatagcactgaa	U60987
68591	cactgaaatcagcctgctgccttca	U60987
68592	aatcagcctgctgccttcagacatc	U60987
68593	cctgctgccttcagacatcgatagg	U60987
68594	gccttcagacatcgataggtacaag	U60987
68595	cttcattaccattgttgatgttcag	U60987
68596	cccagagcacggcgaggtacccgtg	AA066391
68597	attaccccagttgaactgggcatca	AA066391
68598	accaagctgggacgacatcgatgag	AA066391
68599	atgagatctggcaccaaccttctac	AA066391
68600	agatctggcaccaaccttctacaat	AA066391
68601	gatctggcaccaaccttctacaatg	AA066391
68602	ctggcaccaaccttctacaatgagc	AA066391
68603	ggcaccaaccttctacaatgagctg	AA066391
68604	gcaccaaccttctacaatgagctgc	AA066391
68605	ctgcgtgtgtccccggtagtagcac	AA066391
68606	caccgtgcctggcatggtttgtggc	AA066391
68607	tgcctggcatggtttgtggctatcc	AA066391
68608	ttaccccagttgaactgggcatcat	AA066391
68609	cagttgaactgggcatcatgcacca	AA066391
68610	aactgggcatcatgcaccaagctgg	AA066391
68611	atcatgcaccaagctgggacgacat	AA066391
68612	tcatgcaccaagctgggacgacatc	AA066391
68613	atgcaccaagctgggacgacatcga	AA066391
68614	tgcaccaagctgggacgacatcgat	AA066391
68615	caccaagctgggacgacatcgatga	AA066391
68616	tttgtgcctttgatatcagctgacc	U12473
68617	atatcagctgaccataatgaattgt	U12473
68618	ttctgatctgacactggatctgctt	U12473
68619	tctgacactggatctgcttatccca	U12473
68620	tctgcttatcccatttagtgtgaat	U12473
68621	tatcccatttagtgtgaatattcat	U12473
68622	caggctctcttgaaggttgatgtag	U12473
68623	cgtatgcactgaattacctttctaa	U12473
68624	cactgaattacctttctaaaatctg	U12473
68625	gaacagttctcattctgaaacatct	U12473
68626	ttctcattctgaaacatctagactt	U12473
68627	ttctgaaacatctagacttaagggt	U12473
68628	ttaaacaatcttttatgtcttgtca	U12473
68629	aatcttttatgtcttgtcatacaaa	U12473
68630	ttatgtcttgtcatacaaattccaa	U12473
68631	aagggtctgcattcctttatctgta	U12473
68632	tcctttatctgtaattacagtctca	U12473
68633	aattacagtctcagaatccaagttc	U12473
68634	agtctcagaatccaagttctgaaaa	U12473
68635	tatctattctgatctgacactggat	U12473
68636	gcccgtcgccatggctgcctacaag	AA065739
68637	cgtcgccatggctgcctacaagctg	AA065739
68638	tggagaaccgcttcaggcaatggta	AA065739
68639	ggagaaccgcttcaggcaatggtac	AA065739
68640	gagaaccgcttcaggcaatggtacg	AA065739
68641	agaaccgcttcaggcaatggtacga	AA065739
68642	gaaccgcttcaggcaatggtacgac	AA065739
68643	aaccgcttcaggcaatggtacgacg	AA065739
68644	accgcttcaggcaatggtacgacgc	AA065739
68645	ccgcttcaggcaatggtacgacgcc	AA065739
68646	cgcttcaggcaatggtacgacgccg	AA065739
68647	cttcaggcaatggtacgacgccgac	AA065739
68648	gtcgccatggctgcctacaagctgg	AA065739

SEQ ID NO	sequence	DBAxnID
111185	tgctccagtccacccgtgttgggat	W12395
111186	gctccagtccacccgtgttgggatg	W12395
111187	ccagtccacccgtgttgggatgtct	W12395
111188	agtccacccgtgttgggatgtctgt	W12395
111189	ccacccgtgttgggatgtctgtcaa	W12395
111190	cacccgtgttgggatgtctgtcaat	W12395
111191	gatgtctgtcaatgctctgcgcaac	W12395
111192	tgtctgtcaatgctctgcgcaacga	W12395
111193	gtctgtcaatgctctgcgcaacgag	W12395
111194	gaatatgcctattacattgcacttg	W12395
111195	tatgcctattacattgcacttgctc	W12395
111196	tgcctattacattgcacttgctcca	W12395
111197	ctattacattgcacttgctccagtc	W12395
111198	tattacattgcacttgctccagtcc	W12395
111199	ttacattgcacttgctccagtccac	W12395
111200	attgcacttgctccagtccacccgt	W12395
111201	tgcacttgctccagtccacccgtgt	W12395
111202	catctacctcagcctgttcccggaa	W18601
111203	atctacctcagcctgttcccggaag	W18601
111204	tgttcccggaagtgcatctgcttgt	W18601
111205	gttcccggaagtgcatctgcttgtc	W18601
111206	cccggaagtgcatctgcttgtctcg	W18601
111207	atctgcttgtctcgggcgagatggc	W18601
111208	tgcttgtctcgggcgagatggcttc	W18601
111209	gcttgtctcgggcgagatggcttca	W18601
111210	tctacctcagcctgttcccggaagt	W18601
111211	ctacctcagcctgttcccggaagtg	W18601
111212	tacctcagcctgttcccggaagtgc	W18601
111213	acctcagcctgttcccggaagtgca	W18601
111214	cctcagcctgttcccggaagtgcat	W18601
111215	tcagcctgttcccggaagtgcatct	W18601
111216	gcctgttcccggaagtgcatctgct	W18601
111217	cctgttcccggaagtgcatctgctt	W18601
111218	aggatcaccagtagtcgcttcaaga	X70058
111219	accagtagtcgcttcaagacaaaga	X70058
111220	gttgatcacggtcctaagggatagg	X70058
111221	tgaaatggtcacgcctaaggaatgg	X70058
111222	aatggtcacgcctaaggaatggtct	X70058
111223	tttaattagccatgtactttggtgt	X70058
111224	tagccatgtactttggtgtgatttg	X70058
111225	aaagctctggagacctcatgtcact	X70058
111226	gctctggagacctcatgtcacttta	X70058
111227	ctggagacctcatgtcactttaacg	X70058
111228	tcatgtcactttaacgttgtgttag	X70058
111229	tttaacgttgtgttagctgcagaat	X70058
111230	agtcgcttcaagacaaagaagggca	X70058
111231	gaagtctgcgctgaagcccatcaga	X70058
111232	gtctgcgctgaagcccatcagaagt	X70058
111233	agaagcaaaattcctcaccgctgtt	X70058
111234	agcaaaattcctcaccgctgttctt	X70058
111235	cctcaccgctgttctttctgagaac	X70058
111236	caccgctgttctttctgagaactgt	X70058
111237	tgtgttgatcacggtcctaagggat	X70058
111238	cgatggcccagcagcagatgaccag	W99019
111239	atggcccagcagcagatgaccagct	W99019
111240	ccctgatgcttgagctgaaatccct	W99019
111241	tgagctgaaatccctgcaggaggaa	W99019
111242	ggcttccggatcaccctggtggatg	W99019
111243	gatcaccctggtggatgagtccgac	W99019
111244	tcaccctggtggatgagtccgacct	W99019
111245	accctggtggatgagtccgacctct	W99019
111246	atgagtccgacctctacaactggga	W99019
111247	cggctacttcaaggcacatattaag	W99019
111248	gctacttcaaggcacatattaagtt	W99019
111249	tacttcaaggcacatattaagtttc	W99019
111250	cccagcagcagatgaccagctcgca	W99019
111251	agcagatgaccagctcgcagaaagc	W99019
111252	gatgaccagctcgcagaaagccctg	W99019

TABLE 1

SEQ ID NO	sequence	DBAxnID
26045	agcttcagaaggcaagcaggcgttc	AA013648
26046	caagcaggcgttcaccctatcgtct	AA013648
26047	gcaggcgttcaccctatcgtctgga	AA013648
26048	caccctatcgtctggaagcgaaggc	AA013648
26049	aggatcacagttccttattgtgaca	U17297
26050	acagttccttattgtgacatccttc	U17297
26051	agccttgagcccagcagggttttct	U17297
26052	gagcccagcagggttttctagaggt	U17297
26053	gagcacttccacctggactcaagtt	U17297
26054	tcctggtaaaacaccttggagacag	U17297
26055	aatttcctgtccagacaccaactgg	U17297
26056	agacaccaactggcctttgcttctg	U17297
26057	caactggcctttgcttctgtgcctt	U17297
26058	gcctttgcttctgtgccttgtgaat	U17297
26059	gcttctgtgccttgtgaattagtaa	U17297
26060	ccccttcagctgtgtacaataaagt	U17297
26061	ccttattgtgacatccttcccttgg	U17297
26062	tgtgacatccttcccttggcctgga	U17297
26063	cttgactcagctggaggagcctgga	U17297
26064	ggttccctgtcacagtagtactgtt	U17297
26065	tactgttgacacctgccctgagctg	U17297
26066	tgagctgttcactgccaggcccacg	U17297
26067	gttcactgccaggcccacgtggagc	U17297
26068	cccatgacagacactctgtccctaa	U17297
26069	tgcccagaatacctgagctctgagc	W75644
26070	ccagaatacctgagctctgagcgta	W75644
26071	cccagaccctgaggcagcaacttta	W75644
26072	ccctgaggcagcaactttacccaga	W75644
26073	ggcagcaactttacccagagggctc	W75644
26074	agcaactttacccagagggctctgt	W75644
26075	aactttacccagagggctctgtgtg	W75644
26076	acccagagggctctgtgtgcagtct	W75644
26077	cagagggctctgtgtgcagtctgtg	W75644
26078	agggctctgtgtgcagtctgtgaag	W75644
26079	gaagaccagcaagctttccggacct	W75644
26080	gaccagcaagctttccggaccttgg	W75644
26081	gaatacctgagctctgagcgtagtg	W75644
26082	ctgagctctgagcgtagtgcggccc	W75644
26083	agctctgagcgtagtgcggcccagc	W75644
26084	cagcagcgtgcgtcggtttgaaagc	W75644
26085	gtttgaaagctcggctccaacccag	W75644
26086	ggctccaacccagcggacttcagaa	W75644
26087	tccaacccagcggacttcagaagca	W75644
26088	ccagcggacttcagaagcagcgggt	W75644
26089	aatcgacagctgagcagaagagtgt	W75646
26090	atatgaaatacctctgatcgctggt	W75646
26091	tgagcaacttctctgggctgatcta	W75646
26092	agcaacttctctgggctgatctagc	W75646
26093	acttctctgggctgatctagcatgt	W75646
26094	ttctctgggctgatctagcatgtga	W75646
26095	ctctgggctgatctagcatgtgaat	W75646
26096	tgaatactactgagagcgtagtgga	W75646
26097	aatactactgagagcgtagtggata	W75646
26098	gatattcagggcgatcttgggtaca	W75646
26099	tattcagggcgatcttgggtacatc	W75646
26100	tcttgggtacatctatctgtgcttt	W75646
26101	atgaaatacctctgatcgctggtgc	W75646
26102	aatacctctgatcgctggtgcgtgt	W75646
26103	tacctctgatcgctggtgcgtgtcc	W75646
26104	cgtgtccctgaacgtgagcaacttc	W75646
26105	tgtccctgaacgtgagcaacttctc	W75646
26106	tccctgaacgtgagcaacttctctg	W75646
26107	aacgtgagcaacttctctgggctga	W75646
26108	cgtgagcaacttctctgggctgatc	W75646
26109	gaaattgtctcaaagcctgtgcatc	W75614
26110	aaattgtctcaaagcctgtgcatct	W75614
26111	ctgcgcgtgtgcttggattggaaga	W75614
26112	gaagagtctgttcgctggagctcca	W75614
68649	tcgccatggctgcctacaagctggt	AA065739
68650	gccatggctgcctacaagctggtgc	AA065739
68651	atccggcatggcgagacggcctgga	AA065739
68652	catggcgagacggcctggaacctgg	AA065739
68653	aacctggagaaccgcttcaggcaat	AA065739
68654	acctggagaaccgcttcaggcaatg	AA065739
68655	ctggagaaccgcttcaggcaatggt	AA065739
68656	aactagtcagttgcaccaagtgaac	U12922
68657	gcaccaagtgaactccgacctactt	U12922
68658	tcataccttatttggcattgctggg	U12922
68659	cttatttggcattgctgggttgtca	U12922
68660	tggcattgctgggttgtcacttctg	U12922
68661	gatcaagcctgttagccctgtcttc	U12922
68662	gcctgttagccctgtcttctgtatg	U12922
68663	tagccctgtcttctgtatgccagaa	U12922
68664	tgtcttctgtatgccagaagaggtg	U12922
68665	gaatgtccagcctgagctagtgagc	U12922
68666	ccagcctgagctagtgagctagtca	U12922
68667	ttatcaaacctagacgtgacttaat	U12922
68668	cctacttggttggtggctttgtgag	U12922
68669	ttgtgaggcgcagttgccctcaggc	U12922
68670	ctcaggcgcactcaatggaagacgc	U12922
68671	cgcactcaatggaagacgcgagaag	U12922
68672	gttggcctccctaaagatcatcggg	U12922
68673	ctccctaaagatcatcgggagactt	U12922
68674	atttgcagacagaccaggagatatg	U12922
68675	tccctttcatacctatttggcatt	U12922
68676	gaattgcaatccgggaccgcctggg	AA065811
68677	tgcaatccgggaccgcctggggctc	AA065811
68678	ccaagtcgccaacgcactgtcaaac	AA065811
68679	caagtcgccaacgcactgtcaaacc	AA065811
68680	agtcgccaacgcactgtcaaaccta	AA065811
68681	gtcgccaacgcactgtcaaacctaa	AA065811
68682	tcgccaacgcactgtcaaacctaag	AA065811
68683	gccaacgcactgtcaaacctaagcg	AA065811
68684	ccaacgcactgtcaaacctaagcgc	AA065811
68685	caacgcactgtcaaacctaagcgct	AA065811
68686	acgcactgtcaaacctaagcgctgg	AA065811
68687	cgcactgtcaaacctaagcgctggg	AA065811
68688	cgcctggggctctggttgaaccaag	AA065811
68689	gcctggggctctggttgaaccaagt	AA065811
68690	tggttgaaccaagtcgccaacgcac	AA065811
68691	ggttgaaccaagtcgccaacgcact	AA065811
68692	ttgaaccaagtcgccaacgcactgt	AA065811
68693	tgaaccaagtcgccaacgcactgtc	AA065811
68694	gaaccaagtcgccaacgcactgtca	AA065811
68695	accaagtcgccaacgcactgtcaaa	AA065811
68696	ccagttcaagctcgtcctaggtggg	AA065818
68697	cagttcaagctcgtcctaggtgggc	AA065818
68698	ctgtcgtctaggccacttgtccatt	AA065818
68699	tgtcgtctaggccacttgtccatta	AA065818
68700	gtcgtctaggccacttgtccattat	AA065818
68701	tcgtctaggccacttgtccattata	AA065818
68702	cgtctaggccacttgtccattataa	AA065818
68703	gtctaggccacttgtccattataaa	AA065818
68704	tctaggccacttgtccattataaac	AA065818
68705	ttttggataccaacagaggggccat	AA065818
68706	tttggataccaacagaggggccatc	AA065818
68707	gggccatcaaagtcaacgtgtgtga	AA065818
68708	ggccatcaaagtcaacgtgtgtgac	AA065818
68709	aagtcaacgtgtgtgacacgggcgg	AA065818
68710	ggactgtcgtctaggccacttgtcc	AA065818
68711	gactgtcgtctaggccacttgtcca	AA065818
68712	actgtcgtctaggccacttgtccat	AA065818
68713	gaggcagtcccggagaattgaccgc	AA065824
68714	aaagccagcgcacgccgtggaaatc	AA065824
68715	caaacttctcctgctgggcaccaca	AA065824
68716	aaacttctcctgctgggcaccacaa	AA065824
111253	accagctcgcagaaagccctgatgc	W99019
111254	cagctcgcagaaagccctgatgctt	W99019
111255	tcgcagaaagccctgatgcttgagc	W99019
111256	gcagaaagccctgatgcttgagctg	W99019
111257	aaagccctgatgcttgagctgaaat	W99019
111258	tgtcatcacactccttaacactgtg	M77497
111259	cacactccttaacactgtgcactac	M77497
111260	tatgcacattcgctgagtactgcgc	M77497
111261	cattcgctgagtactgcgcccaggg	M77497
111262	ggttcactgtcataggcctccattg	M77497
111263	ctgtcataggcctccattgatatct	M77497
111264	gatatctctctcacatgatcttccc	M77497
111265	tctctcacatgatcttcccttaacc	M77497
111266	agcccatcttcatggaaagaatgac	M77497
111267	ttatacgcacagaacctattctatg	M77497
111268	gcacagaacctattctatgatgcac	M77497
111269	ttctatgatgcacccttttcctgtc	M77497
111270	cactgtgcactacgactcggaccag	M77497
111271	gacgcctcaggagttcaatcctgaa	M77497
111272	ttcggctggacgtcgactgtgtctg	M77497
111273	gctcttcatatacttcacctccatt	M77497
111274	tctgcagaacttcacattgcagccg	M77497
111275	gaacttcacattgcagccgctggtg	M77497
111276	cacattgcagccgctggtggatcct	M77497
111277	tttccagctgtgtatgcacattcgc	M77497
111278	cggcatcacctctgttgcatacacg	W12466
111279	gcatcacctctgttgcatacacgcg	W12466
111280	tatcctcgctggccaagatatacgt	W12466
111281	tacgtgtgagttgcctctgggtaag	W12466
111282	ttgcctctgggtaagatatgacgga	W12466
111283	gctacaggttcctggtgcatctacc	W12466
111284	tacaggttcctggtgcatctacctc	W12466
111285	caggttcctggtgcatctacctcaa	W12466
111286	ggttcctggtgcatctacctcaaga	W12466
111287	tggtgcatctacctcaagatcctgg	W12466
111288	gtgcatctacctcaagatcctggac	W12466
111289	gcatctacctcaagatcctggacta	W12466
111290	tgttgcatacacgcgcagaccgagc	W12466
111291	atctacctcaagatcctggactaat	W12466
111292	ttgcatacacgcgcagaccgagctg	W12466
111293	atacacgcgcagaccgagctgctgc	W12466
111294	acacgcgcagaccgagctgctgctc	W12466
111295	acgcgcagaccgagctgctgctcga	W12466
111296	agaccgagctgctgctcgatggcta	W12466
111297	accgagctgctgctcgatggctacg	W12466
111298	ggtatcctcgctggccaagatatac	W12466
111299	actcagaccctgctgcggaagaagg	AA111631
111300	cagaccctgctgcggaagaaggaga	AA111631
111301	aagcagcgcctgaacagccagtcca	AA111631
111302	cagcgcctgaacagccagtccaagc	AA111631
111303	ctgaacagccagtccaagcgcacaa	AA111631
111304	aacagccagtccaagcgcacaatcg	AA111631
111305	agccagtccaagcgcacaatcgagg	AA111631
111306	tccaagcgcacaatcgaggggctcc	AA111631
111307	aagcgcacaatcgaggggctccggg	AA111631
111308	ccgtcaggcatcgctaccctggtct	AA111631
111309	tcaggcatcgctaccctggtctctg	AA111631
111310	ggcatcgctaccctggtctctggca	AA111631
111311	accctgctgcggaagaaggagaaag	AA111631
111312	acaatggacgcactccaggctgaca	AA111631
111313	gacgcactccaggctgacatcgacc	AA111631
111314	gcactccaggctgacatcgaccagc	AA111631
111315	gctgacatcgaccagctggaggcag	AA111631
111316	gacatcgaccagctggaggcagaga	AA111631
111317	atcgaccagctggaggcagagaagg	AA111631
111318	ctcaagcagcgcctgaacagccagt	AA111631
111319	gaaatgctgggagccgcttggcctg	M60798
111320	tgcgcagtaaacattccctgtgtgg	M60798

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26113	gagtctgttcgctggagctccacgc	W75614	68717	tctcctgctgggcaccacaacgtcg	AA065824	111321	agactcaactgctaccctcaaacca	M60798
26114	agtctgttcgctggagctccacgca	W75614	68718	ctcctgctgggcaccacaacgtcgg	AA065824	111322	actcaactgctaccctcaaaccatt	M60798
26115	tggagctccacgcagccagaagtcg	W75614	68719	ctgctgggcaccacaacgtcgggca	AA065824	111323	ctcaaaccattaaactgtaatctga	M60798
26116	agctccacgcagccagaagtcggaa	W75614	68720	gctgggcaccacaacgtcgggcaag	AA065824	111324	tgtaactgtgtgactcctttgactg	M60798
26117	gctccacgcagccagaagtcggaaa	W75614	68721	ctgggcaccacaacgtcgggcaaga	AA065824	111325	actgtgtgactcctttgactgggct	M60798
26118	tccacgcagccagaagtcggaaagt	W75614	68722	gggcaccacaacgtcgggcaagagc	AA065824	111326	tgtgtgactcctttgactgggctaa	M60798
26119	ccacgcagccagaagtcggaaagtg	W75614	68723	ggcaccacaacgtcgggcaagagca	AA065824	111327	tgtgactcctttgactgggctaagg	M60798
26120	tcctctatgtaggttccaaactaag	W75614	68724	accacaacgtcgggcaagagcacca	AA065824	111328	tgactcctttgactgggctaaggac	M60798
26121	attgtctcaaagcctgtgcatctat	W75614	68725	gccagcgcacgccgtggaaatcaaa	AA065824	111329	tcctttgactgggctaaggacagca	M60798
26122	ttgtctcaaagcctgtgcatctatc	W75614	68726	ccagcgcacgccgtggaaatcaaac	AA065824	111330	ctttgactgggctaaggacagcaat	M60798
26123	gtctcaaagcctgtgcatctatctg	W75614	68727	agcgcacgccgtggaaatcaaactt	AA065824	111331	cgcagtaaacattccctgtgtggtc	M60798
26124	tcaaagcctgtgcatctatctgcgc	W75614	68728	gcgcacgccgtggaaatcaaacttc	AA065824	111332	agactgtgtacaactcactgaattc	M60798
26125	caaagcctgtgcatctatctgcgcg	W75614	68729	ggaaatcaaacttctcctgctgggc	AA065824	111333	gtaaacattccctgtgtggtctgaa	M60798
26126	catctatctgcgcgtgtgcttggat	W75614	68730	gaaatcaaacttctcctgctgggca	AA065824	111334	acattccctgtgtggtctgaagtct	M60798
26127	ctatctgcgcgtgtgcttggattgg	W75614	68731	aatcaaacttctcctgctgggcacc	AA065824	111335	attccctgtgtggtctgaagtctca	M60798
26128	tatctgcgcgtgtgcttggattgga	W75614	68732	atcaaacttctcctgctgggcacca	AA065824	111336	ctgaagtctcagactcaactgctac	M60798
26129	tgctaagtgcctagagccaatcccc	W75616	68733	atgctccagaatttctgacgccaac	U19891	111337	gaagtctcagactcaactgctaccc	M60798
26130	taagtgcctagagccaatccccaat	W75616	68734	tgactttgctgggtcatttcaagga	U19891	111338	agtctcagactcaactgctaccctc	M60798
26131	ttccgatgctcactaccgaaccacg	W75616	68735	catgaacgccatggctaacagagat	U19891	111339	tctcagactcaactgctaccctcaa	M60798
26132	tccgatgctcactaccgaaccacgt	W75616	68736	caaacagctcaagtgggaagctgag	U19891	111340	agtacccagaccgcatcatgaacac	AA059763
26133	cgatgctcactaccgaaccacgtac	W75616	68737	tgactggctgcacaacagagatgtg	U19891	111341	tacccagaccgcatcatgaacacct	AA059763
26134	ggtgctgctacgactctacggggcc	W75616	68738	gaagtgacatcttcagggtgacaat	U19891	111342	gatgaaacctattccattgacaatg	AA059763
26135	gctgctacgactctacggggccatc	W75616	68739	tcaaccatttttcctcatctttctc	U19891	111343	atgaaacctattccattgacaatga	AA059763
26136	tgctacgactctacggggccatcct	W75616	68740	ctttctctctaactccatacattcc	U19891	111344	tgaaacctattccattgacaatgag	AA059763
26137	gctacgactctacggggccatcctg	W75616	68741	ctctaactccatacattccagactg	U19891	111345	aaacctattccattgacaatgaggc	AA059763
26138	tacgactctacggggccatcctgca	W75616	68742	ctccatacattccagactgttcaat	U19891	111346	aacctattccattgacaatgaggct	AA059763
26139	acgactctacggggccatcctgcag	W75616	68743	acattccagactgttcaatggattt	U19891	111347	acctattccattgacaatgaggctc	AA059763
26140	gactctacggggccatcctgcaggg	W75616	68744	ttccagactgttcaatggatttgta	U19891	111348	cctattccattgacaatgaggctct	AA059763
26141	aagtgcctagagccaatccccaatc	W75616	68745	aagtttcaatgactccagcctgttt	U19891	111349	tattccattgacaatgaggctctgt	AA059763
26142	actctacggggccatcctgcagggt	W75616	68746	caatgactccagcctgtttgtctct	U19891	111350	attccattgacaatgaggctctgta	AA059763
26143	gtgcctagagccaatccccaatcgg	W75616	68747	cctgtttgtctctgctgaggagttt	U19891	111351	gctctgtatgacatctgtttccgca	AA059763
26144	cctagagccaatccccaatcggcgg	W75616	68748	tgtctctgctgaggagtttggccat	U19891	111352	acccagaccgcatcatgaacacctt	AA059763
26145	ccgagcctatcagtggtgccgggag	W75616	68749	ggagtttggccatctgctggatgag	U19891	111353	ccagaccgcatcatgaacaccttca	AA059763
26146	gagcctatcagtggtgccgggagta	W75616	68750	tggccatctgctggatgagaatatg	U19891	111354	agaccgcatcatgaacaccttcagc	AA059763
26147	cctatcagtggtgccgggagtacct	W75616	68751	gaatatgggctccaagtttgatact	U19891	111355	caccctctcagtgcaccagctggta	AA059763
26148	gtcccgtgagcggaggcctcagcaa	W75616	68752	tattggcatgaacgccatggctaac	U19891	111356	accctctcagtgcaccagctggtag	AA059763
26149	tcttccgatgctcactaccgaacca	W75616	68753	atgagaacaccgtggacgtgtatgg	D45212	111357	ctcagtgcaccagctggtagagaac	AA059763
26150	gctcgctaacttcccgaggcacgtg	U21011	68754	agaacaccgtggacgtgtatgggat	D45212	111358	acagatgaaacctattccattgaca	AA059763
26151	taacttcccgaggcacgtgatagcg	U21011	68755	tctatcagaacacaacggcaatgac	D45212	111359	agatgaaacctattccattgacaat	AA059763
26152	ctccgcgaagctgaagcaactgaaa	U21011	68756	atcagaacacaacggcaatgacaat	D45212	111360	ttctcaccacctttctaactactca	L06322
26153	gagctcacctttactgtgtgctgtt	U21011	68757	caatctatgaaaacctcgagccagt	D45212	111361	tcaccacctttctaactactcagct	L06322
26154	actgtgtgctgttctgggtagtgct	U21011	68758	acctcgagccagtgagcatgtttgg	D45212	111362	tgtaatcccagtcatagtggaggct	L06322
26155	cctggcctagcagcatccggaaagt	U21011	68759	atggttacatcgcctagttccaaag	D45212	111363	aatcccagtcatagtggaggctgag	L06322
26156	ctagcagcatccggaaagtgtttag	U21011	68760	tcacacccacagtgaaggagagcgc	D45212	111364	cccagtcatagtggaggctgaggct	L06322
26157	cttgaaaacattaccgtctgtagct	U21011	68761	agagcgccctgacgggacatgtttt	D45212	111365	attaaggaccaacagcctgggcaat	L06322
26158	aacattaccgtctgtagctgagtgc	U21011	68762	gcgccctgacgggacatgttttata	D45212	111366	gaccaacagcctgggcaatttagtg	L06322
26159	attaccgtctgtagctgagtgctgt	U21011	68763	gaaatcagctgccttcctgatcact	D45212	111367	caacagcctgggcaatttagtgtct	L06322
26160	accgtctgtagctgagtgctgttta	U21011	68764	atcagctgccttcctgatcactaat	D45212	111368	gtatccctgtggggctgtggacagt	L06322
26161	gtctgtagctgagtgctgtttaaat	U21011	68765	acaccgtggacgtgtatgggattgt	D45212	111369	tgaaaccgagtaagcctttgtgtca	L06322
26162	gatagcgtgcgccaagcagaaggct	U21011	68766	ttgtctatgaccttcggatgcacag	D45212	111370	gtaagcctttgtgtcaagaagtggg	L06322
26163	cattggaacctcgctgggatgtgac	U21011	68767	tctatgaccttcggatgcacaggcc	D45212	111371	agcctttgtgtcaagaagtgggagt	L06322
26164	atgtgacgaagccgagccggctgca	U21011	68768	accttcggatgcacaggcctctgat	D45212	111372	ttctaactactcagctaaactcgtt	L06322
26165	cgaagccgagccggctgcaaagaga	U21011	68769	ggatgcacaggcctctgatggtgca	D45212	111373	taactactcagctaaactcgttgag	L06322
26166	aattattctggagttcctgtcgaag	U21011	68770	acaggcctctgatggtgcagacaga	D45212	111374	ctactcagctaaactcgttgaggct	L06322
26167	tctggagttcctgtcgaaggtcaag	U21011	68771	tcctcaatcagtgtgttttggatat	D45212	111375	actcgttgaggctagggccaacgtg	L06322
26168	gccctttactgccatgtcggaggag	U21011	68772	aagttgatctcatctatcagaacac	D45212	111376	ggccaacgtgacttctctgtagaga	L06322
26169	tactgccatgtcggaggagagcatc	U21011	68773	atcgagggcaccttaggatcgtctt	D70848	111377	caacgtgacttctctgtagagagga	L06322
26170	cgatgacgagtccttgggctgcatc	W75705	68774	aagcaaaatctctctgtatgtctga	D70848	111378	gcaggcctgtgtaatcccagtcata	L06322
26171	gatgacgagtccttgggctgcatct	W75705	68775	acatgcttcctagtcttttgacaaa	D70848	111379	ctgtgtaatcccagtcatagtggag	L06322
26172	ggaactgccggcagttcaatctacg	W75705	68776	gcttcctagtcttttgacaaactgt	D70848	111380	ggggccccagtcaacgtctcctcat	W30116
26173	aactgccggcagttcaatctacgga	W75705	68777	tgacaaactgtacatagcggacgcc	D70848	111381	ccagtcaacgtctcctcatctgatc	W30116
26174	tgccggcagttcaatctacggagaa	W75705	68778	actgtacatagcggacgccttcctt	D70848	111382	gacaagatacctctcgcatgtccac	W30116
26175	gccggcagttcaatctacggagaaa	W75705	68779	tgtacatagcggacgccttcctttt	D70848	111383	caagatacctctcgcatgtccacct	W30116
26176	tcatcttaaagcttacgggtcctgg	W75705	68780	ttaacggcttattggcttattggtg	D70848	111384	ctctcgcatgtccacctcacagatt	W30116
26177	ttacgggtcctggcaccttgtcgat	W75705	68781	cggcttattggcttattggtggata	D70848	111385	catgtccacctcacagattcccggt	W30116
26178	ggcaccttgtcgatggcaattgcgg	W75705	68782	gcttattggcttattggtggataga	D70848	111386	tcacagattcccggtcgggtggctt	W30116
26179	gcaccttgtcgatggcaattgcggg	W75705	68783	ttattggcttattggtggatagaag	D70848	111387	gggtggcttccagtggtcttcagtc	W30116
26180	caccttgtcgatggcaattgcggga	W75705	68784	tgtgttccttttaaatgaggcaact	D70848	111388	tccagtggtcttcagtctgtcgtgc	W30116

TABLE 1

SEQ ID NO	sequence	DBAxnID
26181	accttgtcgatggcaattgcgggac	W75705
26182	atgacgagtccttgggctgcatctc	W75705
26183	tgacgagtccttgggctgcatctcc	W75705
26184	acgagtccttgggctgcatctcctt	W75705
26185	cgagtccttgggctgcatctccttc	W75705
26186	gagtccttgggctgcatctccttcg	W75705
26187	agtccttgggctgcatctccttcga	W75705
26188	gtccttgggctgcatctccttcgag	W75705
26189	tccttgggctgcatctccttcgagc	W75705
26190	cagccgtctgtgctgcgccggacct	W75713
26191	tctgtgctgcgccggacctacacgc	W75713
26192	atgtccaagtaccagctgggcatgc	W75713
26193	cagctgggcatgctgcacttcagca	W75713
26194	ggcatgctgcacttcagcacacagt	W75713
26195	atgctgcacttcagcacacagtatg	W75713
26196	ctgcacttcagcacacagtatgacc	W75713
26197	ttcagcacacagtatgacctgctac	W75713
26198	agcacacagtatgacctgctacaca	W75713
26199	acacagtatgacctgctacacaacc	W75713
26200	tatgacctgctacacaaccacctca	W75713
26201	atctcccatgatggctcgcgccagg	W75713
26202	tacacgcccgatgactacttccgga	W75713
26203	gatgactacttccggaagtttgagc	W75713
26204	tccctcgactccaatcttgatgacg	W75713
26205	tccaatcttgatgacgtagactctc	W75713
26206	gacgtagactctctgactgacgagg	W75713
26207	gtagactctctgactgacgaggaga	W75713
26208	gactctctgactgacgaggagatca	W75713
26209	atcatgtccaagtaccagctgggca	W75713
26210	gcaccatgtctggttgtgcagccga	U22031
26211	cagccgactgccagtactgggagag	U22031
26212	cctatgcctacggggtgatggacag	U22031
26213	ctgaagaggcctacgaccttggccg	U22031
26214	ttggccgcagagctattgcttatgc	U22031
26215	ctattgcttatgctacccacagaga	U22031
26216	cttatgctacccacagagacaacta	U22031
26217	ctacccacagagacaactattctgg	U22031
26218	acatgtaccacatgaaggaagacgg	U22031
26219	gttccgatgtcagtgacctgctgta	U22031
26220	atgtcagtgacctgctgtacaagta	U22031
26221	gtgacctgctgtacaagtacggaga	U22031
26222	gggaacgcatctccgtgtctgcagc	U22031
26223	ccgtgtctgcagcatccaagctgct	U22031
26224	catccaagctgctttccaacatgat	U22031
26225	agctgctttccaacatgatgctgca	U22031
26226	tttccaacatgatgctgcagtaccg	U22031
26227	acatgatgctgcagtaccgggggat	U22031
26228	tgttttccactggcagcgggaacac	U22031
26229	ggaacacctatgcctacggggtgat	U22031
26230	cggccatagtctgcaaggttggcaa	W75695
26231	ccatagtctgcaaggttggcaacga	W75695
26232	cagcctccataattgtcaataatga	W75695
26233	agaatatcatcgtcatagtggctgg	W75695
26234	atatcatcgtcatagtggctggagc	W75695
26235	tcatcgtcatagtggctggagcaaa	W75695
26236	agaaggcagccagtgtcattagccg	W75695
26237	cagccagtgtcattagccgagccaa	W75695
26238	gtgtcattagccgagccaaagtgat	W75695
26239	tcattagccgagccaaagtgatgat	W75695
26240	attagccgagccaaagtgatgatat	W75695
26241	tagccgagccaaagtgatgatatgc	W75695
26242	atcatatttctacagagtttacata	W75695
26243	tagaaataagcccggcagcttctct	W75695
26244	atatttctacagagtttacatatca	W75695
26245	agtttacatatcagaccagagatgc	W75695
26246	ttacatatcagaccagagatgcagc	W75695
26247	catatcagaccagagatgcagctac	W75695
26248	ctacaggaacagcctccataattgt	W75695

SEQ ID NO	sequence	DBAxnID
68785	gcaaaatctctctgtatgtctgaaa	D70848
68786	aatctctctgtatgtctgaaactga	D70848
68787	tctctgtatgtctgaaactgaaaac	D70848
68788	taaatcccacaaaatatcgagccaa	D70848
68789	tcccacaaaatatcgagccaaactt	D70848
68790	tccttcccacatgcttcctagtctt	D70848
68791	tcccacatgcttcctagtcttttga	D70848
68792	ccacatgcttcctagtcttttgaca	D70848
68793	tccttggttggtgagtaggcctctt	AA065865
68794	ccactctaaagcaatggtcagagtt	AA065865
68795	tatgatcttggtgtctgagacaact	AA065865
68796	tgagacaactgctgttccagcatac	AA065865
68797	gacaactgctgttccagcatacctc	AA065865
68798	aactgctgttccagcatacctctgt	AA065865
68799	tgctgttccagcatacctctgttta	AA065865
68800	tccagcatacctctgtttaacctga	AA065865
68801	agcatacctctgtttaacctgaatg	AA065865
68802	atacctctgtttaacctgaatgagg	AA065865
68803	cctctgtttaacctgaatgaggctg	AA065865
68804	tttaacctgaatgaggctgttgcat	AA065865
68805	tgctagttcaaacttctgggctgaa	AA065865
68806	ttcaaacttctgggctgaaattcct	AA065865
68807	cttctgggctgaaattcctgccagg	AA065865
68808	tgaaattcctgccaggaatggctct	AA065865
68809	aattcctgccaggaatggctctttc	AA065865
68810	tcctgccaggaatggctctttccat	AA065865
68811	ctctttccatatgatcttggtgtct	AA065865
68812	tttccatatgatcttggtgtctgag	AA065865
68813	ggatgtttaccttggctgcttccag	AA080176
68814	tgtttaccttggctgcttccaggac	AA080176
68815	tggatcatctctggacagcagctgc	AA080176
68816	atcatctctggacagcagctgccga	AA080176
68817	tctggacagcagctgccgaagtcaa	AA080176
68818	cagctgccgaagtcaataagaataa	AA080176
68819	attctatcgtggaccccaaggtgat	AA080176
68820	ctatcgtggaccccaaggtgatagt	AA080176
68821	tcgtggaccccaaggtgatagtgga	AA080176
68822	tggaccccaaggtgatagtggagat	AA080176
68823	atgtggccagccgtcagacagcagt	AA080176
68824	ccagccgtcagacagcagttattac	AA080176
68825	ttaccttggctgcttccaggacaat	AA080176
68826	tggctgcttccaggacaatggaggt	AA080176
68827	ctgcttccaggacaatggaggttgt	AA080176
68828	tgtgctgaaaccggccttcctgaga	AA080176
68829	gctgaaaccggccttcctgagagac	AA080176
68830	gagagaccctgacaccaccttcaac	AA080176
68831	cttcaactcacgggccctgactcag	AA080176
68832	aagctccgagtctggatcatctctg	AA080176
68833	tgacaatgcagttgaccacgtcctg	U20892
68834	tgaccacgtcctggaagagttctct	U20892
68835	ctttgtcgctgaagatgtagatgcc	U20892
68836	cggacaaatcatcctgcaggaagct	U20892
68837	tgacactgtggcaacgctgtctgaa	U20892
68838	tgtggcaacgctgtctgaacgggtc	U20892
68839	acataagatctttcctgccgctctt	U20892
68840	agatggcaagatccactgggccaag	U20892
68841	caagatccactgggccaaggagcag	U20892
68842	ccactgggccaaggagcagtgaccg	U20892
68843	ttcatcatgaccatggccaaactga	U20892
68844	atgaccatggccaaactgaaatacc	U20892
68845	cgtcctggaagagttctctgtagac	U20892
68846	gttctctgtagacatcgtctgtctt	U20892
68847	gttcatgaggatcctctctgggccc	U20892
68848	tgcccacgagcaagtcctggaagct	U20892
68849	agtcctggaagctggagtcacaatc	U20892
68850	tggagtcacaatcactgggtgtacc	U20892
68851	cacaatcactgggtgtaccgtacac	U20892
68852	gtgtaccgtacactttgtcgctgaa	U20892

SEQ ID NO	sequence	DBAxnID
111389	cagtggtcttcagtctgtcgtgcac	W30116
111390	ggtcttcagtctgtcgtgcaccgat	W30116
111391	tcttcagtctgtcgtgcaccgatga	W30116
111392	tctcctcatctgatctcacgggccg	W30116
111393	gtctgtcgtgcaccgatgagaactc	W30116
111394	ctcatctgatctcacgggccgacaa	W30116
111395	catctgatctcacgggccgacaaga	W30116
111396	tgatctcacgggccgacaagatacc	W30116
111397	atctcacgggccgacaagatacctc	W30116
111398	ctcacgggccgacaagatacctctc	W30116
111399	ggccgacaagatacctctcgcatgt	W30116
111400	ccgacaagatacctctcgcatgtcc	W30116
111401	tgataactttgcttgcggtagattt	L13968
111402	agttacatgcatacttcaaaagtat	L13968
111403	tgtacatccgtgtaacaggaagggc	L13968
111404	gagctctgtaagcacagccttattt	L13968
111405	tgtaagcacagccttattttcttct	L13968
111406	aagcacagccttattttcttctgtt	L13968
111407	cacagccttattttcttctgttgtc	L13968
111408	attttcttctgttgtccagaatact	L13968
111409	ttcttctgttgtccagaatacttag	L13968
111410	ttagaattcttgagcctcccagaaa	L13968
111411	gaattcttgagcctcccagaaattg	L13968
111412	agcctcccagaaattggaagcaaat	L13968
111413	agtgtaatttctttgcctgttcagt	L13968
111414	atttctttgcctgttcagttacaga	L13968
111415	ttgcctgttcagttacagaaagtgg	L13968
111416	aaagtggtgctcagttgtagaatgt	L13968
111417	tattgtacctttttaacatctgatgt	L13968
111418	tgtacctttttaacatctgatgtgta	L13968
111419	acctttttaacatctgatgtgtacat	L13968
111420	ctgatgtgtacatccgtgtaacagg	L13968
111421	ccggactgcagcatgtgctccagac	AA088011
111422	tgcagcatgtgctccagacccaagg	AA088011
111423	attgtgaccatcctactgcagagtg	AA088011
111424	gtgaccatcctactgcagagtgacc	AA088011
111425	ctactgcagagtgaccaggagccac	AA088011
111426	agtgaccaggagccactgtaccaag	AA088011
111427	caggagccactgtaccaagtgcagc	AA088011
111428	ccactgtaccaagtgcagctcagtc	AA088011
111429	gtgcagctcagtccaggggactcac	AA088011
111430	ctcagtccaggggactcacggcttg	AA088011
111431	gactcacggcttgcggtgtttgaca	AA088011
111432	tcctcacgctccaatgccagtgtgg	AA088011
111433	agcatgtgctccagacccaaggtgg	AA088011
111434	tccagacccaaggtggcagctctca	AA088011
111435	agacccaaggtggcagctctcattg	AA088011
111436	gtggcagctctcattgtgggtaccc	AA088011
111437	ctgctgttcctgacaggcattgggg	AA088011
111438	ttcctgacaggcattggggccgcgt	AA088011
111439	tcctgggccattgtgaccatcctac	AA088011
111440	gccattgtgaccatcctactgcaga	AA088011
111441	tatgtcatctgcataaggtctcagt	L26316
111442	atctgcataaggtctcagtgtcccc	L26316
111443	gcacatcaacaacttgcagcaaagc	L26316
111444	catcaacaacttgcagcaaagctct	L26316
111445	caacttgcagcaaagctctgctcac	L26316
111446	gcagcaaagctctgctcactcagac	L26316
111447	agaactccattgtgttccatggaga	L26316
111448	actccattgtgttccatggagacga	L26316
111449	ccattgtgttccatggagacgagag	L26316
111450	tccatggagacgagagcaggtggaa	L26316
111451	gaaattgtctgcttctcatcttcag	L26316
111452	tcatcttcagtgagattccaaagga	L26316
111453	ccatgaggaacctcaagtggctccc	L26316
111454	acctcaagtggctccccagcatatg	L26316
111455	tcaagtggctccccagcatatgcac	L26316
111456	agtggctccccagcatatgcacagg	L26316

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26249	caggaacagcctccataattgtcaa	W75695	68853	ctgatcaattcacttagtggccatg	D70849	111457	tccccagcatatgcacagggtactg	L26316
26250	gaacagcctccataattgtcaataa	W75695	68854	aattcacttagtggccatgacatct	D70849	111458	gcatatgcacagggtactgtgtgta	L26316
26251	agtggctcttctggctaccgtcacc	U27195	68855	acagtgcttctcatggttaaagtgc	D70849	111459	tagagcccctagagcatgagcagat	L26316
26252	tctgttgcaagcctacttctcccta	U27195	68856	cttctgtttgtgagccggaatcgtc	D70849	111460	tatgcacatcaacaacttgcagcaa	L26316
26253	ctatttccagggatacgcgcgctca	U27195	68857	aatcgtcagttctctcacttaattg	D70849	111461	aaattcaagtccagtcaatccagtg	W99981
26254	atacgcgcgctcagcgcaactcagg	U27195	68858	cagttctctcacttaattgagacta	D70849	111462	ttcaagtccagtcaatccagtggtc	W99981
26255	gcgctcagcgcaactcaggctgact	U27195	68859	tacttcaagggtggcttgctgacta	D70849	111463	ctttaggcaattctgcaccggagag	W99981
26256	tgcactgggcttgctagtccacttc	U27195	68860	cgcctaccagacctcatcatcttgg	D70849	111464	taggcaattctgcaccggagagttc	W99981
26257	cggcacgctacggactgcgctcttc	U27195	68861	ccagacctcatcatcttggatgcat	D70849	111465	gcaattctgcaccggagagttcaga	W99981
26258	gctacggactgcgctcttcagatgg	U27195	68862	ctcatcatcttggatgcatccctca	D70849	111466	agatggcgttccgataggatacaaa	W99981
26259	gactgcgctcttcagatggctccag	U27195	68863	tccctcacagccacatggggttcaa	D70849	111467	aagcaccttccacagggtcataaag	W99981
26260	gctcttcagatggctccagatgctc	U27195	68864	acagccacatggggttcaaagacat	D70849	111468	caccttccacagggtcataaaggat	W99981
26261	gctccagatgctcctgccgatggcc	U27195	68865	gacatctcaatcttgtacttcaaag	D70849	111469	taatggcgatggcactggagtcgcc	W99981
26262	cctgccgatggcctgaggcgaaggc	U27195	68866	tcatatacctatatgtttgtatcta	D70849	111470	cgatggcactggagtcgccagtatt	W99981
26263	gcaagcctacttctccctacaggtg	U27195	68867	tacctaatctgcctatcaaatctat	D70849	111471	tggcactggagtcgccagtatttac	W99981
26264	ctccctacaggtgatctctgcacga	U27195	68868	ctatcaaatctatttagcttcaaag	D70849	111472	cactggagtcgccagtatttaccgg	W99981
26265	acaggtgatctctgcacgaagggct	U27195	68869	aatctatttagcttcaaaggatagc	D70849	111473	tccagtcaatccagtggtcttcttc	W99981
26266	gatctctgcacgaagggctttccac	U27195	68870	cacacctctgaaatgccaatgacca	D70849	111474	caatccagtggtcttcttcgatgtc	W99981
26267	tgcacgaagggctttccacgtgtcg	U27195	68871	atgaccaaggccagttgaacagtgc	D70849	111475	ggtcttcttcgatgtcagcattggc	W99981
26268	aaactgcagcgagtactttccgctg	U27195	68872	agttgaacagtgcttctcatggtta	D70849	111476	cttcttcgatgtcagcattggcggc	W99981
26269	cgcagccctgtgcggactgttctac	U27195	68873	atatcacaaatgcatccaaggacag	L40632	111477	cgatgtcagcattggcggccaggaa	W99981
26270	cggactgttctacctgttcgcgcgc	U27195	68874	caaatgcatccaaggacaggcgtcc	L40632	111478	cagcattggcggccaggaagttggt	W99981
26271	ggccggtacaaccttaagcagtgca	L05439	68875	atgcatatcaccttattttgattaa	L40632	111479	gctctttgcagacgtggtgcctaag	W99981
26272	cggtacaaccttaagcagtgcaaga	L05439	68876	ttccaattttgcaaacactacagtc	L40632	111480	agacgtggtgcctaagacggcagag	W99981
26273	gagttcccagttttgacacatgtat	L05439	68877	tacagtctcctgcaacatgggagat	L40632	111481	atgagagctactcttaccaataaac	D17583
26274	ttcccagttttgacacatgtattta	L05439	68878	agtctcctgcaacatgggagatttt	L40632	111482	gctactcttaccaataaacagagcc	D17583
26275	aagagaccaacactgagctcagaag	L05439	68879	ctcctgcaacatgggagattttatc	L40632	111483	ggagtctgctgtgctgctttttcatt	D17583
26276	agaccaacactgagctcagaagccc	L05439	68880	ctgtaaacacaaagcccttcatcta	L40632	111484	gtctgctgtgctgcttttcattagc	D17583
26277	gctgttaactgaacctccttgcttc	L05439	68881	acacaaagcccttcatctaatattt	L40632	111485	gctgcttttcattagctgagtgcaa	D17583
26278	acctccttgcttctgttagagaggg	L05439	68882	tattgctattgccaatttttcaatg	L40632	111486	gcttttcattagctgagtgcaatga	D17583
26279	gaatccctgtgtctcttttgcttaa	L05439	68883	tgctattgccaatttttcaatgaaa	L40632	111487	atgaacagatcctgcaaggagagaa	D17583
26280	tccctgtgtctcttttgcttaagat	L05439	68884	tattgccaatttttcaatgaaatga	L40632	111488	gggttctgctttcaaactgtagttg	D17583
26281	tgtctcttttgcttaagattaaagg	L05439	68885	catccaaggacaggcgtcccaagtg	L40632	111489	ttctgctttcaaactgtagttggag	D17583
26282	ctgctgctgtcttacttgagtcttt	L05439	68886	aggacaggcgtcccaagtgacttca	L40632	111490	gttggagactcactctcatccccac	D17583
26283	aagatgtctctgaacggacagcgcg	L05439	68887	ccaagtgacttcaccctggacaagg	L40632	111491	caactgctaccttctagaattctga	D17583
26284	gagtgccatctcttctacaacgagc	L05439	68888	agtgacttcaccctggacaaggatg	L40632	111492	ctaccttctagaattctgatatttg	D17583
26285	tgccatctcttctacaacgagcagc	L05439	68889	tcgggactctttcactgactcttgt	L40632	111493	ccttcctggctctcaatcctgctgg	D17583
26286	ctcttctacaacgagcagcaggaga	L05439	68890	ctctttcactgactcttgtatatta	L40632	111494	tggctctcaatcctgctgggagcta	D17583
26287	ttctacaacgagcagcaggagactg	L05439	68891	tttcactgactcttgtatattagca	L40632	111495	tcaatcctgctgggagctaccaatg	D17583
26288	ggggcccatgcccaaagtgtgcagt	L05439	68892	tgatgcatgcatatcaccttatttt	L40632	111496	accaatgcattggctgaggtctgag	D17583
26289	gcccatgcccaaagtgtgcagtaaa	L05439	68893	gaaatcacccacattgtaataaagg	AA066354	111497	aatgcattggctgaggtctgagtgt	D17583
26290	ccatcccgaacaccagcagaaatgg	L05439	68894	aacatggaactcaagctctcttctc	AA066354	111498	gcattggctgaggtctgagtgtttg	D17583
26291	ctgaagctgtttgttccccactgct	AA064330	68895	ccactgattgtccacaatatacaga	AA066354	111499	accttgcatccaacccgaatatgta	D17583
26292	tttgttccccactgctatggtgtta	AA064330	68896	ctgattgtccacaatatacagaacg	AA066354	111500	catccaacccgaatatgtagggatg	D17583
26293	ggctgaaccctgatggaaagagcat	AA064330	68897	gtccacaatatacagaacggctgcc	AA066354	111501	aatcagcaggctaacaggcagttag	L01776
26294	ataagatcctgaccatcgaagtgaa	AA064330	68898	aatatacagaacggctgccacggtc	AA066354	111502	cagttagatcaggcggtgtgcgcct	L01776
26295	agatcctgaccatcgaagtgaagat	AA064330	68899	aacggctgccacggtccaatctgca	AA066354	111503	ctgcacaaaagcctgtagaaccccg	L01776
26296	accagacctcgaacaacattccagc	AA064330	68900	cacggtccaatctgcacagaatatg	AA066354	111504	ctaaatctggggctatttgaaagca	L01776
26297	agacctcgaacaacattccagcaga	AA064330	68901	ggtccaatctgcacagaatatgcca	AA066354	111505	agcaagaacaaaccactgtctctgc	L01776
26298	cctcgaacaacattccagcagacat	AA064330	68902	ccaatctgcacagaatatgccatca	AA066354	111506	ctgtctctgcttctgcttctgaaac	L01776
26299	acaacattccagcagacatcgtctt	AA064330	68903	acagaatatgccatcaataagctgc	AA066354	111507	ctgcttctgcttctgaaacgagaat	L01776
26300	acattccagcagacatcgtctttgt	AA064330	68904	gaatatgccatcaataagctgcggc	AA066354	111508	tcggtaactgcatttttctgtccca	L01776
26301	taaaggacaagccacacaatatctt	AA064330	68905	tcttctcgagaggaagccttgtcct	AA066354	111509	gtaactgcatttttctgtcccacga	L01776
26302	cacacaatatcttcaagagagatgg	AA064330	68906	gccatcaataagctgcggcaggaag	AA066354	111510	actgcatttttctgtcccacgagat	L01776
26303	gttccccactgctatggtgttataa	AA064330	68907	gaagccttgtcctttgtgtccctgg	AA066354	111511	ttctgtcccacgagatatgcaaaag	L01776
26304	gttataactcagcttacaataccaa	AA064330	68908	gtgtccctggtggatggctacttcc	AA066354	111512	tgtcccacgagatatgcaaaagcaa	L01776
26305	ataactcagcttacaataccaagaa	AA064330	68909	gatggctacttccggctcactgcag	AA066354	111513	attgagctgggctcctttctgtgct	L01776
26306	actcagcttacaataccaagaagat	AA064330	68910	ggctacttccggctcactgcagatg	AA066354	111514	tttctgtgctgggcatatggactgg	L01776
26307	agatgaaaatctcccacaagcggct	AA064330	68911	gcagatgcccaccattacctctgta	AA066354	111515	ggcatctttgtgtcacacttgtgtc	L01776
26308	tgaaaatctcccacaagcggctgaa	AA064330	68912	gatgcccaccattacctctgtactg	AA066354	111516	atctttgtgtcacacttgtgtccat	L01776
26309	tctcccacaagcggctgaaccctga	AA064330	68913	cattacctctgtactgatgtggctc	AA066354	111517	cacttgtgtccatagtatgtgcgta	L01776
26310	acaagcggctgaaccctgatggaaa	AA064330	68914	agaggatctgccactgcttctctaa	U28423	111518	ttgtgtccatagtatgtgcgtatgt	L01776
26311	tgaaccagcggggactgctgtgtaa	L40459	68915	ggatctgccactgcttctctaagga	U28423	111519	cgtatgtgcacccacgtggtatgtg	L01776
26312	tctgcaaagctggcttcacgcgcag	L40459	68916	aagcccagcggttactgaagcagtc	U28423	111520	tgcacccacgtggtatgtgtgcgcc	L01776
26313	acttcgacatcagatctgccccttt	L40459	68917	tagcactgcagtggcatccagataa	U28423	111521	accaatcttctgtcccggttcatgc	W12647
26314	taatttactcttggctttcaaggca	L40459	68918	cactgcagtggcatccagataattt	U28423	111522	ccaatcttctgtcccggttcatgcg	W12647
26315	actcttggctttcaaggcaaattga	L40459	68919	ggcatccagataatttccagaatga	U28423	111523	cccggttcatgcgcaatgagttcag	W12647
26316	aaattgatattcacatccaaagcgg	L40459	68920	acatagcagctgctaaagaagtcct	U28423	111524	ccggttcatgcgcaatgagttcagc	W12647

TABLE 1

SEQ ID NO	sequence	DBAxnID
26317	aaagcgggcagcatcaactgcttgg	L40459
26318	ggcagcatcaactgcttggcgggtt	L40459
26319	tggactgagctgggacccaggatgt	L40459
26320	gagctgggacccaggatgtgaaata	L40459
26321	tattgtggctctgattatgtacact	L40459
26322	tgcctgacctgctgaccaggctcac	L40459
26323	ccgccgctgatgatgcagccatagc	L40459
26324	tgatcgatcatcgagggtattttca	L40459
26325	gacagacaagtacatcctttgctcc	L40459
26326	caagtacatcctttgctcctgacca	L40459
26327	ttgctcctgaccaaacgagagcatg	L40459
26328	ctgaccaaacgagagcatggaccca	L40459
26329	acccaaggtgctcctgtctgcagag	L40459
26330	tgattcctagaaacttcgacatcag	L40459
26331	cagcctgcccagagcagccaggagg	W75827
26332	cctgcccagagcagccaggaggatg	W75827
26333	gtcccatatttaggcagactgcctg	W75827
26334	tcccatatttaggcagactgcctgg	W75827
26335	atatttaggcagactgcctggctac	W75827
26336	tatttaggcagactgcctggctaca	W75827
26337	tttaggcagactgcctggctacagg	W75827
26338	ttaggcagactgcctggctacaggg	W75827
26339	taggcagactgcctggctacagggc	W75827
26340	aggcagactgcctggctacagggct	W75827
26341	cagactgcctggctacagggctgct	W75827
26342	tacagggctgctgcggcctggagaa	W75827
26343	tgcccagagcagccaggaggatgtc	W75827
26344	gcccagagcagccaggaggatgtcc	W75827
26345	cccagagcagccaggaggatgtccc	W75827
26346	ccagagcagccaggaggatgtccca	W75827
26347	aggatgtcccatatttaggcagact	W75827
26348	ggatgtcccatatttaggcagactg	W75827
26349	atgtcccatatttaggcagactgcc	W75827
26350	tgtcccatatttaggcagactgcct	W75827
26351	cagcctgcactgaagttcaatggtg	L35528
26352	catattaatcacaccatttttctgga	L35528
26353	agacctgactatctgaaagctattt	L35528
26354	tacacagcttgcaagaagtgaaacc	L35528
26355	ctcactcacggccacattgagtgcc	L35528
26356	caggctccgggctggtttatagtag	L35528
26357	agcattgcagcactatgactggggt	L35528
26358	gcagcactatgactggggtgctgta	L35528
26359	ctatgactggggtgctgtagtcttt	L35528
26360	tattgatgtctttccacatacctga	L35528
26361	tgtctttccacatacctgataattc	L35528
26362	tccacatacctgataattctatgat	L35528
26363	ttctggacaaacctgagccctaagg	L35528
26364	atcaagcgtgactttgggtcttttg	L35528
26365	ctgacagccatgtctgtgggagtcc	L35528
26366	ttacagattgctgcctgctctaatc	L35528
26367	attgctgcctgctctaatcaggacc	L35528
26368	acaacaggccttattccgctgctgg	L35528
26369	ggccttattccgctgctggggattg	L35528
26370	attccgctgctggggattgacgtgt	L35528
26371	aaaggcacatctgtcagtgccaaag	W77259
26372	aggcacatctgtcagtgccaaagca	W77259
26373	cagtgccaaagcacaaatgaccaag	W77259
26374	gccaaagcacaaatgaccaaggacc	W77259
26375	ccaaagcacaaatgaccaaggaccg	W77259
26376	tgaagtggctttccaggacgaagtg	W77259
26377	cttgttctatgggccacctggaact	W77259
26378	ttgttctatgggccacctggaactg	W77259
26379	tgttctatgggccacctggaactgg	W77259
26380	ttctatgggccacctggaactggca	W77259
26381	tctatgggccacctggaactggcaa	W77259
26382	ctatgggccacctggaactggcaaa	W77259
26383	ggcacatctgtcagtgccaaagcac	W77259
26384	gcacatctgtcagtgccaaagcaca	W77259

SEQ ID NO	sequence	DBAxnID
68921	ctaaagaagtcctctcagacccaga	U28423
68922	aagtcctctcagacccagaaatgag	U28423
68923	tctcagacccagaaatgagaaagaa	U28423
68924	aagatcctcttgatgcagagagtca	U28423
68925	ccttccacagaagttggaactcatg	U28423
68926	gccactgcttctctaaggatgagaa	U28423
68927	actgcttctctaaggatgagaagcc	U28423
68928	agatggagcccgacaatgtgaatgc	U28423
68929	ctctgaaagaccgagccgaggccta	U28423
68930	tgaaagaccgagccgaggcctactt	U28423
68931	gagccgaggcctacttaatagagga	U28423
68932	attatgaagctgctcaggagcacaa	U28423
68933	atgaagctgctcaggagcacaatga	U28423
68934	tttctcaagtccagaactgcgatgg	AA066424
68935	ttctcaagtccagaactgcgatgga	AA066424
68936	actgcgatggagctccagaggaggt	AA066424
68937	atggagctccagaggaggtgtaata	AA066424
68938	tggagctccagaggaggtgtaatac	AA066424
68939	tgtaataccttaattactttgattg	AA066424
68940	accttccacacagaaacgtaagatg	AA066424
68941	ccttccacacagaaacgtaagatgg	AA066424
68942	cttccacacagaaacgtaagatgga	AA066424
68943	ttccacacagaaacgtaagatggac	AA066424
68944	tccacacagaaacgtaagatggacg	AA066424
68945	taagatggacggtgcccctgatggc	AA066424
68946	tctcaagtccagaactgcgatggag	AA066424
68947	ctcaagtccagaactgcgatggagc	AA066424
68948	tcaagtccagaactgcgatggagct	AA066424
68949	caagtccagaactgcgatggagctc	AA066424
68950	agtccagaactgcgatggagctcca	AA066424
68951	gtccagaactgcgatggagctccag	AA066424
68952	tccagaactgcgatggagctccaga	AA066424
68953	aactgcgatggagctccagaggagg	AA066424
68954	tatcctgacctaatgccttagcagc	AA066425
68955	ctaatgccttagcagccataagaag	AA066425
68956	ctacgcaggacagccttctacggac	AA066425
68957	cgcaggacagccttctacggacttc	AA066425
68958	ttctacggacttcttcattccactg	AA066425
68959	cttcattccactgtaacttggtggc	AA066425
68960	ctgccccttctccgaaatggcaggt	AA066425
68961	cttctccgaaatggcaggtgtgagc	AA066425
68962	ctccgaaatggcaggtgtgagcagc	AA066425
68963	cttcaacttcttgttctgggtatgt	AA066425
68964	caacttcttgttctgggtatgtggt	AA066425
68965	tacactgatcttgggactggccata	AA066425
68966	ccttagcagccataagaaggaaaag	AA066425
68967	gatcatcacgtcaggagactctagc	AA066425
68968	gaatctgcaggcacacggatctctg	AA066425
68969	gcaggcacacggatctctgcaggca	AA066425
68970	acacggatctctgcaggcaaaatcc	AA066425
68971	atctctgcaggcaaaatccgtcaga	AA066425
68972	tctgcaggcaaaatccgtcagagcc	AA066425
68973	atccgtcagagcctacgcaggacag	AA066425
68974	agcctacgcaggacagccttctacg	AA066425
68975	tccgtgccaagcttatcaagtcccg	U33631
68976	ccaagcttatcaagtcccggcagac	U33631
68977	aggtgctctggggtcaccgattcac	U33631
68978	gtcaccgattcacaccagttctcac	U33631
68979	tggactacaacacttttcatgacac	U33631
68980	acaacacttttcatgacacctatga	U33631
68981	cttttcatgacacctatgagaccaa	U33631
68982	cctatgagaccaacacacccagttg	U33631
68983	agaccaacacacccagttgctgtgc	U33631
68984	acacacccagttgctgtgccaagga	U33631
68985	ccagttgctgtgccaaggagctggc	U33631
68986	gtgagcccaatggactgagtgtgtc	U33631
68987	ttatcaagtcccggcagaccaaaga	U33631
68988	ccaggccaccaggggctcaatgtga	U33631

SEQ ID NO	sequence	DBAxnID
111525	ttcagctattatagtcgcagtacca	W12647
111526	ctattatagtcgcagtaccattgga	W12647
111527	attatagtcgcagtaccattggagt	W12647
111528	ttatagtcgcagtaccattggagtt	W12647
111529	tatagtcgcagtaccattggagttg	W12647
111530	tagtcgcagtaccattggagttgag	W12647
111531	agtcgcagtaccattggagttgagt	W12647
111532	gtcgcagtaccattggagttgagtt	W12647
111533	caatcttctgtcccggttcatgcgc	W12647
111534	tcgcagtaccattggagttgagttc	W12647
111535	atcttctgtcccggttcatgcgcaa	W12647
111536	tcttctgtcccggttcatgcgcaat	W12647
111537	cttctgtcccggttcatgcgcaatg	W12647
111538	tctgtcccggttcatgcgcaatgag	W12647
111539	ctgtcccggttcatgcgcaatgagt	W12647
111540	tgtcccggttcatgcgcaatgagtt	W12647
111541	tcccggttcatgcgcaatgagttca	W12647
111542	actttcactgctgaatatgtggagt	W12658
111543	tttcactgctgaatatgtggagttt	W12658
111544	cttcttcttccagcaagttcagccc	W12658
111545	tcttcttccagcaagttcagccctt	W12658
111546	ttcttccagcaagttcagcccttct	W12658
111547	cttccagcaagttcagcccttcttt	W12658
111548	cagcaagttcagcccttctttgaca	W12658
111549	gcaagttcagcccttctttgacaac	W12658
111550	aagttcagcccttctttgacaacat	W12658
111551	gttcagcccttctttgacaacattt	W12658
111552	cttctttgacaacatttttgtggct	W12658
111553	tctttgacaacatttttgtggctgt	W12658
111554	tcactgctgaatatgtggagtttga	W12658
111555	ctgaccgaaatgagggccggagaca	W12658
111556	gtcctcgttctccgtgagctggcca	W12658
111557	cctcgttctccgtgagctggccatc	W12658
111558	tctccgtgagctggccatcagtgtc	W12658
111559	tccgtgagctggccatcagtgtccc	W12658
111560	cgtgagctggccatcagtgtcccca	W12658
111561	ccaccttcttcttccagcaagttca	W12658
111562	ttctgttggactgtatggcacgccc	U53456
111563	tggactgtatggcacgccctgggga	U53456
111564	tgaccgataatgctttctttggcta	U53456
111565	ataatgctttctttggctacattct	U53456
111566	acattctttattctgcggtgacatt	U53456
111567	tttattctgcggtgacattgaggct	U53456
111568	tttatacagaactcacagtatctat	U53456
111569	cagaactcacagtatctatgacttt	U53456
111570	actacgacctgttaaatgaatctgt	U53456
111571	aatctgtttgcacagatgcccgtgt	U53456
111572	tttgcacagatgcccgtgtacaatg	U53456
111573	cagatgcccgtgtacaatgccatgt	U53456
111574	ccctccgtggggcctcagaagcagg	U53456
111575	gacactttgtacagttcccatatag	U53456
111576	ttgtacagttcccatatagtctatt	U53456
111577	gtctattcactgagtgatcttttta	U53456
111578	agtgatcttttttacagttggatcag	U53456
111579	ctttttacagttggatcaggcctga	U53456
111580	ggcctgaacccgtccattcagaaag	U53456
111581	aacactgtcctatacgagtgaccga	U53456
111582	gctctgctcacagcaggcgctgctg	W12659
111583	ctgctcacagcaggcgctgctgcac	W12659
111584	aactatggctgctactgtggcttgg	W12659
111585	ggcaccccagtggacgacttagaca	W12659
111586	aggtgctgccagactcatgaccact	W12659
111587	tgctgccagactcatgaccactgct	W12659
111588	cagactcatgaccactgctacagtc	W12659
111589	actcatgaccactgctacagtcagg	W12659
111590	catgaccactgctacagtcaggcca	W12659
111591	cactgctacagtcaggccaagaagc	W12659
111592	tgctacagtcaggccaagaagctgg	W12659

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26385	acatctgtcagtgccaaagcacaaa	W77259	68989	tctcccacgagatcaacgagaagag	U33631	111593	agctgtaaattcctcatagacaacc	W12659
26386	catctgtcagtgccaaagcacaaat	W77259	68990	agatgtctcgtgctcaactggaaca	U33631	111594	ctcacagcaggcgctgctgcacaca	W12659
26387	atctgtcagtgccaaagcacaaatg	W77259	68991	ctcgtgctcaactggaacaggaaga	U33631	111595	accaacacttactcctactcatgct	W12659
26388	ctgtcagtgccaaagcacaaatgac	W77259	68992	tgacttgccaagcacggagctctta	U33631	111596	gcacacagcatcagccctcgggtgt	W12659
26389	tgtcagtgccaaagcacaaatgacc	W77259	68993	gccaagcacggagctcttacatgga	U33631	111597	cacagcatcagccctcgggtgtgat	W12659
26390	gtcagtgccaaagcacaaatgacca	W77259	68994	cacggagctcttacatggatacaga	U33631	111598	agccctcgggtgtgatggcagttcc	W12659
26391	ggatttagcccacaggagccctaga	U31908	68995	gctcttacatggatacagaggtgct	U33631	111599	tggcagttccgcaatatgatcaagt	W12659
26392	agcccacaggagccctagatgcaaa	U31908	68996	ccaaacatccgggagcagctatcta	U36842	111600	cagttccgcaatatgatcaagtgca	W12659
26393	gagcccaaggtcccaaggcacagca	U31908	68997	gagcagctatctatcacttgaggtc	U36842	111601	agtgatcccctgaaggattacaaca	W12659
26394	aaggtcccaaggcacagcagcgcac	U31908	68998	tcccatgtgctacaccgtcattacg	U36842	111602	tacaacaactatggctgctactgtg	W12659
26395	ccaaggcacagcagcgcacctgtgt	U31908	68999	gtgctacaccgtcattacgttcaag	U36842	111603	gacgttcttgagaccacgcatcatc	W12681
26396	cacagcagcgcacctgtgtgcctgc	U31908	69000	gggcaccacatgttatgttcttctt	U36842	111604	gttcttgagaccacgcatcatcggg	W12681
26397	agcgcacctgtgtgcctgctctcct	U31908	69001	cacatgttatgttcttcttgctcta	U36842	111605	tcatcgggggctcatcatctttggc	W12681
26398	tgcctgctctcctcatgtacataca	U31908	69002	gtaatctgcattgcattccattagc	U36842	111606	ctcatcatctttggctgggtcacac	W12681
26399	tcatgtacatacataacgtgctttc	U31908	69003	gcattccattagcatctgctgtttc	U36842	111607	acacccctggctgggtgccatctac	W12681
26400	acatacataacgtgctttctctccc	U31908	69004	catctgctgtttccaaatggagacc	U36842	111608	gctgggtgccatctacattggggat	W12681
26401	cccgacagactcagaccaaggtgcg	U31908	69005	tttctggatctttcgagttatcagc	U36842	111609	tgggtgccatctacattggggatag	W12681
26402	agactcagaccaaggtgcggccccg	U31908	69006	gatctttcgagttatcagctgtatc	U36842	111610	gggtgccatctacattggggatagc	W12681
26403	acagacagcctgttagtgggagctt	U31908	69007	ttatagcttttcacatgtatattgg	U36842	111611	gtgccatctacattggggatagctt	W12681
26404	ttcctttagcccagctgcctgcagg	U31908	69008	ctatctatcacttgaggtcctgatt	U36842	111612	tgccatctacattggggatagcttc	W12681
26405	ccaagccagcttctcttcaccttga	U31908	69009	cctgattgcagatcttgtgagtgct	U36842	111613	ccatctacattggggatagcttctg	W12681
26406	cagcttctcttcaccttgaagtagt	U31908	69010	tcaaacttcattgcagaaagacatt	U36842	111614	ggatagcttctgtgcccggaagctt	W12681
26407	ctcttcaccttgaagtagtctgcca	U31908	69011	gcagctaaggcgcctacaagaggag	U36842	111615	tcttgagaccacgcatcatcggggg	W12681
26408	accttgaagtagtctgccaggcctg	U31908	69012	ttttgttccttgtggacatctggtc	U36842	111616	cttgagaccacgcatcatcgggggc	W12681
26409	aagtagtctgccaggcctggtgcag	U31908	69013	tccttgtggacatctggtcacttgt	U36842	111617	tgagaccacgcatcatcgggggctc	W12681
26410	atctggcactcggagcccaaggtcc	U31908	69014	tctggtcacttgtaaacagtgtgca	U36842	111618	gagaccacgcatcatcgggggctca	W12681
26411	cacgcactccacgggacatgggtct	W75856	69015	caaatgtcccatgtgctacaccgtc	U36842	111619	gaccacgcatcatcgggggctcatc	W12681
26412	ctccacgggacatgggtctgggact	W75856	69016	tcacaatatgctacccagaatatgc	U38501	111620	cacgcatcatcgggggctcatcatc	W12681
26413	ctcacacacttcgaggtacagagag	W75856	69017	cacaatatgctacccagaatatgca	U38501	111621	acgcatcatcgggggctcatcatct	W12681
26414	cacacacttcgaggtacagagagtc	W75856	69018	tatgcaggctcaaacacatatgaag	U38501	111622	catcatcgggggctcatcatctttg	W12681
26415	cacacttcgaggtacagagagtctg	W75856	69019	atgcaggctcaaacacatatgaaga	U38501	111623	atacaaactatctgatccattgatt	M27073
26416	agcaggcactgtagcaacagagaat	W75856	69020	gcaggctcaaacacatatgaagaag	U38501	111624	actatctgatccattgattttaatc	M27073
26417	cttatggagctcaaacctcagatgc	W75856	69021	aggctcaaacacatatgaagaagcg	U38501	111625	ttcgcacgaaacacctttggcatg	M27073
26418	tatggagctcaaacctcagatgcag	W75856	69022	ggctcaaacacatatgaagaagcgg	U38501	111626	ttttggcatgcttaactttctggta	M27073
26419	tggagctcaaacctcagatgcagga	W75856	69023	tatgaagaagcggccgcgtatattc	U38501	111627	tgacaagccttggatagctggctct	M27073
26420	tcaaacctcagatgcaggaggagaa	W75856	69024	agaagcggccgcgtatattcagtgt	U38501	111628	ttccctctctctatgtgaaggatgt	M27073
26421	acctcagatgcaggaggagaagaga	W75856	69025	aagcggccgcgtatattcagtgtca	U38501	111629	cctctctctatgtgaaggatgtatt	M27073
26422	agaactgccagagacaatggaccct	W75856	69026	agcggccgcgtatattcagtgtcag	U38501	111630	ggacatttgtcagctctgaatattg	M27073
26423	actgtaacgtacagcactgctgccc	W75856	69027	cggccgcgtatattcagtgtcagtt	U38501	111631	catttgtcagctctgaatattgggt	M27073
26424	tgtaacgtacagcactgctgcccag	W75856	69028	caatatgctacccagaatatgcagg	U38501	111632	tgcttcactaataattgccatgtga	M27073
26425	taacgtacagcactgctgcccagtc	W75856	69029	aatatgctacccagaatatgcaggc	U38501	111633	ttcactaataattgccatgtgaatg	M27073
26426	gtacagcactgctgcccagtctcac	W75856	69030	atatgctacccagaatatgcaggct	U38501	111634	ttactctgcgttttcataatcaaag	M27073
26427	gctgcccagtctcacacacttcgag	W75856	69031	tatgctacccagaatatgcaggctc	U38501	111635	ggcaaactttgcagctgataatgag	M27073
26428	tgcccagtctcacacacttcgaggt	W75856	69032	tgctacccagaatatgcaggctcaa	U38501	111636	aaactttgcagctgataatgagtat	M27073
26429	cccagtctcacacacttcgaggtac	W75856	69033	gctacccagaatatgcaggctcaaa	U38501	111637	tttttacaaaattgccactgatttg	M27073
26430	cagtctcacacacttcgaggtacag	W75856	69034	ctacccagaatatgcaggctcaaac	U38501	111638	ttacaaaattgccactgatttggat	M27073
26431	atcccatacgacatgctgcaggaca	W75889	69035	aatatgcaggctcaaacacatatga	U38501	111639	tgccactgatttggatttgtgcact	M27073
26432	cccatacgacatgctgcaggacatc	W75889	69036	tcctgctccctgtacagtcagtcta	AA066461	111640	tttattgatgctctattgtgcagta	M27073
26433	atgacggacatgcgtactcgagaca	W75889	69037	tgctccctgtacagtcagtctactc	AA066461	111641	gatgctctattgtgcagtagcattt	M27073
26434	gacggacatgcgtactcgagacaaa	W75889	69038	agatgttccacaagagcctcgagag	AA066461	111642	taatatccaaaactagttggtaatg	M27073
26435	cggacatgcgtactcgagacaaagt	W75889	69039	tccacaagagcctcgagagcgctga	AA066461	111643	gatcttggacaccgcgggcacgtag	W12720
26436	gacatgcgtactcgagacaaagtcc	W75889	69040	acaagagcctcgagagcgctgacgc	AA066461	111644	cttggacaccgcgggcacgtagcag	W12720
26437	catgcgtactcgagacaaagtcctg	W75889	69041	tcgagagcgctgacgcacgggataa	AA066461	111645	gacatcaagcccatgcgggaccaga	W12720
26438	cgtactcgagacaaagtcctgataa	W75889	69042	gggataacctgcgtgctctggtccg	AA066461	111646	aagcccatgcgggaccagatcatcc	W12720
26439	ccatcaagacaccgagtgtgactat	W75889	69043	ataacctgcgtgctctggtccgagg	AA066461	111647	cccatgcgggaccagatcatccgcg	W12720
26440	catcaagacaccgagtgtgactatc	W75889	69044	gtgctctggtccgaggcttaaaccg	AA066461	111648	atgcgggaccagatcatccgcgtga	W12720
26441	atcaagacaccgagtgtgactatca	W75889	69045	taaaccgcgaagatttgacgcgtgg	AA066461	111649	cagatcatccgcgtgaacggtacga	W12720
26442	tcaagacaccgagtgtgactatcag	W75889	69046	aagatttgacgcgtggcttgctcat	AA066461	111650	atcatccgcgtgaacggtacgagcg	W12720
26443	catacgacatgctgcaggacatcaa	W75889	69047	atttgacgcgtggcttgctcatcgg	AA066461	111651	acgagcgcgtacccatgatcctggt	W12720
26444	acatgctgcaggacatcaagattga	W75889	69048	tccctgtacagtcagtctactctat	AA066461	111652	agcgcgtacccatgatcctggtagg	W12720
26445	atcttgagcacgccgtcctggagct	W75889	69049	tttgacgcgtggcttgctcatcggt	AA066461	111653	gcgtacccatgatcctggtaggcaa	W12720
26446	cttgagcacgccgtcctggagctgg	W75889	69050	tacagtcagtctactctattcctgg	AA066461	111654	tgatcctggtaggcaacaaggtgga	W12720
26447	cgccgtcctggagctggctcagtgc	W75889	69051	agtcagtctactctattcctggccg	AA066461	111655	gttcgcctcaatgcggagacctgta	W12720
26448	gtacgactccatgacggacatgcgt	W75889	69052	atcagtgtgagttgctgggacataa	AA066461	111656	atggccagggcttcattctcgtcta	W12720
26449	acgactccatgacggacatgcgtac	W75889	69053	ataacaagaacatgcgcactgtggt	AA066461	111657	tcattctcgtctacagcctggtcaa	W12720
26450	ctccatgacggacatgcgtactcga	W75889	69054	agaacatgcgcactgtggtgacagg	AA066461	111658	ttctcgtctacagcctggtcaacag	W12720
26451	atgccacagaccggtgctgtgttac	X74266	69055	acatgcgcactgtggtgacaggcat	AA066461	111659	tctacagcctggtcaacagcagagt	W12720
26452	cagaccggtgctgtgttactcatga	X74266	69056	tgcgcactgtggtgacaggcattga	AA066461	111660	tcaacagcagagttccaggacatca	W12720

TABLE 1

SEQ ID NO	sequence	DBAxnID
26453	agccatctcctgaaacacccggaca	X74266
26454	tctgtcttcacccagaatgagacac	X74266
26455	ttcacccagaatgagacacagaagt	X74266
26456	actccactgccttgaatctgtctac	X74266
26457	tgaatctgtctacttccacctttct	X74266
26458	tgtctacttccacctttctcttggc	X74266
26459	cctttctcttggcatccaacttcct	X74266
26460	tcttggcatccaacttcctgcttcg	X74266
26461	catccaacttcctgcttcgtaccta	X74266
26462	ggaggccctcacaagtaaagcaatt	X74266
26463	gtgttactcatgactgttgctacaa	X74266
26464	actgttgctacaagagcctggagaa	X74266
26465	ggggccaaatcacctgttctgcaaa	X74266
26466	aaatcacctgttctgcaaaccagaa	X74266
26467	accagaactcctgtcagaaacggct	X74266
26468	actcctgtcagaaacggctgtgtca	X74266
26469	gtcagaaacggctgtgtcagtgcga	X74266
26470	tctaccccaacatgttttgcaaagg	X74266
26471	gacaccatgctgaggagtccacagc	W75918
26472	accatgctgaggagtccacagccat	W75918
26473	tcctcatcgtggactgggatattca	W75918
26474	gcaacggcacccagcaagcattcta	W75918
26475	gcacccagcaagcattctacaacga	W75918
26476	agcaagcattctacaacgatccctc	W75918
26477	acaacgatccctctgtgctctacat	W75918
26478	acgatccctctgtgctctacatctc	W75918
26479	tgctctacatctccctgcatcgcta	W75918
26480	ccctgcatcgctacgacaacgggaa	W75918
26481	tgcatcgctacgacaacgggaactt	W75918
26482	caggctctggggctcctgaagaggt	W75918
26483	ccatgggattctgcttcttcaactc	W75918
26484	gcttcttcaactccgtagccatcac	W75918
26485	actccgtagccatcacagctaaact	W75918
26486	ccgtagccatcacagctaaactcct	W75918
26487	tagccatcacagctaaactcctgca	W75918
26488	ctaaactcctgcagcagaagctgag	W75918
26489	gcaaggtcctcatcgtggactggga	W75918
26490	aggtcctcatcgtggactgggatat	W75918
26491	gaacgactgtcttcataacccgaga	L15193
26492	acatcttactgactgttgaagacat	L15193
26493	tcatcgctgtttcttccacggtcac	L15193
26494	tgatgctaatcatcactctcgtcag	L15193
26495	tcactctcgtcagtgtctactgcac	L15193
26496	cggcagccatgactctagaaaacca	L15193
26497	ctctagaaaaccaacatgcgttttg	L15193
26498	taactcacgccagcaggtgaaatga	L15193
26499	gaccttccatcatagaagaatattt	L15193
26500	aagccatgtgacatttccaaccaga	L15193
26501	tgtgacatttccaaccagatcatct	L15193
26502	atttccaaccagatcatctttgtaa	L15193
26503	aagacatatctcacctcaattctac	L15193
26504	tatctcacctcaattctacatcagc	L15193
26505	acctcaattctacatcagctgtccc	L15193
26506	ccaccttggctgtccataatgcctg	L15193
26507	atgcctgctctgaggttgtatgtca	L15193
26508	agaacggtggcatctgtgttgtcca	L15193
26509	gcaagtgtcctgcaggagaagactg	L15193
26510	ccacccgagacactgttatcatcgc	L15193
26511	cacaacctaattgaacgcgcaggcg	W76923
26512	caacctaattgaacgcgcaggcgat	W76923
26513	ccaagtccaatgatcggagatggct	W76923
26514	aagtccaatgatcggagatggctgg	W76923
26515	tggaacaagggcccatcctgaaggc	W76923
26516	gaacaagggcccatcctgaaggcat	W76923
26517	acaagggcccatcctgaaggcatct	W76923
26518	aagggcccatcctgaaggcatctgt	W76923
26519	tggattacatccgcaaattacagaa	W76923
26520	gattacatccgcaaattacagaagg	W76923

SEQ ID NO	sequence	DBAxnID
69057	gcgcatcctgcgcagagtcattagc	AA066480
69058	gcatcctgcgcagagtcattagcgg	AA066480
69059	gcgccacagaactcatgaactatct	AA066480
69060	gccacagaactcatgaactatctca	AA066480
69061	cagaactcatgaactatctcagcaa	AA066480
69062	gaactcatgaactatctcagcaagg	AA066480
69063	actcatgaactatctcagcaaggtc	AA066480
69064	tcatgaactatctcagcaaggtcgt	AA066480
69065	atgaactatctcagcaaggtcgtga	AA066480
69066	gaactatctcagcaaggtcgtgacc	AA066480
69067	actatctcagcaaggtcgtgacccg	AA066480
69068	tatctcagcaaggtcgtgacccgac	AA066480
69069	atcctgcgcagagtcattagcggca	AA066480
69070	cctgcgcagagtcattagcggcatc	AA066480
69071	cattagcggcatcagcgaggctgct	AA066480
69072	ttagcggcatcagcgaggctgctgc	AA066480
69073	cacctccgtgagtgcaggaaactcc	AA066480
69074	aaactccttgtccagctggctcggg	AA066480
69075	actccttgtccagctggctcgggac	AA066480
69076	cagcgccacagaactcatgaactat	AA066480
69077	agtcggagcagtggctccaaccgaa	U41285
69078	agcagtggctccaaccgaagtggca	U41285
69079	agccaccgcagtcaccattcgctga	U41285
69080	cgcagtcaccattcgctgaccagca	U41285
69081	agtcaccattcgctgaccagcagcc	U41285
69082	cattcgctgaccagcagcctgcgca	U41285
69083	ccggaactgacggccagcagacagt	U41285
69084	gaactgacggccagcagacagtcct	U41285
69085	agacagtccttccgcatggcaatgg	U41285
69086	tccttccgcatggcaatgggaaacc	U41285
69087	ttctttgtggatgtgatgtgatcag	U41285
69088	tgatcagggcccctgtccagctctt	U41285
69089	agtggctccaaccgaagtggcagcg	U41285
69090	ggctccaaccgaagtggcagcgacc	U41285
69091	agcgagtcagaccacactacacgca	U41285
69092	tcagaccacactacacgcagcagtc	U41285
69093	gaccacactacacgcagcagtctga	U41285
69094	cacactacacgcagcagtctgaggg	U41285
69095	gcaccaagcgagcgatcaggcccag	U41285
69096	gagcacagccaccgcagtcaccatt	U41285
69097	aagttctcaattgctacagagaagt	AA110363
69098	gttctcaattgctacagagaagtgg	AA110363
69099	actagtattcatccaaaaatggcca	AA110363
69100	tagtattcatccaaaaatggccaat	AA110363
69101	attcatccaaaaatggccaattagc	AA110363
69102	atccaaaaatggccaattagcggtg	AA110363
69103	tatgtatcgcatatttctgttcagg	AA110363
69104	tgtatcgcatatttctgttcaggcc	AA110363
69105	tatcgcatatttctgttcaggccat	AA110363
69106	atatttctgttcaggccatcaagaa	AA110363
69107	atttctgttcaggccatcaagaact	AA110363
69108	ttctgttcaggccatcaagaacttt	AA110363
69109	acccataggcttttcaggagacatc	AA110363
69110	gcttttcaggagacatcctcacata	AA110363
69111	ttttcaggagacatcctcacatact	AA110363
69112	caggagacatcctcacatactagta	AA110363
69113	agacatcctcacatactagtattca	AA110363
69114	acatcctcacatactagtattcatc	AA110363
69115	atcctcacatactagtattcatcca	AA110363
69116	acatactagtattcatccaaaaatg	AA110363
69117	ttgtgcacacattatccattttgca	AA066531
69118	gtgcacacattatccattttgcaca	AA066531
69119	tttaggtaacatctgcccctgcggt	AA066531
69120	taggtaacatctgcccctgcggttc	AA066531
69121	ggtaacatctgcccctgcggttcct	AA066531
69122	atctgcccctgcggttcctctcatt	AA066531
69123	attgcacagcctgtgcgatggatag	AA066531
69124	tgcacagcctgtgcgatggatagta	AA066531

SEQ ID NO	sequence	DBAxnID
111661	ttccaggacatcaagcccatgcggg	W12720
111662	caggacatcaagcccatgcgggacc	W12720
111663	attatcatttcccctgaggagaatg	L25274
111664	ttaacttgcacagcagaaaaccaac	L25274
111665	gctgccctcgttgctggtgtcgtct	L25274
111666	gccctcgttgctggtgtcgtctact	L25274
111667	ctcgttgctggtgtcgtctactggc	L25274
111668	gtcgtctactggctgtacatgaaga	L25274
111669	aagtccaaaactgcatcaaaacatg	L25274
111670	aaagcagttcattctaccaacctgt	L25274
111671	gcagttcattctaccaacctgtcac	L25274
111672	tctaccaacctgtcacaggatctta	L25274
111673	accaacctgtcacaggatcttagag	L25274
111674	ctgtcacaggatcttagagaattat	L25274
111675	acttgcacagcagaaaaccaactgg	L25274
111676	tgcacagcagaaaaccaactggaga	L25274
111677	agaacagtaaactccctgaatgtct	L25274
111678	aactccctgaatgtctctgcgataa	L25274
111679	aatgtctctgcgataagtattccag	L25274
111680	ataagtattccagagcacgatgagg	L25274
111681	agtattccagagcacgatgaggcag	L25274
111682	attccagagcacgatgaggcagacg	L25274
111683	gacgttcagcctggccaacacgcac	W12756
111684	cagcctggccaacacgcacgctgat	W12756
111685	atcactggcaaggggatcctggcca	W12756
111686	gggatcctggccatcatgagagccc	W12756
111687	ctggccatcatgagagccctgcagc	W12756
111688	atgagagccctgcagcacaacacgg	W12756
111689	agagccctgcagcacaacacggtgc	W12756
111690	cacaacacggtgctcacggagctgc	W12756
111691	gtgctcacggagctgcgcttccaca	W12756
111692	gagctgcgcttccacaaccagcggc	W12756
111693	cacaaccagcggcacatcatgggct	W12756
111694	cagcggcacatcatgggctctcagg	W12756
111695	caacacgcacgctgatgacgccgcg	W12756
111696	cacatcatgggctctcaggtggaga	W12756
111697	cacgcacgctgatgacgccgcgcga	W12756
111698	tgacgccgcgcgattgccattgcag	W12756
111699	cgcgcgattgccattgcagacatgc	W12756
111700	attgcagacatgctcaaggttaacg	W12756
111701	gttaacgagcacattaccagcgtaa	W12756
111702	cacattaccagcgtaaacgtggagt	W12756
111703	gagtccaacttcatcactggcaagg	W12756
111704	ccagtgactatcgggcagcaccact	L26507
111705	actatcgggcagcaccacttccggt	L26507
111706	accacatctgcctcttctagcggag	L26507
111707	tctgcctcttctagcggagagcccg	L26507
111708	tcttctagcggagagcccgaggtca	L26507
111709	aaactcacgccacaggagccctagt	L26507
111710	ccctagtggccagcagctacattca	L26507
111711	tggccagcagctacattcaaggacc	L26507
111712	gcagctacattcaaggaccgagtgg	L26507
111713	acagcctgcagccctcatgtgggtg	L26507
111714	acataaacacgtacagacaacttga	L26507
111715	acacgtacagacaacttgattgtat	L26507
111716	tccgggctgtcactcagaatggaaa	L26507
111717	agcacggctgtacccacgaatagct	L26507
111718	gctgtacccacgaatagcttgactg	L26507
111719	cccacgaatagcttgactggcaatg	L26507
111720	cagctcctggcagcccaggcaagtt	L26507
111721	ctggcagcccaggcaagttcatcca	L26507
111722	gcaagttcatccactccagtggtca	L26507
111723	gccgtctcagtagccgctaatgcag	L26507
111724	acatacgcaccagtgagcaggacac	M61704
111725	cgatgatccttgtcactgccgacca	M61704
111726	gtggcccacaggcgcacctggtgca	M61704
111727	cgcacctggtgcacggagttcagga	M61704
111728	tggtgcacggagttcaggagcagaa	M61704

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26521	ttacatccgcaaattacagaaggaa	W76923	69125	cagcctgtgcgatggatagtaggta	AA066531	111729	actacatcgcgcacgtcatggcctt	M61704
26522	acatccgcaaattacagaaggaaca	W76923	69126	agaactggcagcgggcgttattggt	AA066531	111730	tcgcgcacgtcatggccttcgcagc	M61704
26523	acctaattgaacgcgcaggcgattc	W76923	69127	ctggcagcgggcgttattggtacac	AA066531	111731	acgtcatggccttcgcagcctgcct	M61704
26524	ctaattgaacgcgcaggcgattcaa	W76923	69128	tattggtacacgttttctgacaggt	AA066531	111732	cctacactgactgcggcctggcatc	M61704
26525	aattgaacgcgcaggcgattcaaca	W76923	69129	acattatccattttgcacagcctca	AA066531	111733	tgagcccgggctacatgtccacctt	M61704
26526	ttgaacgcgcaggcgattcaacatt	W76923	69130	cattttgcacagcctcagtgagtat	AA066531	111734	cgggctacatgtccaccttgctgtg	M61704
26527	tgggcacctcatccccaagtccaat	W76923	69131	ttttgcacagcctcagtgagtatcc	AA066531	111735	acatgtccaccttgctgtgcctgtt	M61704
26528	cctcatccccaagtccaatgatcgg	W76923	69132	gcacagcctcagtgagtatccagag	AA066531	111736	gactggctcccttcaaggctgagga	M61704
26529	tcatccccaagtccaatgatcggag	W76923	69133	agcctcagtgagtatccagagatgc	AA066531	111737	ctcccttcaaggctgaggatggcaa	M61704
26530	atccccaagtccaatgatcggagat	W76923	69134	gtattctcgttggagatccattgga	AA066531	111738	gtcctggttacaagctccataatgg	M61704
26531	ctgtggggcctgcaaggagaactac	D16432	69135	attctcgttggagatccattggagg	AA066531	111739	gttacaagctccataatggcgcccg	M61704
26532	gaactactgtctcatgattacattt	D16432	69136	tctcgttggagatccattggaggaa	AA066531	111740	agctccataatggcgcccgggctga	M61704
26533	cgattcttgctgcatcaacataact	D16432	69137	cggcgacttcagcccagatcgagat	AA066532	111741	ataatggcgcccgggctgatgtcac	M61704
26534	ttgctgcatcaacataactgtgggc	D16432	69138	cttcagcccagatcgagatgaacaa	AA066532	111742	cgtaccagcagcaggcctgtgtacc	M61704
26535	ggaatccactatccatacccagggc	D16432	69139	cagcagccaccctgaggaagaagca	AA066532	111743	caatattcgcgcgtggcccacaggc	M61704
26536	cactatccatacccagggctgcgtg	D16432	69140	agcagccaccctgaggaagaagcat	AA066532	111744	agctgcaggtgcgctcatggtgtat	W41762
26537	ccagggctgcgtggagactatagca	D16432	69141	cagccaccctgaggaagaagcatgc	AA066532	111745	ctgcaggtgcgctcatggtgtatga	W41762
26538	catactgctggtggctgcagcggcc	D16432	69142	agccaccctgaggaagaagcatgcg	AA066532	111746	cacttaagcagctggttgacagacg	W41762
26539	cattgcttttgtggaggtcttggga	D16432	69143	tcgacaacctgcagcggtggaatgc	AA066532	111747	cttaagcagctggttgacagacgca	W41762
26540	ctgctgtctggtgaagagtattcga	D16432	69144	cgacaacctgcagcggtggaatgcg	AA066532	111748	acgcaaggaatctcaccaatccaaa	W41762
26541	ggcgtttggtcttttcatggagtgg	D16432	69145	acaacctgcagcggtggaatgcgga	AA066532	111749	gcaaggaatctcaccaatccaaaca	W41762
26542	tggtcttttcatggagtggattctc	D16432	69146	caacctgcagcggtggaatgcggaa	AA066532	111750	ggaatctcaccaatccaaacactgt	W41762
26543	catgattacatttgccatcttcttg	D16432	69147	acctgcagcggtggaatgcggaagc	AA066532	111751	aatctcaccaatccaaacactgtaa	W41762
26544	tgccatcttcttgtctcttatcatg	D16432	69148	cctgcagcggtggaatgcggaagct	AA066532	111752	tctcaccaatccaaacactgtaata	W41762
26545	tgctggctatgtgtttagagaccag	D16432	69149	ttcagcccagatcgagatgaacaag	AA066532	111753	tcaccaatccaaacactgtaataat	W41762
26546	cttccagcagcagatgcagaattac	D16432	69150	gttccagagaatgcgcagggacctg	AA066532	111754	caatccaaacactgtaataattctc	W41762
26547	agacaacaaaacagccactattttg	D16432	69151	agcatgaagccacagcagccaccct	AA066532	111755	atccaaacactgtaataattctcat	W41762
26548	tggagcttctaactacacagactgg	D16432	69152	atgaagccacagcagccaccctgag	AA066532	111756	gcaggtgcgctcatggtgtatgaca	W41762
26549	ggacagagtccccgattcttgctgc	D16432	69153	tgaagccacagcagccaccctgagg	AA066532	111757	aggtgcgctcatggtgtatgacatc	W41762
26550	agtccccgattcttgctgcatcaac	D16432	69154	agccacagcagccaccctgaggaag	AA066532	111758	tgtatgacatcaccagaagaagtac	W41762
26551	gtttagccttctgaagaatcaggtc	U27177	69155	ccacagcagccaccctgaggaagaa	AA066532	111759	tatgacatcaccagaagaagtacat	W41762
26552	tcacctttttcttctgtgtgcctagc	U27177	69156	cacagcagccaccctgaggaagaag	AA066532	111760	agtacatataaccacttaagcagct	W41762
26553	atagtctgtcttgagtccttgtaca	U27177	69157	gcacacatgagggccaggagctctg	U45977	111761	tacatataaccacttaagcagctgg	W41762
26554	tgtcttgagtccttgtacatatttc	U27177	69158	ataatgcaactcttgcagtttcctt	U45977	111762	catataaccacttaagcagctggtt	W41762
26555	gagtccttgtacatatttctgtgta	U27177	69159	cacacaccttagtcacagcactcag	U45977	111763	tataaccacttaagcagctggttga	W41762
26556	tccttgtacatatttctgtgtagct	U27177	69160	aggtagctctcttgaatttgagacc	U45977	111764	cttcatgcgcctggtgggcaagaca	X76654
26557	atatttctgtgtagctataactact	U27177	69161	tgagaccagcctggtctacagagct	U45977	111765	cgagaccctcatccgggacatgctt	X76654
26558	agctataactactgtatcactttca	U27177	69162	ggtctacagagctagctccaggaca	U45977	111766	aggccctagccttgtcctggcagac	X76654
26559	tataactactgtatcactttcatta	U27177	69163	tagctccaggacataacatacatct	U45977	111767	tgtcctggcagaccttcaacagtct	X76654
26560	aactactgtatcactttcattatta	U27177	69164	ataacatacatctctgctacacaga	U45977	111768	ccttcaacagtctggagccagcatg	X76654
26561	gatttatccagtggctatgttaaaa	U27177	69165	tacatctctgctacacagagaatcc	U45977	111769	tggagccagcatgctggtgcctctg	X76654
26562	caattttcaggactttgtattaatg	U27177	69166	tctgctacacagagaatcccttatt	U45977	111770	cagcatgctggtgcctctggtgtca	X76654
26563	ccttttcttctgtgtgcctagcatc	U27177	69167	aatagaattgccttttttctcacatt	U45977	111771	gcctctggtgtcatgggtatctgga	X76654
26564	cttctgtgtgcctagcatcgggaag	U27177	69168	tctttctttccttttagagcacactg	U45977	111772	atctggaaaggccactgcagctagg	X76654
26565	ttggcagtctagctcagcatgtcta	U27177	69169	gttagatcatatttctctggaaatg	U45977	111773	cactgcagctaggcaggagtactat	X76654
26566	gcagtctagctcagcatgtctaaca	U27177	69170	tcatatttctctggaaatgatcagc	U45977	111774	gtactatgggccaggaggatcccct	X76654
26567	gtctagctcagcatgtctaacatat	U27177	69171	agccctggaggtgctgcctcgttgg	U45977	111775	tggatacatggtccacggagggcac	X76654
26568	agcatgtctaacatatccagtgctg	U27177	69172	ctcctcagaaacccgcagagtcact	U45977	111776	cctcatccgggacatgcttctgtca	X76654
26569	tccagtgctggctaatttgaacgat	U27177	69173	ccgcagagtcactgtctactctgtg	U45977	111777	catgcttctgtcagggagcaccttt	X76654
26570	atttggctgccaattaatgatgaat	U27177	69174	tgtctactctgtgagaaagtgcggg	U45977	111778	tctgtcagggagcaccttaactgg	X76654
26571	atctccctaaatcacatggctgctg	U11692	69175	atcattactttagccagcagtagtg	U45977	111779	caccttaactggccctatggctcg	X76654
26572	gctgctgcatacattgcaatgttgc	U11692	69176	tggtgccacacaccttagtcacagc	U45977	111780	gccctatggctcgggctagtgatag	X76654
26573	tttggcaagccagttcttattagac	U11692	69177	gattactaccgctacctggcagagg	D87661	111781	tggctcgggctagtgatagtcacct	X76654
26574	attagacactgctacaggcttcaca	U11692	69178	taccgctacctggcagaggtggctt	D87661	111782	ttccaggacacacatggaaactggg	X76654
26575	cactgctacaggcttcacaatcttc	U11692	69179	tcctataaggactccactctcatca	D87661	111783	atctccaggccctagccttgtcctg	X76654
26576	tacaggcttcacaatcttcaaggtg	U11692	69180	cccattatcactgattcttccttgc	D87661	111784	cccaggacgtgtctctgctgcaacc	W12794
26577	cttcacaatcttcaaggtggaccca	U11692	69181	atcactgattcttccttgccacaat	D87661	111785	aggacgtgtctctgctgcaacctct	W12794
26578	agatctctggcttcgagctcatatc	U11692	69182	gattcttccttgccacaatcactat	D87661	111786	ttgctgacaccgcacactaccaggt	W12794
26579	ctggcttcgagctcatatcttggct	U11692	69183	ccacaatcactatatctagtgctaa	D87661	111787	cacactaccaggttcagctcgcgca	W12794
26580	tcatatcttggcttcctgtcatgtc	U11692	69184	tcactatatctagtgctaaacctat	D87661	111788	actaccaggttcagctcgcgcagct	W12794
26581	ttcctgtcatgtctaagcccgacag	U11692	69185	gtgctaaacctatctgtattggcag	D87661	111789	accaggttcagctcgcgcagctaca	W12794
26582	tgtggcaccatcctgcctgcggcgt	U11692	69186	tctgtattggcagcacagctattca	D87661	111790	aggttcagctcgcgcagctacatgg	W12794
26583	tttgcaagttgcttcttcactcatt	U11692	69187	ttggcagcacagctattcagatctg	D87661	111791	agctcgcgcagctacatggtcacca	W12794
26584	tgaagaagcctgcaccgtaagtgaa	U11692	69188	gcacagctattcagatctgccctcc	D87661	111792	agctacatggtcaccaactgctcgt	W12794
26585	aactcacttagtccttgctaattgc	U11692	69189	gagatccagaatgcaccagagcaag	D87661	111793	tacatggtcaccaactgctcgtccg	W12794
26586	actgtcacgtgaacgcagagaaggc	U11692	69190	ttcagataaaccttcatgggcattt	D87661	111794	tgctcgtccgagactccgtcatcga	W12794
26587	ctgattttcctggacccattttcag	U11692	69191	gcaccagagcaagcctgcctcttag	D87661	111795	tcgtccgagactccgtcatcgaagt	W12794
26588	ttcctggacccatttttcagtgcttt	U11692	69192	gagcaagcctgcctcttagccaaac	D87661	111796	acgtgtctctgctgcaacctcttga	W12794

TABLE 1

SEQ ID NO	sequence	DBAxnID
26589	gacccattttcagtgctttgaggaa	U11692
26590	ttttcagtgctttgaggaacatgag	U11692
26591	ggaaccacgtgtccatgtgcattgt	L12059
26592	acgtgtccatgtgcattgtaaacgg	L12059
26593	gaaagccctggaacagagtggtcca	L12059
26594	aagttctctgcaccaagtgtcgagt	L12059
26595	tctgcaccaagtgtcgagtgcccat	L12059
26596	gtcgagtgcccatctatgagcctct	L12059
26597	tgcccatctatgagcctcttgaaat	L12059
26598	tactaaagcatgactctggtgatca	L12059
26599	ctgaatacatctcaaaaatgaaagt	L12059
26600	ggatcaagttctctgcagcaagtca	L12059
26601	ctgcagcaagtcattaccagggaag	L12059
26602	tttcactttcggcagtgatctttgt	L12059
26603	ggtcccccattgatgagaagaacaa	L12059
26604	agaacctggctgctgtgctgccctt	L12059
26605	tggctgctgtgctgccctttggagg	L12059
26606	ctgtgctgccctttggagggacatt	L12059
26607	aggcttttgagcacagcgtgcatcg	L12059
26608	tgcatcgctatggccagtccaccgg	L12059
26609	gctatggccagtccaccggagagtt	L12059
26610	ccaccggagagttcctgcaagtggg	L12059
26611	cttggcagccccatcttcttactac	D29987
26612	ttactacaaactgcttcgggagaat	D29987
26613	tctgttcaaggcgttcgaggaggag	D29987
26614	cctacggggcaacctcactgacctg	D29987
26615	cctcactgacctggagcccaatggt	D29987
26616	tatccacacatggccacgcaaagtg	D29987
26617	gccacgcaaagtgcgtggacacatc	D29987
26618	acacatcagtcatctccaactggct	D29987
26619	cagtcatctccaactggctgaaagg	D29987
26620	tctccaactggctgaaaggctgaac	D29987
26621	ttgcctgagtcctccctgctgagta	D29987
26622	gagtcctccctgctgagtaaagcta	D29987
26623	caaactgcttcgggagaatctcaag	D29987
26624	gcatatcctagtcgactatgacgag	D29987
26625	gaaaggctacctcctacagatcttc	D29987
26626	ctacctcctacagatcttcaccaag	D29987
26627	cacactcttcctggaagtcattcaa	D29987
26628	ggaagtcattcaacgtcacaaccac	D29987
26629	cattcaacgtcacaaccaccagggc	D29987
26630	caactctctgttcaaggcgttcgag	D29987
26631	ggcacagccggggatgctctcacct	W77035
26632	ggggatgctctcacctaccacaatg	W77035
26633	agcaactgtgcactgacgcatcatg	W77035
26634	aactgtgcactgacgcatcatggtg	W77035
26635	tgtgcactgacgcatcatggtggct	W77035
26636	ctgacgcatcatggtggctggtggt	W77035
26637	acgcatcatggtggctggtggtata	W77035
26638	catcatggtggctggtggtataaga	W77035
26639	tataagaactgccatttggccaacc	W77035
26640	aactgccatttggccaacccgaatg	W77035
26641	aactgggagccatggaagggacatg	W77035
26642	attccttatgtggagctgagaatcc	W77035
26643	gctctcacctaccacaatggatgga	W77035
26644	ctcacctaccacaatggatggaagt	W77035
26645	acctaccacaatggatggaagttca	W77035
26646	aagttcacgacttttgacagagaca	W77035
26647	gacaatgatattgccctcagcaact	W77035
26648	gatattgccctcagcaactgtgcac	W77035
26649	attgccctcagcaactgtgcactga	W77035
26650	ctcagcaactgtgcactgacgcatc	W77035
26651	gggccaccagcacgatgagtgaagg	U28726
26652	aacataacagcaccatgttagagtc	U28726
26653	agccaggccctatgtccaacagtgt	U28726
26654	gccctatgtccaacagtgttttcct	U28726
26655	tgtccaacagtgttttcctgacaac	U28726
26656	acagtgttttcctgacaactggaga	U28726

SEQ ID NO	sequence	DBAxnID
69193	gcctgcctcttagccaaacaagcct	D87661
69194	ctcttagccaaacaagccttcgatg	D87661
69195	caagccttcgatgatgctatagctg	D87661
69196	gatgctatagctgagctggacacat	D87661
69197	atagctgagctggacacattaaacg	D87661
69198	acacacatctccatgaaccacttga	AA107252
69199	cacatctccatgaaccacttgaagg	AA107252
69200	tggatgatgtgccccttcttgtcca	AA107252
69201	atgtgccccttcttgtccagcatga	AA107252
69202	cccttcttgtccagcatgatgttgc	AA107252
69203	agcatgatgttgccattgtgcctgt	AA107252
69204	atgttgccattgtgcctgtccttga	AA107252
69205	ccattgtgcctgtccttgatctgca	AA107252
69206	ttgtgcctgtccttgatctgcagca	AA107252
69207	ttgatctgcagcaggaacagcagga	AA107252
69208	atctgcagcaggaacagcaggaggc	AA107252
69209	gcggccatgcttctgataaagttgt	AA107252
69210	atctccatgaaccacttgaagggtg	AA107252
69211	cccataatcatcaccatctcgtctg	AA107252
69212	ataatcatcaccatctcgtctgtca	AA107252
69213	atcatcaccatctcgtctgtcagct	AA107252
69214	accatctcgtctgtcagcttgatgt	AA107252
69215	atctcgtctgtcagcttgatgtctg	AA107252
69216	tcgtctgtcagcttgatgtctggtt	AA107252
69217	agcttgatgtctggttcccagccaa	AA107252
69218	acattatggcccaggcacctactca	AA066593
69219	ttatggcccaggcacctactcagaa	AA066593
69220	ttccatcatccagtggggcaatgag	AA066593
69221	ggcaaccagcagcccaggcaggtgt	AA066593
69222	cagcagcccaggcaggtgtttcaca	AA066593
69223	cccaggcaggtgtttcacagggtca	AA066593
69224	tttcacagggtcaggtacctggagc	AA066593
69225	tccctaaccctctgaacatgctggc	AA066593
69226	tgaacatgctggcaccccaggccag	AA066593
69227	tgccttgcccaccagtgacacagtc	AA066593
69228	gcccaccagtgacacagtcaccatt	AA066593
69229	tgacacagtcaccattgcacccgac	AA066593
69230	tggcccaggcacctactcagaacca	AA066593
69231	aggcacctactcagaaccagtttct	AA066593
69232	cacctactcagaaccagtttctgcc	AA066593
69233	ctactcagaaccagtttctgccaca	AA066593
69234	accagtttctgccacagaaccagtt	AA066593
69235	tgccacagaaccagtttccatcatc	AA066593
69236	agaaccagtttccatcatccagtgg	AA066593
69237	agtttccatcatccagtggggcaat	AA066593
69238	gaccgagctgatccagaaggccaag	
69239	caagctggcgtgcagcgagcgctac	
69240	ctgcatgaaagccgtgacggagcag	
69241	cgccgagctgtccaacgaggagcgc	
69242	cgagctgtccaacgaggagcgcaac	
69243	gctgtccaacgaggagcgcaacctg	
69244	caacctgctgtcggtggcctacaaa	
69245	tccgcctggagggtcatctcgagca	
69246	agggtcatctcgagcattgagcaga	
69247	gtcatctcgagcattgagcagaaga	
69248	atctcgagcattgagcagaagaccg	
69249	cagaagaccgacacctctgacaaga	
69250	cagcgagcgctacgacgacatggcc	
69251	gcgctacgacgacatggccacctgc	
69252	ctacgacgacatggccacctgcatg	
69253	cgacgacatggccacctgcatgaaa	
69254	cgacatggccacctgcatgaaagcc	
69255	catggccacctgcatgaaagccgtg	
69256	ggccacctgcatgaaagccgtgacg	
69257	cacctgcatgaaagccgtgacggag	
69258	actcgcgtcgcgctgcgagactaga	
69259	cgtcgcgctgcgagactagaaggag	
69260	tcgcgctgcgagactagaaggagga	

SEQ ID NO	sequence	DBAxnID
111797	cgtccgagactccgtcatcgaagtg	W12794
111798	ctctgctgcaacctcttgaagcggc	W12794
111799	tgctgcaacctcttgaagcggcagg	W12794
111800	tgcaacctcttgaagcggcaggact	W12794
111801	aacctcttgaagcggcaggactggg	W12794
111802	agttacagggaccgcctcttctgct	W12794
111803	tacagggaccgcctcttctgcttca	W12794
111804	tgcttcagtcggataacttcctcct	W12794
111805	gagagcccctcaagtgcgatcctg	W85270
111806	cccttcaagtgcgatcctgatgctg	W85270
111807	tcactgccgacagatgtggataaat	W85270
111808	ttccatcagcagaaaaactgaagag	W85270
111809	aactgaagagcttcctctggaacac	W85270
111810	agagcttcctctggaacacgagctg	W85270
111811	gcttcctctggaacacgagctgtta	W85270
111812	ggaacacgagctgttacggccgcat	W85270
111813	acacgagctgttacggccgcatcct	W85270
111814	cgagctgttacggccgcatcctgtt	W85270
111815	gttacggccgcatcctgttcacctg	W85270
111816	acggccgcatcctgttcacctggaa	W85270
111817	ttcaagtgcgatcctgatgctgcca	W85270
111818	tcctgttcacctggaagcattagat	W85270
111819	gatcctgatgctgccaaagccattg	W85270
111820	cctgatgctgccaaagccattgtgg	W85270
111821	gatgctgccaaagccattgtggatg	W85270
111822	aaagccattgtggatgctttgccac	W85270
111823	ccatgtgaatctgcctgctcactgc	W85270
111824	gaatctgcctgctcactgccgacag	W85270
111825	tctgcctgctcactgccgacagatg	W85270
111826	caacatggtctcagcagtgaaacag	L12147
111827	tgctttcgcaccagttgtcagaccc	L12147
111828	aaatcaccgaccttgcaaatactga	L12147
111829	ccgaccttgcaaatactgaaattgg	L12147
111830	gataaaaagcaagcccacattttct	L12147
111831	tcttttcttaagcttaactctgcaa	L12147
111832	cttaagcttaactctgcaaccattt	L12147
111833	cttaactctgcaaccatttgtcttt	L12147
111834	ttataaaccattaagctacacacaa	L12147
111835	accattaagctacacacaagggcca	L12147
111836	aagctacacacaagggccactataa	L12147
111837	cacacaagggccactataaacaaga	L12147
111838	cgcaccagttgtcagaccccagacg	L12147
111839	caccagcaccaacgggaacagcctg	L12147
111840	caccaacgggaacagcctgcaagcg	L12147
111841	cagcctgcaagcgatatctggcatg	L12147
111842	ttggattctgctacgaaagttatct	L12147
111843	gttatctgacatgagtcccagagtg	L12147
111844	tgacatgagtcccagagtggaactt	L12147
111845	aatcacacaataactgcagattttt	L12147
111846	atcatgcctcccaagaaggatgctc	AA027525
111847	atgcctcccaagaaggatgctcccg	AA027525
111848	cctgctgccaagtctacaccaggga	AA027525
111849	gctgccaagtctacaccagggaccc	AA027525
111850	cctgttgatctctccaaagtggtga	AA027525
111851	gttgatctctccaaagtggtgatcg	AA027525
111852	gatctctccaaagtggtgatcgagt	AA027525
111853	ctctccaaagtggtgatcgagttta	AA027525
111854	gaggcctttgagctgtttgaccgag	AA027525
111855	gcctttgagctgtttgaccgagtag	AA027525
111856	tttgagctgtttgaccgagtaggtg	AA027525
111857	tgagctgtttgaccgagtaggtgat	AA027525
111858	cctcccaagaaggatgctcccgtga	AA027525
111859	gacctgatgagggccctgggcacga	AA027525
111860	aaggatgctcccgtgaagaaaccag	AA027525
111861	gatgctcccgtgaagaaaccagcag	AA027525
111862	gcagggccctccatctctaagcctg	AA027525
111863	tccatctctaagcctgctgccaagt	AA027525
111864	atctctaagcctgctgccaagtcta	AA027525

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26657	agttcctcaagatggagactttgat	U28726	69261	caagctggcgtgcagcgagcgctac		111865	tctaagcctgctgccaagtctacac	AA027525
26658	agaactacagatgcggctaaaagca	U28726	69262	aagctggcgtgcagcgagcgctacg		111866	aagcctgctgccaagtctacaccag	AA027525
26659	actagaccccatgatggaacgagaa	U28726	69263	cagcgagcgctacgacgacatggcc		111867	cctagtcctgcccgtgatgagtgct	L33416
26660	acaacctatcctggatgccatggat	U28726	69264	agcgagcgctacgacgacatggcca		111868	cctgcccgtgatgagtgcttcgccc	L33416
26661	tatcctggatgccatggatgcgaag	U28726	69265	gcgagcgctacgacgacatggccac		111869	tgctgtgacctgtctcctgaagata	L33416
26662	ttccctctgtctcaggatgaccaga	U28726	69266	actcgcgtcgcgctgcgagactaga		111870	gacctgtctcctgaagataagcaaa	L33416
26663	acagcaccatgttagagtcggacct	U28726	69267	cgtcgcgctgcgagactagaaggag		111871	atcaactgcttcaataccaactacc	L33416
26664	tagagtcggacctggggaccatggt	U28726	69268	tcgcgctgcgagactagaaggagga		111872	tgcttcaataccaactacctgagga	L33416
26665	atgcaacgtcacctcaagtacaaag	U28726	69269	caagctggcgtgcagcgagcgctac		111873	ggcccaactcggggaacagatgcca	L33416
26666	ctcaagtacaaagaccttctttcat	U28726	69270	aagctggcgtgcagcgagcgctacg		111874	gcccctgggtccaaggaagaatgag	L33416
26667	tacaaagaccttctttcatggacta	U28726	69271	cagcgagcgctacgacgacatggcc		111875	gaatgagtcaccctgagcctcagag	L33416
26668	gaccttctttcatggactactttga	U28726	69272	agcgagcgctacgacgacatggcca		111876	gtcaccctgagcctcagaggattag	L33416
26669	ctttcatggactactttgataagca	U28726	69273	gcgagcgctacgacgacatggccac		111877	ctgagcctcagaggattagatgggg	L33416
26670	tgcgtgagccaggccctatgtccaa	U28726	69274	cacatcactggtctgctctcgctag	AA169054	111878	ctcgaacactcattacaataaatgc	L33416
26671	acactgggtacctgtcatgctgccg	U34960	69275	acatcactggtctgctctcgctagc	AA169054	111879	tatcccaactatgaccgggatatct	L33416
26672	acctgtcatgctgccgcttcctgga	U34960	69276	gccattgcctcgggcgctgttttct	AA169054	111880	gatatcttgacccttgacctcagcc	L33416
26673	atgtgatgtccctgtcactggcccc	U34960	69277	ctgttttctgagacctcgcctcgcc	AA169054	111881	aacctcatgggccagctctgtggaa	L33416
26674	tgatgtccctgtcactggcccccga	U34960	69278	gccgttacgcgtgcctcaggcccag	AA169054	111882	atgggccagctctgtggaagtggaa	L33416
26675	ccgatggccgaacctttgtgtcagg	U34960	69279	ccgttacgcgtgcctcaggcccagt	AA169054	111883	attccggggctgatccagaatatga	L33416
26676	gaacctttgtgtcaggtgcctgtga	U34960	69280	cgacgccggcaggtgatgcccaata	AA169054	111884	atccagaatatgaccgtccgctgct	L33416
26677	ttgtgtcaggtgcctgtgacgcctc	U34960	69281	acgccggcaggtgatgcccaataca	AA169054	111885	tgcgagcttccatatccagaacagg	L33416
26678	gtgcctgtgacgcctccatcaagct	U34960	69282	cgccggcaggtgatgcccaatacag	AA169054	111886	gcctgctgcggcgaagaggagaaac	L33416
26679	cctccatcaagctgtgggatgttcg	U34960	69283	ggtgatgcccaatacagccatgaag	AA169054	111887	actctaactacctgcaccgagtgac	W12620
26680	ccatcaagctgtgggatgttcggga	U34960	69284	gtgatgcccaatacagccatgaaga	AA169054	111888	gagtgactacactcttctgcatcac	W12620
26681	agtcggacatcaatgccgtggcttt	U34960	69285	tgatgcccaatacagccatgaagaa	AA169054	111889	ccactaagcacatgctgcccacagt	W12620
26682	cggacatcaatgccgtggctttctt	U34960	69286	ctgctctcgctagctcggagcggct	AA169054	111890	ctaagcacatgctgcccacagttct	W12620
26683	tgtcatgctgccgcttcctggacga	U34960	69287	gctctcgctagctcggagcggctgt	AA169054	111891	acatgctgcccacagttcttcgtct	W12620
26684	catgctgccgcttcctggacgacaa	U34960	69288	ctctcgctagctcggagcggctgtg	AA169054	111892	caggggacccagttgccgatgtccg	W12620
26685	gccgcttcctggacgacaaccaaat	U34960	69289	tcgctagctcggagcggctgtggcc	AA169054	111893	gggacccagttgccgatgtccgctt	W12620
26686	gcttcctggacgacaaccaaatcat	U34960	69290	cgctagctcggagcggctgtggcca	AA169054	111894	cagttgccgatgtccgcttcaatgt	W12620
26687	tcctggacgacaaccaaatcatcac	U34960	69291	tagctcggagcggctgtggccattg	AA169054	111895	tcaatgtcgccacgtcactccagac	W12620
26688	acaaccaaatcatcaccagctctgg	U34960	69292	tggccattgcctcgggcgctgtttt	AA169054	111896	tcgccacgtcactccagacgatagg	W12620
26689	accaaatcatcaccagctctgggga	U34960	69293	ggccattgcctcgggcgctgttttc	AA169054	111897	cgataggacccattctcgatcacag	W12620
26690	acattgagacaggccagcagacggt	U34960	69294	taaacttgattcagcagcaaggaat	U10304	111898	ttctcgatcacagcaccctgcagag	W12620
26691	aatccctgccaagcagcctgggcca	M74897	69295	ttcagtacctaacagacaaaagtgt	U10304	111899	ctacactcttctgcatcactgtgca	W12620
26692	tgccaagcagcctgggccagagaca	M74897	69296	tttcctgaattatacacagaacaat	U10304	111900	cactcttctgcatcactgtgcagtc	W12620
26693	tgctcattggctgcatcgctggctt	M74897	69297	atactcagacaatcactcacattct	U10304	111901	tcttctgcatcactgtgcagtctga	W12620
26694	ttggctgcatcgctggcttgatctt	M74897	69298	agacaatcactcacattcttaatta	U10304	111902	gcatcactgtgcagtctgaggtctg	W12620
26695	tgatcttcttgaccttcgtcacatt	M74897	69299	tcactcacattcttaattatcacta	U10304	111903	ctgtgcagtctgaggtctgtggaca	W12620
26696	tcttgaccttcgtcacattctctac	M74897	69300	acattcttaattatcactaggataa	U10304	111904	agtctgaggtctgtggacaggatct	W12620
26697	tctctaccaccaacggaaagctgcg	M74897	69301	atccatttctataacctgttgctct	U10304	111905	gacaggatctcaccactaagcacat	W12620
26698	agctgcggcagtgagcagctacccg	M74897	69302	ttctataacctgttgctctgaaatc	U10304	111906	aggatctcaccactaagcacatgct	W12620
26699	gagcagctacccgcggatgtccacc	M74897	69303	ttgctctgaaatcacttaagaacca	U10304	111907	cttattctacgacactagaaatctt	L11316
26700	tttccttcctgtggtcagaacactc	M74897	69304	tgaaatcacttaagaaccaggatgc	U10304	111908	attctacgacactagaaatcttgat	L11316
26701	tccatccctgtacagttctgctatg	M74897	69305	cagttgctgtttgttagttggttgg	U10304	111909	ccattatcttctactgcaatatttc	L11316
26702	cctgtacagttctgctatgcttctg	M74897	69306	acctaacagacaaaagtgtgcatat	U10304	111910	ctgggctactatggccaagaatatt	L11316
26703	atcccagcagacagaagcgctcggt	M74897	69307	tctaagttcatttttctacagaagag	U10304	111911	tttatttcttacacgttcagaggag	L11316
26704	agttctgctatgcttctgcgaattc	M74897	69308	taaattccctattccagggagctgt	U10304	111912	atttcttacacgttcagaggagtgt	L11316
26705	tggaggaccacaactggccacagta	M74897	69309	tccagggagctgtgccaagggaaga	U10304	111913	gtgttacaggtctccttgttacata	L11316
26706	accacaactggccacagtacttcag	M74897	69310	ttgacaacagacttaacagagcaga	U10304	111914	gtctccttgttacataattttcaat	L11316
26707	cacagtacttcagagacccctgtga	M74897	69311	agaatggacactctttgctctaagc	U10304	111915	aattttcaataatctgctttaatag	L11316
26708	tctctgggcacgccttttttctacgc	M74897	69312	ctttgctctaagctttgaagaatca	U10304	111916	tctataccatgtatgtaccaattca	L11316
26709	agcgctgtcaggccatgcacgtgca	M74897	69313	agaatcactctgtttcctgaattat	U10304	111917	ataccatgtatgtaccaattcacag	L11316
26710	ccatgcacgtgcacggcagcttgct	M74897	69314	tgaaaactccgcatgcctatgcggg	X66976	111918	taccaattcacaggttagtaaatga	L11316
26711	tgggcctgctcattggctgcatcgc	M74897	69315	cagcctatgagatgcctgcgtttac	X66976	111919	ctacgacactagaaatcttgattta	L11316
26712	cactgggtcctacatcgccaatcga	U13393	69316	ttgcttatcatgttcactgcaaggg	X66976	111920	gaattgcttctgttctttgtacagt	L11316
26713	ctacatcgccaatcgagtgactgac	U13393	69317	atcatgttcactgcaagggaggcaa	X66976	111921	cttctgttctttgtacagttctgaa	L11316
26714	ttaccagcttggtttccacagtatt	U13393	69318	tcaagaacaacgagcccatgatgta	X66976	111922	tgtcttcagttttgctaatcgcctg	L11316
26715	ccagcttggtttccacagtattgaa	U13393	69319	acaacgagcccatgatgtacacata	X66976	111923	cttcagttttgctaatcgcctgtga	L11316
26716	tttccacagtattgaactgaacgag	U13393	69320	tgatgtacacatacgacgagtacaa	X66976	111924	tgctaatcgcctgtgaaaagcatag	L11316
26717	tgaactgaacgagcctccactagtc	U13393	69321	gcttcctggaccaagcatctggaag	X66976	111925	taatcgcctgtgaaaagcatagata	L11316
26718	actgaacgagcctccactagtccac	U13393	69322	ccttcgaacaggctgctggactcta	X66976	111926	ctgccattatcttctactgcaatat	L11316
26719	ccacacagccgccagtctctttaag	U13393	69323	aacaggctgctggactctatgccgg	X66976	111927	cgagctccggactgcccagtttgaa	W29508
26720	gatgtgttaccggtacagagaagat	U13393	69324	ctgctggactctatgccgggcaata	X66976	111928	gctccggactgcccagtttgaaaag	W29508
26721	catcattgcaggctgggaccctcaa	U13393	69325	ggcaatatgtccactcctccttttc	X66976	111929	cactctgcagcttcaaaagccgaga	W29508
26722	aatccccaagttcaccattgccacg	U13393	69326	tgcctgcgtttactgccgagctgac	X66976	111930	gcagcttcaaaagccgagagatgcc	W29508
26723	ccccaagttcaccattgccacgttg	U13393	69327	ttgacaagctgctctacaacggcag	X66976	111931	gcttcaaaagccgagagatgcctaa	W29508
26724	catcgccaatcgagtgactgacaag	U13393	69328	tctacaacggcagacagaactacaa	X66976	111932	caccacaatcaacatgcctgagatc	W29508

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26725	catcttctgctgccgctcaggctca	U13393	69329	gacagaactacaatccgcagacagg	X66976	111933	cacaatcaacatgcctgagatctcc	W29508
26726	ctcaggctcagccgctgatacccaa	U13393	69330	actacaatccgcagacaggcatctt	X66976	111934	aatcaacatgcctgagatctccacg	W29508
26727	aggctcagccgctgatacccaagct	U13393	69331	agacaggcatcttcacctgtgaagt	X66976	111935	caacatgcctgagatctccacgcct	W29508
26728	agccgctgatacccaagctgtggca	U13393	69332	gggtctactactttgcttatcatgt	X66976	111936	catgcctgagatctccacgcctgac	W29508
26729	cgctgatacccaagctgtggcagac	U13393	69333	actactttgcttatcatgttcactg	X66976	111937	gcctgagatctccacgcctgaccat	W29508
26730	tgatacccaagctgtggcagacgct	U13393	69334	gattgatttcccactttgtgcccat	AA066621	111938	tgagatctccacgcctgaccatgtg	W29508
26731	tgtggcagacgctgtcacttaccag	U13393	69335	attgatttcccactttgtgcccata	AA066621	111939	gactgcccagtttgaaaagccttct	W29508
26732	actttatacactgacagtgactttc	U14332	69336	aaccattgaaggcttgccgtaattg	AA066621	111940	tgaaaagccttctcattccttcctt	W29508
26733	gacagtgactttcatcccagttgca	U14332	69337	accattgaaggcttgccgtaattgg	AA066621	111941	gccttctcattccttccttattctc	W29508
26734	gaatctggctgcaaggaatgtgagg	U14332	69338	ccattgaaggcttgccgtaattggt	AA066621	111942	ttccttccttattctcactctgcag	W29508
26735	agctttatacgcattgtccaaatgt	U14332	69339	ttgaaggcttgccgtaattggttgc	AA066621	111943	cttccttattctcactctgcagctt	W29508
26736	caaatgttcatcaacacgtcctgac	U14332	69340	tgaaggcttgccgtaattggttgca	AA066621	111944	ccttattctcactctgcagcttcaa	W29508
26737	aacacgtcctgactgcatgcgagcc	U14332	69341	gaaggcttgccgtaattggttgcaa	AA066621	111945	tattctcactctgcagcttcaaaag	W29508
26738	tcctgactgcatgcgagcctcttcc	U14332	69342	cttgccgtaattggttgcaaacaat	AA066621	111946	tctcactctgcagcttcaaaagccg	W29508
26739	gcgagcctcttccgtgtttctgtta	U14332	69343	tcccactttgtgcccatattgtggt	AA066621	111947	actgtacacagaagccttggggata	AA033375
26740	ccacctgctgctcagaggcagcaca	U14332	69344	cccactttgtgcccatattgtggta	AA066621	111948	tacacagaagccttggggatagatc	AA033375
26741	gctgctcagaggcagcacagctcca	U14332	69345	ccactttgtgcccatattgtggtag	AA066621	111949	ctcgatgacacttacatcaaagcct	AA033375
26742	cagaggcagcacagctccatgcatt	U14332	69346	cactttgtgcccatattgtggtaga	AA066621	111950	atgacacttacatcaaagcctacct	AA033375
26743	agctccatgcatttgaaatctgctg	U14332	69347	actttgtgcccatattgtggtagaa	AA066621	111951	cacttacatcaaagcctacctgaga	AA033375
26744	gactttcatcccagttgcaaagtta	U14332	69348	taggcaaatctcctttggaaaccat	AA066621	111952	tacatcaaagcctacctgagaagag	AA033375
26745	catcccagttgcaaagttactgcaa	U14332	69349	ggcaaatctcctttggaaaccattg	AA066621	111953	catcaaagcctacctgagaagagct	AA033375
26746	atgaactgctttctcctggaattgc	U14332	69350	tctcctttggaaaccattgaaggct	AA066621	111954	aaagcctacctgagaagagctcagt	AA033375
26747	tgctttctcctggaattgcaggtta	U14332	69351	gacagaactagccaaaacgatgcct	X98096	111955	cctacctgagaagagctcagtgtta	AA033375
26748	tacagtaacatgactcttaatgaaa	U14332	69352	tttgtgactgacaaccagacccttc	X98096	111956	aagagctcagtgttacatggacaca	AA033375
26749	taccttgcaaacagcactctgtctt	U14332	69353	acgtcaacagcagacttttggatc	X98096	111957	agaagccgtgcgtgactatgaaaaa	AA033375
26750	gcaaacagcactctgtcttctaaca	U14332	69354	caagtcacttctcagaagaaagctg	X98096	111958	aagccgtgcgtgactatgaaaaagt	AA033375
26751	agcactctgtcttctaacaagaatg	U14332	69355	tccaccaggcttaccaaatgagctc	X98096	111959	cacagaagccttggggatagatccc	AA033375
26752	gggtaaccttggcaggccatcagaa	AA058194	69356	accaaatgagctcctttgagcagcc	X98096	111960	agaacacaaacagctccttaagaat	AA033375
26753	aaccttggcaggccatcagaagaag	AA058194	69357	ccttccgtgctccatatcatggatc	X98096	111961	caaatgctaaactctactgtaatcg	AA033375
26754	gtcaccatcggtaatggcgtgagaa	AA058194	69358	gtgctccatatcatggatccagagc	X98096	111962	aatgctaaactctactgtaatcggg	AA033375
26755	ccatcggtaatggcgtgagaactcg	AA058194	69359	tagcaactcagtttagcactgccaa	X98096	111963	tgctaaactctactgtaatcggggt	AA033375
26756	aggttgaccactgtggaatgtgcca	AA058194	69360	gatgacatcttcaccagatgccaca	X98096	111964	gttaattccaagcttaggcaactgg	AA033375
26757	gttgaccactgtggaatgtgccaga	AA058194	69361	atcttcaccagatgccacaactggc	X98096	111965	taattccaagcttaggcaactggaa	AA033375
26758	accactgtggaatgtgccagaaaga	AA058194	69362	accagatgccacaactggccagact	X98096	111966	attccaagcttaggcaactggaaga	AA033375
26759	agatcagcttcttggctgagaaaca	AA058194	69363	ccgccagcattctcttccatagaca	X98096	111967	agctcgatgacacttacatcaaagc	AA033375
26760	atcagcttcttggctgagaaacaac	AA058194	69364	tcttccatagacaagcaagtctatg	X98096	111968	gcgtcgctcactcgatcaatgagct	W12879
26761	acaacttcccatctgtgaagaatga	AA058194	69365	aagcaagtctatgcagccatgccca	X98096	111969	gtcgctcactcgatcaatgagctca	W12879
26762	aacttcccatctgtgaagaatgaac	AA058194	69366	gtctatgcagccatgcccatcaata	X98096	111970	tagagaaaatcttcccagtcatttc	W12879
26763	tgaactggacttgttgcccacggga	AA058194	69367	gcagccatgcccatcaatagctttc	X98096	111971	agagaaaatcttcccagtcatttca	W12879
26764	ctgagtagcattcactcaatgaggg	AA058194	69368	atgcccatcaatagctttcgatcag	X98096	111972	ccagtcatttcaagttcaaggagta	W12879
26765	gagtagcattcactcaatgagggtc	AA058194	69369	ctaatagtcggtgactcacagcacc	X98096	111973	cagtcatttcaagttcaaggagtat	W12879
26766	agcattcactcaatgagggtccaga	AA058194	69370	tctgccacgtcaacagcagacttttt	X98096	111974	agtcatttcaagttcaaggagtatt	W12879
26767	cattcactcaatgagggtccagatg	AA058194	69371	tgccaagcctaaaaaagcagcaaag	Z46227	111975	tcatttcaagttcaaggagtattgt	W12879
26768	agatgaaccagtcaccatcggtaat	AA058194	69372	taagaccgctaagcctaaggctgcc	Z46227	111976	gagtattgtccccaggtcttcagga	W12879
26769	atgaaccagtcaccatcggtaatgg	AA058194	69373	tggtctgtctcgattgggacagtta	Z46227	111977	ttgtccccaggtcttcaggaacctg	W12879
26770	gaaccagtcaccatcggtaatggcg	AA058194	69374	aactggaaacccttatctgccacgat	Z46227	111978	tgtccccaggtcttcaggaacctga	W12879
26771	cagtcaccatcggtaatggcgtgag	AA058194	69375	aacccttatctgccacgattcctgt	Z46227	111979	gtccccaggtcttcaggaacctgag	W12879
26772	aacgctaagctactggtgaaagagg	L21027	69376	tatctgccacgattcctgtgctcac	Z46227	111980	tcgctcactcgatcaatgagctcag	W12879
26773	ctcctgactgtggccctagcaggtg	L21027	69377	ttcctgtgctcacaatctacaaggt	Z46227	111981	cgctcactcgatcaatgagctcagc	W12879
26774	ctcctggcagaagcgggtgtacagc	L21027	69378	tgctcacaatctacaaggtaagact	Z46227	111982	gctcactcgatcaatgagctcagcc	W12879
26775	ctgctgtcctaccaaacctccatgg	L21027	69379	taagactccgttacgatggctgtta	Z46227	111983	tcactcgatcaatgagctcagccag	W12879
26776	tcctaccaaacctccatggtgtctg	L21027	69380	tccgttacgatggctgttaggtact	Z46227	111984	cactcgatcaatgagctcagccagg	W12879
26777	caaacctccatggtgtctgacggag	L21027	69381	tatggtcacctggtgacctttgtac	Z46227	111985	gatcaatgagctcagccaggtaccg	W12879
26778	tccatggtgtctgacggagagccct	L21027	69382	gtgacctttgtacgtgagccataac	Z46227	111986	atcaatgagctcagccaggtaccgc	W12879
26779	tggcatgtcatgggcctgtcctccc	L21027	69383	cgctaagcctaaggctgccaaggcc	Z46227	111987	tcaatgagctcagccaggtaccgcc	W12879
26780	tgaccctggggttcagcactctcag	L21027	69384	cataactgcacacattcatttccct	Z46227	111988	tacagacaccaaagccttcattctc	W12882
26781	gccccacaggctcttctgaagaaac	L21027	69385	ttgcttgcgacagcaacaaagcccc	Z46227	111989	caccaaagccttcattctctactca	W12882
26782	aaccagggcatctgcctgaactaat	L21027	69386	gcgacagcaacaaagccccaaaggc	Z46227	111990	tggtctgttcatctgttgcagctca	W12882
26783	ggcatctgcctgaactaatacctag	L21027	69387	ctcttttcagagccacctagagagc	Z46227	111991	ccttgatgccctcttcatggattta	W12882
26784	gtccagggcaccacaccaatgctgc	L21027	69388	tcagagccacctagagagctctgtg	Z46227	111992	tgtatcctttcaaccttggctcata	W12882
26785	acaccaatgctgcagatgctcaacg	L21027	69389	ccacctagagagctctgtgaatgta	Z46227	111993	accttggctcatacctgtattatgt	W12882
26786	atgctgcagatgctcaacggagctg	L21027	69390	agctgtacacacttatgctttccat	Z46227	111994	gctcatacctgtattatgtttgcac	W12882
26787	ctcaacggagctgtcttcagaccag	L21027	69391	acacacttatgctttccatggtctg	Z46227	111995	ctcatgctgatgtgacttggttgat	W12882
26788	gtcttcagaccagaggtgccactac	L21027	69392	aagatatcagcaccttggagccgtt	AA105703	111996	atgctgatgtgacttggttgattct	W12882
26789	agaccagaggtgccactacgcaggg	L21027	69393	gatatcagcaccttggagccgttga	AA105703	111997	tgacttggttgattctcgcttacaa	W12882
26790	gggatgctgcccactatgattggcc	L21027	69394	ccccagctgtcctatctggatggct	AA105703	111998	ggttgattctcgcttacaatagatc	W12882
26791	ctgcccactatgattggcctcctgg	L21027	69395	ccagctgtcctatctggatggctat	AA105703	111999	ttctcgcttacaatagatcaggata	W12882
26792	ctcctgctgggcttcttgtgctgtc	W77249	69396	agctgtcctatctggatggctatga	AA105703	112000	agccttcattctctactcatgaaga	W12882

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26793	cctgctgggcttcttgtgctgtcga	W77249	69397	ctgtcctatctggatggctatgacc	AA105703	112001	cattctctactcatgaagatcgcca	W12882
26794	cattacccatcgagactactgctgg	W77249	69398	tatctggatggctatgaccgagagg	AA105703	112002	tctctactcatgaagatcgccatta	W12882
26795	gtagtcaacattgcagtgggtagct	W77249	69399	ccaggaagcacctgactcagatgtg	AA105703	112003	ctactcatgaagatcgccattacta	W12882
26796	agtcaacattgcagtgggtagctgt	W77249	69400	aggaagcacctgactcagatgtgga	AA105703	112004	attactatcactgtggtctggtctg	W12882
26797	tcaacattgcagtgggtagctgtcg	W77249	69401	gaagcacctgactcagatgtggagg	AA105703	112005	actatcactgtggtctggtctgttc	W12882
26798	gcctcctggtccgcctgtatcggct	W77249	69402	aagcacctgactcagatgtggaggt	AA105703	112006	atcactgtggtctggtctgttcatc	W12882
26799	ctcctggtccgcctgtatcggctgc	W77249	69403	agcacctgactcagatgtggaggtg	AA105703	112007	gtggtctggtctgttcatctgttgc	W12882
26800	gtccgcctgtatcggctgctgtggg	W77249	69404	tatcagcaccttggagccgttgaaa	AA105703	112008	ataggcctcagtaagttcagggaag	D82019
26801	ccgcctgtatcggctgctgtgggtc	W77249	69405	tcagcaccttggagccgttgaaaag	AA105703	112009	ggcctcagtaagttcagggaaggtg	D82019
26802	gggtcctgcaacgacaacctctgtc	W77249	69406	tctgaaaagcctggatctgtttggc	AA105703	112010	tccagtatcccatcctgtcccgatt	D82019
26803	gtcctgcaacgacaacctctgtctc	W77249	69407	gcctggatctgtttggctgtgaggt	AA105703	112011	gtttctatgcagacaatccattcct	D82019
26804	tgtgctgtcgagctgggattgattg	W77249	69408	ctgtttggctgtgaggtcactaacc	AA105703	112012	tctatgcagacaatccattccttag	D82019
26805	tgcaacgacaacctctgtctcaaga	W77249	69409	tcactaaccggagtgattaccgaga	AA105703	112013	atgcagacaatccattccttagggg	D82019
26806	tgctgtcgagctgggattgattgcc	W77249	69410	ttaccgagaaactgtcttcaggctc	AA105703	112014	tcccttctgaagtgttgtcactaca	D82019
26807	tagcggtctaggatgtcttgtagca	W77249	69411	accgagaaactgtcttcaggctcct	AA105703	112015	tgttgtcactacagccctgtggagt	D82019
26808	tgtagcacgccattacccatcgaga	W77249	69412	ggtagccaacggttgtggagcatca	W15568	112016	gaaggccagtgcatgctctgactta	D82019
26809	tagcacgccattacccatcgagact	W77249	69413	tggagcatcatgcccaagttttatc	W15568	112017	ggccagtgcatgctctgacttactg	D82019
26810	gcacgccattacccatcgagactac	W77249	69414	acccacgattctccatctgtgagga	W15568	112018	cagtgcatgctctgacttactgttg	D82019
26811	acgccattacccatcgagactactg	W77249	69415	aggaagacacactgcagtggtcgga	W15568	112019	tgcatgctctgacttactgttggag	D82019
26812	gccattacccatcgagactactgct	W77249	69416	aagacacactgcagtggtcggaaaac	W15568	112020	taatggccagatttcagtggggttg	D82019
26813	ttaagtcctccatgcctggttccat	U02278	69417	acacactgcagtggtcggaaacaca	W15568	112021	ccagatttcagtggggttgaggcca	D82019
26814	gttccatctgtctgccaacaaccct	U02278	69418	gagcaggcccagagcctgattgaca	W15568	112022	ttcagtggggttgaggccagccctg	D82019
26815	tatcagcaagcaatcaacttacctt	U02278	69419	gcccagagcctgattgacaagacaa	W15568	112023	gccagccctgtgcctgttaagagta	D82019
26816	caagcaatcaacttaccttgcatct	U02278	69420	gacaagacaacggctgcatttcaac	W15568	112024	agccctgtgcctgttaagagtaatg	D82019
26817	ttaccttgcatctctgtgggtaatt	U02278	69421	aagacaacggctgcatttcaacaag	W15568	112025	tgttttgtatccccaggaagggcag	D82019
26818	tgcatctctgtgggtaatttcccca	U02278	69422	acaacggctgcatttcaacaaggga	W15568	112026	tttgtatccccaggaagggcagtgg	D82019
26819	gttctccctttcagtctccctgtga	U02278	69423	acggctgcatttcaacaagggaaga	W15568	112027	tccccaggaagggcagtggaactca	D82019
26820	tcctacttccctgaagcttcaactc	U02278	69424	agcatcatgcccaagttttatcttg	W15568	112028	tgctcctgataggaacctttgtggc	D13208
26821	catctgttaggcttcttactatatc	U02278	69425	atgcccaagttttatcttgactact	W15568	112029	ttcagccaactctgacccagcctga	D13208
26822	ttaggcttcttactatatctatcat	U02278	69426	aagttttatcttgactactgtgata	W15568	112030	tctactattacgcagaagaggaaca	D13208
26823	ctatatctatcatttactatggccc	U02278	69427	ttttatcttgactactgtgatacgt	W15568	112031	aggaacactatcggcccgctgacat	D13208
26824	ctatcatttactatggccctacggt	U02278	69428	cttgactactgtgatacgtatctta	W15568	112032	ctaccgtggatgcagcccacaacgc	D13208
26825	tctgtctgccaacaacccttggaaa	U02278	69429	acgtatcttacccacgattctccat	W15568	112033	acaacgcctgtatcctcaccatcag	D13208
26826	ccagggttccagcactaccaagtgg	U02278	69430	tatcttacccacgattctccatctg	W15568	112034	atgatgccgattacttcttgttccat	D13208
26827	ttccagcactaccaagtgggaattt	U02278	69431	cttacccacgattctccatctgtga	W15568	112035	ccgattacttctgttccatcgccca	D13208
26828	agccaagacaggcaagcagggcaga	U02278	69432	ggcctcttctgtagcgtctttacca	X96618	112036	ttgaacatcttctgtctcctaggtc	D13208
26829	agaagcacattcaacacttaatggc	U02278	69433	agcgtctttaccatcagcatgtacc	X96618	112037	gctttctttccttcctctgtgaaat	D13208
26830	acattcaacacttaatggcttggct	U02278	69434	cttttctgcaagtaccctccagagc	X96618	112038	tttccttcctctgtgaaatgagtta	D13208
26831	aacacttaatggcttggctatcagc	U02278	69435	tgcaagtaccctccagagcaagaca	X96618	112039	aaccactgtcctgagaactgtgaga	D13208
26832	cttggctatcagcaagcaatcaact	U02278	69436	cagagctcctgtttctgctggtcct	X96618	112040	caactctgacccagcctgacgcgtt	D13208
26833	cattaagcccttgtgtagagcagaa	Z32767	69437	tggtccttgtgaccagttccatgga	X96618	112041	agcctgacgcgttctcagtcttccc	D13208
26834	agcagaaccagcccaaacttctgcc	Z32767	69438	ttgtgaccagttccatggatgcaat	X96618	112042	acgcgttctcagtcttcccaggcca	D13208
26835	gaaactaaatccatcctgagactca	Z32767	69439	gaccaaagatctttccttagatcag	X96618	112043	aagacgctcatctcagctgcaccat	D13208
26836	aaatccatcctgagactcaagatgt	Z32767	69440	agatctttccttagatcagatagga	X96618	112044	ctcatctcagctgcaccatcaattc	D13208
26837	aaattgttccaccttggctcatgct	Z32767	69441	aaatcacatttttacaggagatcat	X96618	112045	atgccaccgctggagatattggggt	D13208
26838	cttggctcatgctgaactctttaga	Z32767	69442	agatcatcttttctcatttcggagg	X96618	112046	tgtcgtggtaccagcagcagccagg	D13208
26839	ttactcactcctaagctgattctag	Z32767	69443	tcttttctcatttcggaggctgagg	X96618	112047	ggtaccagcagcagccaggaagtgc	D13208
26840	aagctgattctaggaccttgcaggc	Z32767	69444	ccactggctgatttggccaagatcg	X96618	112048	ggcagatcctgcctggggatccttt	M76131
26841	tgcaggctgcctttcatttaacgat	Z32767	69445	gttcagactaaatcaacccagcgcc	X96618	112049	tagctgagacgcgcaaccacaacgg	M76131
26842	ctgcctttcatttaacgatgttgcc	Z32767	69446	tttcgcctccgagacccatacatcg	X96618	112050	ctgacatcactcagcactcacttgc	M76131
26843	agccccagcatgactgttacctaca	Z32767	69447	ctccgagacccatacatcgcggtgc	X96618	112051	agcactcacttgctaccaatctatt	M76131
26844	agcatgactgttacctacattaaat	Z32767	69448	tacatcgcggtgcccaaccttccag	X96618	112052	tctctgcaggctggactggcaggct	M76131
26845	ttctgccactcgaaccttcaacaac	Z32767	69449	cttccaggaatcctcaccagcttaa	X96618	112053	gggacacggctcttaacattttcag	M76131
26846	caacaaccaggacagcgtcccacat	Z32767	69450	ggaatcctcaccagcttaatccgcc	X96618	112054	aacgcgcagatgtccaaaagtctaa	M76131
26847	ccaggacagcgtcccacatatccat	Z32767	69451	atccgcctcgggcttttctgcaagt	X96618	112055	tgcattcagaggtttttggggtcca	M76131
26848	cagcgtcccacatatccattgccat	Z32767	69452	ctggctttgtgcaccgggcagcaga	AA066773	112056	aagtgcctccaggaagcagcagcct	M76131
26849	tatccattgccatcagaaaccacaa	Z32767	69453	ttgtgcaccgggcagcagacactgc	AA066773	112057	ctccaggaagcagcagcctgcctta	M76131
26850	ttgccatcagaaaccacaagaaaag	Z32767	69454	gcttggctgcaccatggagttcagc	AA066773	112058	gaagcagcagcctgccttagacttg	M76131
26851	acctgggcacctgcagacctgcaac	Z32767	69455	ggctcacttctggaagcccaaaggg	AA066773	112059	tgccttagacttgcagcccgctgtg	M76131
26852	gcagacctgcaacaccaaccagcat	Z32767	69456	tcacttctggaagcccaaaggggtg	AA066773	112060	gcaaccacaacggcctgaaagaggg	M76131
26853	tatgtttatgcctgacagcatgttt	U70622	69457	gatcatcgccatagtggcccagtac	AA066773	112061	gccttagacttgcagcccgctgtgg	M76131
26854	gcctgacagcatgtttgtgatcgaa	U70622	69458	catcgccatagtggcccagtacggt	AA066773	112062	cagcgctggacaacttcctggacaa	M76131
26855	gcgttgtccctgcatagtgaagata	U70622	69459	catagtggcccagtacggtatcatg	AA066773	112063	acttcctggacaaactgtaggcagc	M76131
26856	ttgtccctgcatagtgaagataccc	U70622	69460	ggcccagtacggtatcatgcccctc	AA066773	112064	aggcagcctgatactgccacatgct	M76131
26857	agtgaagatacccacgtgcgttctc	U70622	69461	gtacggtatcatgcccctcagtgct	AA066773	112065	cctgatactgccacatgctgcacag	M76131
26858	gatacccacgtgcgttctcagtgcc	U70622	69462	tttccttctgggcaaggtctttcat	AA066773	112066	acccatcagaagacaccttgagact	M76131
26859	acccacgtgcgttctcagtgccaga	U70622	69463	ccttctgggcaaggtctttcatctg	AA066773	112067	cagaagacaccttgagactgtccaa	M76131
26860	cacgtgcgttctcagtgccagaccc	U70622	69464	cagcagacactgcgctcaggtcatt	AA066773	112068	agtgctcctctagaggctgctgggg	M76131

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26861	gtgcgttctcagtgccagaccctca	U70622	69465	caaggtctttcatctgaccagcatt	AA066773	112069	ccagggaccaggccctgaaagctct	AA118127
26862	cgttctcagtgccagaccctcagtg	U70622	69466	acactgcgctcaggtcattctggta	AA066773	112070	accaggccctgaaagctctgcgggc	AA118127
26863	tctcagtgccagaccctcagtggga	U70622	69467	cgctcaggtcattctggtagttatg	AA066773	112071	ccgagtctgtgccagtgggacctaa	AA118127
26864	tgccagaccctcagtgggacttgtt	U70622	69468	agttatgttgctgctcatcatgctc	AA066773	112072	ctgtgccagtgggacctaaagtccg	AA118127
26865	gtattcagtatgcctttctttaaag	U70622	69469	gttgctgctcatcatgctctcgctt	AA066773	112073	gaaagtatcagctctttgccttcat	AA118127
26866	ttcagtatgcctttctttaaagata	U70622	69470	gctcatcatgctctcgcttggctgc	AA066773	112074	atcagctctttgccttcattagtca	AA118127
26867	atgtgagcttgtcacccaaagagtg	U70622	69471	catcatgctctcgcttggctgcacc	AA066773	112075	tctttgccttcattagtcacatggg	AA118127
26868	gcttgtcacccaaagagtgtgtgct	U70622	69472	catgctctcgcttggctgcaccatg	AA066773	112076	ccttcattagtcacatgggcacatc	AA118127
26869	tgtcacccaaagagtgtgtgctctc	U70622	69473	agagttccaggtttctgatgaacag	AA066782	112077	ttagtcacatgggcacatctactat	AA118127
26870	gtgtgctctccaaacgctggaggag	U70622	69474	atgaacagtatcctgatccacggat	AA066782	112078	gcacatctactatgtgtggtcacta	AA118127
26871	tgctctccaaacgctggaggagatg	U70622	69475	tctggaaacgcgcagacttgagcgg	AA066782	112079	tgtgtggtcactatgtctgccatat	AA118127
26872	tctccaaacgctggaggagatgaag	U70622	69476	tggaaacgcgcagacttgagcggtc	AA066782	112080	gtcactatgtctgccatatcaagaa	AA118127
26873	cctcagcaacggcaccgtgcagatt	L06144	69477	aaacgcgcagacttgagcggtccaa	AA066782	112081	aagctctgcgggccacgaacaatag	AA118127
26874	cagcaacggcaccgtgcagattaac	L06144	69478	aacgcgcagacttgagcggtccaaa	AA066782	112082	actggatcttcagccacattgatga	AA118127
26875	ggtgacctacatcaacgagaagagg	L06144	69479	cagacttgagcggtccaaagatacc	AA066782	112083	tcttcagccacattgatgacctgga	AA118127
26876	ctacatcaacgagaagagggacttc	L06144	69480	gacttgagcggtccaaagataccca	AA066782	112084	ttgatgacctggacgcagaagctgc	AA118127
26877	gtatggctgctgcaaggagctggcc	L06144	69481	agcggtccaaagatacccaggatag	AA066782	112085	aagctgctatggacatctcagaggg	AA118127
26878	ctgctgcaaggagctggccagccgc	L06144	69482	gcggtccaaagatacccaggatagt	AA066782	112086	ctatggacatctcagagggacgctc	AA118127
26879	ccgcaccatggtagacaagctgctg	L06144	69483	ggtccaaagatacccaggatagtgc	AA066782	112087	gacgctcagcggctgagtccatctc	AA118127
26880	ctgctagctctgagcctgcactgta	L06144	69484	gtccaaagatacccaggatagtgcc	AA066782	112088	ctgagtccatctccgagtctgtgcc	AA118127
26881	ctagctctgagcctgcactgtaggc	L06144	69485	tgaacagtatcctgatccacggatg	AA066782	112089	ctgcgacttttgcttcttgctttaa	J00380
26882	cgctcagcccactgtatgaattgta	L06144	69486	aacagtatcctgatccacggatgag	AA066782	112090	cttcttgctttaagcagttccactg	J00380
26883	tcagcccactgtatgaattgtataa	L06144	69487	acagtatcctgatccacggatgagg	AA066782	112091	aacactataacttttgctatgatat	J00380
26884	ggactgctctttccttagctttata	L06144	69488	agtatcctgatccacggatgaggac	AA066782	112092	atgatatactgccaagtgtggccca	J00380
26885	ccaggaccacaccaaacttatcctg	L06144	69489	gtatcctgatccacggatgaggacc	AA066782	112093	tactgccaagtgtggcccatgctca	J00380
26886	ggaccacaccaaacttatcctgtgc	L06144	69490	tcctgatccacggatgaggacctca	AA066782	112094	caagtgtggcccatgctcataattg	J00380
26887	caaacttatcctgtgccccctgatg	L06144	69491	tgatccacggatgaggacctcacct	AA066782	112095	tggcccatgctcataattgtgcctt	J00380
26888	acttatcctgtgccccctgatggca	L06144	69492	ccctctgatcaggagaagagacgaa	AA066782	112096	ataattgtgccttctgaattgtgat	J00380
26889	gtgccccctgatggcagcggtgacc	L06144	69493	ggccttgcacaaacacagaacaatc	D26046	112097	gtgccttctgaattgtgataaatta	J00380
26890	ccccctgatggcagcggtgacctac	L06144	69494	acacagaacaatcacgagagcagca	D26046	112098	ttcccagtgaaaacgctcaattctg	J00380
26891	cctgatggcagcggtgacctacatc	L06144	69495	ggttcagccctcgatgccaacagac	D26046	112099	gtgaaaacgctcaattctgctgttt	J00380
26892	agcggtgacctacatcaacgagaag	L06144	69496	cgactattcggaggagtctgacacg	D26046	112100	aattctgctgtttccatagaatttt	J00380
26893	gaaagccatgctggccaagtttgcc	D14849	69497	tgacacggatctcagccaaaagtcc	D26046	112101	agcagttccactgaagatactcaaa	J00380
26894	gtttgccgaagatgaccgcattgag	D14849	69498	ctgccccaaggacagtggtctgacc	D26046	112102	ataagctgtgtcttcttcactggac	J00380
26895	actcctcaaagaacatgctgcaaag	D14849	69499	cagtggtctgaccagtgtaggaacg	D26046	112103	tttccttttgcctcagaaggagtgg	J00380
26896	cgatgttgacatgcttggtgaagag	D14849	69500	tctgaccagtgtaggaacggacacc	D26046	112104	agcaggtgaccccatgctctgtcaa	J00380
26897	catagcaagaccgggcgagacctgg	D14849	69501	ggacaccttcagattgtaagctttg	D26046	112105	catgctctgtcaacccctgaataaa	J00380
26898	aagaccgggcgagacctggagtgct	D14849	69502	tttcaaaactagactaactgcaatt	D26046	112106	ctgtcaacccctgaataaatgatgt	J00380
26899	tcagatgctgccactagatgtcagc	D14849	69503	aactagactaactgcaattccaaag	D26046	112107	aagtcttagctcactctcaggaacg	J00380
26900	gctgccactagatgtcagcgtaact	D14849	69504	tgcaattccaaagcttctaaccaaa	D26046	112108	tagctcactctcaggaacgcttgga	J00380
26901	tgtcagcgtaactgctgttttacag	D14849	69505	tttattacctcactctgcctgcttc	D26046	112109	ggattgttggctctgatgtgtccaa	W12919
26902	tgctgttttacagttggtgacagta	D14849	69506	ccacgcctccaggaagtcttggccg	D26046	112110	attgttggctctgatgtgtccaagc	W12919
26903	tggtctatctgcatgttctaaaaca	D14849	69507	ctccaggaagtcttggccgccagtg	D26046	112111	gcaaacattccactgcccctgggga	W12919
26904	ctatttcatcatgtatacagtttga	D14849	69508	tctctcctcatcttcaacggttacc	D26046	112112	tccactgcccctggggactgtgacc	W12919
26905	tgaccgcattgagctcatgaatgcc	D14849	69509	ttcaacggttacctcaagttcatgc	D26046	112113	cactgcccctggggactgtgaccat	W12919
26906	actcattgaagaacgccggagccag	D14849	69510	ggttacctcaagttcatgcagcacc	D26046	112114	actgtgaccatcctctgcattgact	W12919
26907	tgaagaacgccggagccagttcctc	D14849	69511	ctcaagttcatgcagcacctcaggg	D26046	112115	tgtgaccatcctctgcattgacttg	W12919
26908	gagccagttcctcgcagacaaacaa	D14849	69512	ttcatgcagcacctcaggggttcag	D26046	112116	accatcctctgcattgacttgggca	W12919
26909	gttcctcgcagacaaacaacgtgag	D14849	69513	ttcaatgccacacttctcgagtccg	AA066808	112117	gggcactgacatggttcctgccatc	W12919
26910	caaacaacgtgagctggaggaattg	D14849	69514	caatgccacacttctcgagtccgat	AA066808	112118	actgacatggttcctgccatctccc	W12919
26911	gcaactacagcaaaggcggcagggc	D14849	69515	ccatcctgtccatccagaacgatgt	AA066808	112119	tgacatggttcctgccatctccctg	W12919
26912	acagcaaaggcggcagggctgcatc	D14849	69516	tcctgtccatccagaacgatgtgga	AA066808	112120	ctccctggcctacgagcaagctgag	W12919
26913	gaaagaagcgccgactcatgactct	W97190	69517	cctgtccatccagaacgatgtggag	AA066808	112121	ctctgatgtgtccaagcaagctgct	W12919
26914	agaagcgccgactcatgactctgtc	W97190	69518	tgtccatccagaacgatgtggagaa	AA066808	112122	tgtgtccaagcaagctgctgacatg	W12919
26915	cgctggccttgcgactccaccggag	W97190	69519	cactgtcaccattgatgatctgcga	AA066808	112123	caagcaagctgctgacatgatcctt	W12919
26916	gactccaccggagtctgcagcctgt	W97190	69520	actgtcaccattgatgatctgcgaa	AA066808	112124	caagctgctgacatgatccttctgg	W12919
26917	actccaccggagtctgcagcctgtc	W97190	69521	tgtcaccattgatgatctgcgaaca	AA066808	112125	gaagaaatccatcgcttacacccta	W12919
26918	accggagtctgcagcctgtccctcg	W97190	69522	gtcaccattgatgatctgcgaacaa	AA066808	112126	attattgcaaacattccactgcccc	W12919
26919	gagtctgcagcctgtccctcgttat	W97190	69523	tcaccattgatgatctgcgaacaag	AA066808	112127	tattgcaaacattccactgcccctg	W12919
26920	agtctgcagcctgtccctcgttatg	W97190	69524	tgatgatctgcgaacaagtggtaca	AA066808	112128	ttgcaaacattccactgcccctggg	W12919
26921	tctgcagcctgtccctcgttatgcg	W97190	69525	aatgccacacttctcgagtccgatg	AA066808	112129	tccttgcccatgatgcatcagagca	W12894
26922	ctgcagcctgtccctcgttatgcgc	W97190	69526	atgccacacttctcgagtccgatgg	AA066808	112130	tggtagcattgcgctcatatccgcc	W12894
26923	tgcagcctgtccctcgttatgcgca	W97190	69527	cacacttctcgagtccgatggggat	AA066808	112131	agtcagcctagtgattgctatctac	W12894
26924	gcagcctgtccctcgttatgcgcac	W97190	69528	tctcgagtccgatggggatcggcag	AA066808	112132	gcaagtttgctctggatgtgtccca	W12894
26925	gaagcgccgactcatgactctgtcg	W97190	69529	ctcgagtccgatggggatcggcagt	AA066808	112133	aagtttgctctggatgtgtcccatt	W12894
26926	aagcgccgactcatgactctgtcgg	W97190	69530	tcgagtccgatggggatcggcagtc	AA066808	112134	gtttgctctggatgtgtcccattcg	W12894
26927	agcgccgactcatgactctgtcggt	W97190	69531	gtccatcctgtccatccagaacgat	AA066808	112135	ttgctctggatgtgtcccattcgaa	W12894
26928	gcgccgactcatgactctgtcggta	W97190	69532	tccatcctgtccatccagaacgatg	AA066808	112136	tctggatgtgtcccattcgaacata	W12894

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
26929	cgccgactcatgactctgtcggtat	W97190	69533	atgctttctaaggcctcttatgcag	D49744	112137	gatgtgtcccattcgaacataagaa	W12894
26930	gccgactcatgactctgtcggtatg	W97190	69534	gcctcttatgcaggagcgtagagtg	D49744	112138	tgtgtcccattcgaacataagaaca	W12894
26931	ctctcgcatgcagcacgctggcctt	W97190	69535	acatttagtccagtcctgtagaatc	D49744	112139	tgtcccattcgaacataagaacaga	W12894
26932	catgcagcacgctggccttgcgact	W97190	69536	agtccagtcctgtagaatccgctcc	D49744	112140	tcccattcgaacataagaacagatc	W12894
26933	atgaattgttcttcacattttcagt	D17569	69537	ccgctcctcctgaaagatgtgtatg	D49744	112141	agcattgcgctcatatccgccttga	W12894
26934	tgttcttcacattttcagttgcatc	D17569	69538	ctgtgcgctgggagtgacgattgat	D49744	112142	cattgcgctcatatccgccttgact	W12894
26935	agcatcccaagtgcccagagtgctg	D17569	69539	gtaacctgaatctcggtgcattatg	D49744	112143	ttgcgctcatatccgccttgactgg	W12894
26936	gcccagagtgctgtgtggtctgcag	D17569	69540	tgaatctcggtgcattatgcggcaa	D49744	112144	gcgctcatatccgccttgactggga	W12894
26937	tctgcagccctggatccttcaatcc	D17569	69541	cattatgcggcaactgcgcctgttg	D49744	112145	gctcatatccgccttgactgggaaa	W12894
26938	tcaatccccgggatggaactcattg	D17569	69542	actgcgcctgttggttagagctgct	D49744	112146	atccgccttgactgggaaaatgagt	W12894
26939	atggaactcattgcctccagtgcaa	D17569	69543	agctgctgtgcgcactcacaggatc	D49744	112147	ccgccttgactgggaaaatgagtca	W12894
26940	acaacagcctggtgtatggagcgaa	D17569	69544	atcactgtaaccaactaatgccaaa	D49744	112148	tgagtcagcctagtgattgctatct	W12894
26941	agacatgcatgtaggccagggcctt	D17569	69545	catctcttgcctgtgcgctaaagct	D49744	112149	ctggttaccacggacacaggtgtca	U39192
26942	tgtgggacccagcagctcattcaac	D17569	69546	ttgcctgtgcgctaaagctgtccag	D49744	112150	atgggctgactctaccagtggagaa	U39192
26943	acccagcagctcattcaacataaaa	D17569	69547	gtatgactcctgtgtgctgacgctg	D49744	112151	tggctagctcccactgaggaggacc	U39192
26944	cagctcattcaacataaaagtatat	D17569	69548	tgtgctgacgctgttcagacgagct	D49744	112152	gctcccactgaggaggacctgagct	U39192
26945	tcacattttcagttgcatctataga	D17569	69549	acgagctctaagaatccattttcta	D49744	112153	aaccttcagaggctacttctgagac	U39192
26946	taataactcactattatgccaaaat	D17569	69550	tctaagaatccattttctaaagcaa	D49744	112154	ttcgttacacgttctacatagagga	U39192
26947	agccatgtacagaccatagttgtga	D17569	69551	aatccattttctaaagcaaagtcat	D49744	112155	atttcaccagcagccatgaaaacgt	U39192
26948	gattcttcattcagcaagtagaagt	D17569	69552	ttcccaacatttagtccagtcctgt	D49744	112156	tcttcattcatttccagttgctacc	U39192
26949	agccactgcctgagatatactacat	D17569	69553	taaccttggcactggcagtctagat	AA066700	112157	ttcatttccagttgctaccctgact	U39192
26950	accgctgctttccagggtatggcat	D17569	69554	aaccttggcactggcagtctagatc	AA066700	112158	tgggcctcctgtaattgctctgtta	U39192
26951	gctttccagggtatggcataaatgt	D17569	69555	caagtgtctgttctcctgaactgga	AA066700	112159	tcctgtaattgctctgttaaaagaa	U39192
26952	taaatgtcctgaagcatcccaagtg	D17569	69556	gtgtctgttctcctgaactggagac	AA066700	112160	aacagaccatgcccgctgggatccg	U39192
26953	tcctgaagcatcccaagtgcccaga	D17569	69557	aagacccgaggatctatgcatctgg	AA066700	112161	tgactctaccagtggagaatcccct	U39192
26954	attttaatcaatctcacagctatta	J03458	69558	agacccgaggatctatgcatctgga	AA066700	112162	cgctgggatccggatcagaagaaag	U39192
26955	tgcttaaatgcatctccaggtatat	J03458	69559	tctatgcatctggactgtgctaaat	AA066700	112163	tggagaatcccctatacacatatga	U39192
26956	aataggactgacttctccatgtgtt	J03458	69560	ctatgcatctggactgtgctaaata	AA066700	112164	atcccctatacacatatgaccacac	U39192
26957	actgacttctccatgtgttcccctt	J03458	69561	atgcatctggactgtgctaaatagg	AA066700	112165	catatgaccacactacagtcttggc	U39192
26958	ttctccatgtgttcccctggactt	J03458	69562	tgcatctggactgtgctaaatagggg	AA066700	112166	tcttggctgtggtggctgtagtact	U39192
26959	tcccctggactttctaggatctgc	J03458	69563	catctggactgtgctaaatagggaa	AA066700	112167	gtcttcttgtcatcgtgggacttct	U39192
26960	ttctaggatctgccctttcttcagc	J03458	69564	atctggactgtgctaaatagggaat	AA066700	112168	ttgtcatcgtgggacttctcatgtt	U39192
26961	cccttcttcagcaatcagtgcaat	J03458	69565	ggcactggcagtctagatcagcaca	AA066700	112169	gacttctcatgtttaggtaccacag	U39192
26962	cttcagcaatcagtgcaatcacatt	J03458	69566	agggaatccaacgactagcttcaag	AA066700	112170	gcaccctgcagcatgaagatcgcag	W12899
26963	caatcagtgcaatcacattggacat	J03458	69567	cactggcagtctagatcagcacatt	AA066700	112171	accctgcagcatgaagatcgcagtc	W12899
26964	tggacataccaaattcaacacagta	J03458	69568	ctcgattcaccaagtgtctgttctc	AA066700	112172	aacgcgactactctctctgaatcgt	W12899
26965	taccaaattcaacacagtaaactgt	J03458	69569	gattcaccaagtgtctgttctcctg	AA066700	112173	cgcgactactctctctgaatcgttg	W12899
26966	aatgcatctccaggtatatcgtttc	J03458	69570	attcaccaagtgtctgttctcctga	AA066700	112174	cgactactctctctgaatcgttggc	W12899
26967	attttcagcatttaatcagaatttc	J03458	69571	tcaccaagtgtctgttctcctgaac	AA066700	112175	actactctctctgaatcgttggctc	W12899
26968	gttatattctattccactgaaaact	J03458	69572	caccaagtgtctgttctcctgaact	AA066700	112176	ctctgaatcgttggctccatccggg	W12899
26969	ttctattccactgaaaactagacat	J03458	69573	ccaagtgtctgttctcctgaactgg	AA066700	112177	ctgaatcgttggctccatccgggct	W12899
26970	tagacattaatttcaccaaaatgtt	J03458	69574	tgtgctcacacagctggtggcacct	U76416	112178	gaatcgttggctccatccgggcttc	W12899
26971	ttgcaattctgttcctgcaatagga	J03458	69575	cacacagctggtggcacctggatgg	U76416	112179	gatcagcacgcagtagtacgacgat	W12899
26972	ttctgttcctgcaataggactgact	J03458	69576	ttctagcaaactgtagtgcacccag	U76416	112180	tcagcacgcagtagtacgacgatgc	W12899
26973	tcctgcaataggactgacttctcca	J03458	69577	gtagtgcacccagctatgaagtgtt	U76416	112181	cagtagtacgacgatgctgggctct	W12899
26974	tctgccaccaatatggggccctggc	D14883	69578	cacccagctatgaagtgttcctcgt	U76416	112182	agatcgcagtcattgcacctccgga	W12899
26975	accaatatggggccctggctatcct	D14883	69579	gctatgaagtgttcctcgtgtccac	U76416	112183	atcgcagtcattgcacctccggaac	W12899
26976	ttttccatgtttctgtgggagacag	D14883	69580	aagtgttcctcgtgtccacagacct	U76416	112184	cgcagtcattgcacctccggaacgc	W12899
26977	gcaattcttccacacacttggagca	D14883	69581	tgtccacagaccttggattaccaga	U76416	112185	cagtcattgcacctccggaacgcga	W12899
26978	ccaagctcagttcagcagggaactg	D14883	69582	atgtggctgcgaccatcctgtgtta	U76416	112186	gtcattgcacctccggaacgcgact	W12899
26979	gtgcgctcctcttggttgagggacc	D14883	69583	caccatgaagcctcaatggcaagga	U76416	112187	cattgcacctccggaacgcgactac	W12899
26980	tcctcttggttgagggacctgacaa	D14883	69584	gaagcctcaatggcaaggagtggtg	U76416	112188	ttgcacctccggaacgcgactactc	W12899
26981	acaagaccctggatgagaggaggat	D14883	69585	caagaatcaaccacttgcatcttac	U76416	112189	ctccggaacgcgactactctctctg	W12899
26982	tctggactggtgtttcttggcagct	D14883	69586	gcacgtttagccggcaggacaagcc	U76416	112190	tttgcccttcaaactggtctcccag	W54288
26983	ctggtgtttcttggcagctgtcccc	D14883	69587	cttgcatcttacaaaattactctta	U76416	112191	tgcccttcaaactggtctcccagaa	W54288
26984	tttcttggcagctgtcccctgtcct	D14883	69588	ttagccggcaggacaagccgggagc	U76416	112192	agcccagtcgctgtgagtacctcat	W54288
26985	ttccatacactcatctctggaatca	D14883	69589	gaacagcttgcagcacaaggcctca	U76416	112193	cagtcgctgtgagtacctcatggag	W54288
26986	ctttcttcctactgcctgggatatt	D14883	69590	gcacaaggcctcacctggggagctt	U76416	112194	gtcgctgtgagtacctcatggagct	W54288
26987	tttaacagctcgaaatggctcccag	D14883	69591	ggcctcacctggggagcttaggact	U76416	112195	cgctgtgagtacctcatggagctga	W54288
26988	agctcgaaatggctcccagtattac	D14883	69592	tgctctcagaatgtcgtatagcgca	U76416	112196	ctgtgagtacctcatggagctgatg	W54288
26989	aaatggctcccagtattactgtaca	D14883	69593	gtcgtatagcgcaacaactgactac	U76416	112197	gagtacctcatggagctgatgacac	W54288
26990	ctcccagtattactgtacacaggat	D14883	69594	tagcgcaacaactgactacatttag	U76416	112198	gtacctcatggagctgatgacacca	W54288
26991	caccctgaagtcatattgtattgta	D14883	69595	ctttctgtgtccacaagagatgctg	U39827	112199	acctcatggagctgatgacaccagc	W54288
26992	tagcacccgtagctgcccagggaaa	D14883	69596	gtgtccacaagagatgctgtagaat	U39827	112200	gctgatgacaccagcagcctgccca	W54288
26993	tcacactttcttcataggttttcca	D14883	69597	ttcagtctgcctgcatcagtcttct	U39827	112201	tgatgacaccagcagcctgcccaga	W54288
26994	aatgttacagcatcacacttatatt	X77557	69598	ctgcctgcatcagtcttctcctctg	U39827	112202	tggtctcccagaaacccaaacatgg	W54288
26995	ttctaatgatccattatatcctaat	X77557	69599	tcctctgtatacgtctgtcttcaac	U39827	112203	cacatggggctcctgggctggccct	W54288
26996	tattatgcatttaacctgtgaactc	X77557	69600	gtatacgtctgtcttcaacaaatgt	U39827	112204	tggccctgatcatgacaagttcagt	W54288

TABLE 1

SEQ ID NO	sequence	DBAxnID
26997	aacctgtgaactcatagttatgaga	X77557
26998	gaggactgccagacctctcgatgtt	X77557
26999	gactgccagacctctcgatgttcta	X77557
27000	tgccagacctctcgatgttctagat	X77557
27001	acctctcgatgttctagatatagac	X77557
27002	tatagacttgatgccctgccttgag	X77557
27003	cttgatgccctgccttgagcattgt	X77557
27004	gatgccctgccttgagcattgtgga	X77557
27005	gccctgccttgagcattgtggagtt	X77557
27006	tgatccattatatcctaattaatgt	X77557
27007	tgatcttaataaccctatttatgat	X77557
27008	ttatgatctgttgtagtctgctgct	X77557
27009	gtatgttctggcttttcctggagta	X77557
27010	tgttctggcttttcctggagtatat	X77557
27011	tctggcttttcctggagtatatctt	X77557
27012	ttttcctggagtatatcttctaaag	X77557
27013	tctagactagcctatgattagccta	X77557
27014	gaaatccagtcagtccgacgccaca	D31842
27015	cgccacaccaacagcgtgctggaag	D31842
27016	ttcctcagggagcagaggatgttca	D31842
27017	atgttcatgatccagaccattgcgc	D31842
27018	atgatccagaccattgcgcagtaca	D31842
27019	cagaccattgcgcagtacaagttcg	D31842
27020	caagtcctcgtccagttcctgcaga	D31842
27021	ctcgtccagttcctgcagaattcca	D31842
27022	aggctcatttgatctcctccgggat	D31842
27023	atttgatctcctccgggatgcagct	D31842
27024	tctcctccgggatgcagcttctgga	D31842
27025	agttactcacaaacatcatgtatta	D31842
27026	accaacagcgtgctggaaggcatca	D31842
27027	ctctctgagctcatgatctactgcc	D31842
27028	gagctcatgatctactgcctggaac	D31842
27029	atgatctactgcctggaacacaacg	D31842
27030	tactgcctggaacacaacgaaaagg	D31842
27031	gtgcccacgatgctgcgattcctca	D31842
27032	acgatgctgcgattcctcagggagc	D31842
27033	ctgcgattcctcagggagcagagga	D31842
27034	agctacatctacgtcaggaggccaa	W77527
27035	gctacatctacgtcaggaggccaac	W77527
27036	ccacttctatacctgactcatgagg	W77527
27037	tatacctgactcatgaggccagcat	W77527
27038	atacctgactcatgaggccagcatt	W77527
27039	acctgactcatgaggccagcattac	W77527
27040	ctgactcatgaggccagcattaccg	W77527
27041	tgactcatgaggccagcattaccgt	W77527
27042	gactcatgaggccagcattaccgtg	W77527
27043	actcatgaggccagcattaccgtgt	W77527
27044	agcattaccgtgtggttgataccga	W77527
27045	cattaccgtgtggttgataccgagt	W77527
27046	ctacatctacgtcaggaggccaaca	W77527
27047	tacatctacgtcaggaggccaacat	W77527
27048	catctacgtcaggaggccaacattc	W77527
27049	atctacgtcaggaggccaacattcg	W77527
27050	tctacgtcaggaggccaacattcgg	W77527
27051	ctacgtcaggaggccaacattcggc	W77527
27052	gcccacttctatacctgactcatga	W77527
27053	cccacttctatacctgactcatgag	W77527
27054	taagacgtgctctgagggaatatca	U40672
27055	gggaatatcagcaccagtcgcccaa	U40672
27056	cttcatgtagttccagatgggactg	U40672
27057	gtagttccagatgggactggaagtc	U40672
27058	gttccagatgggactggaagtcatt	U40672
27059	gtaatttcttgcatatgcaacatct	U40672
27060	atttcttgcatatgcaacatcttaa	U40672
27061	tcttgcatatgcaacatcttaaaag	U40672
27062	tgcatatgcaacatcttaaaagggg	U40672
27063	atagcagcttatacacatatatgaa	U40672
27064	gcagcttatacacatatatgaaaat	U40672

SEQ ID NO:	sequence	DBAxnID
69601	gtctgtcttcaacaaatgtaaggac	U39827
69602	cccgatcacatccattatcaaggat	U39827
69603	cacatccattatcaaggatttgaag	U39827
69604	tttgaagccactccatgtactgggt	U39827
69605	gccactccatgtactgggttataaa	U39827
69606	tgttctcatgaactttcatgaagtt	U39827
69607	attgtatgactcctatgttggcttt	U39827
69608	tgactcctatgttggctttattaag	U39827
69609	taccaattctctttgcctctatgtt	U39827
69610	ttctctttgcctctatgttataacc	U39827
69611	ttgcctctatgttataacccctaag	U39827
69612	agtggccattctatctgactactat	U39827
69613	cattctatctgactactatgacttt	U39827
69614	ctgctttgggttttcagtctgcctg	U39827
69615	taatacacacttttaatggggagact	U59864
69616	cagacatatcatgttctctgtggtg	U59864
69617	gttactttatctttttaagagatcat	U59864
69618	tatacctataatttctacatttcaa	U59864
69619	ttctacatttcaaaattacacatgt	U59864
69620	acatttcaaaattacacatgtgact	U59864
69621	atttcaaaattacacatgtgactta	U59864
69622	attacacatgtgacttacagagtta	U59864
69623	tacacatgtgacttacagagttatt	U59864
69624	tatttttgctacaggtaatattcct	U59864
69625	atcaatcattagttgcccagggaaa	U59864
69626	atttttactgtgtgtatagatgcat	U59864
69627	gacatatcatgttctctgtggtggt	U59864
69628	tcatgttctctgtggtggttttgga	U59864
69629	ctagagaacgctttctcgtgagcca	U59864
69630	agagaacgctttctcgtgagccaaa	U59864
69631	aacgctttctcgtgagccaaatgta	U59864
69632	cgctttctcgtgagccaaatgtaag	U59864
69633	ctttctcgtgagccaaatgtaagat	U59864
69634	ttctcgtgagccaaatgtaagattg	U59864
69635	gtacacgtgtcatggatgtggaaag	AA066879
69636	acagaaatcccatctcacgtcacat	AA066879
69637	aagcctgaccagtcatcagaatatt	AA066879
69638	cctgaccagtcatcagaatattcat	AA066879
69639	gaatattcattactatgtggttaat	AA066879
69640	tattcattactatgtggttaatgct	AA066879
69641	tcattactatgtggttaatgctggc	AA066879
69642	ttgtcattcaaatcttagtcgccat	AA066879
69643	tcattcaaatcttagtcgccatcag	AA066879
69644	ttcaaatcttagtcgccatcagaaa	AA066879
69645	aaatcttagtcgccatcagaaaatc	AA066879
69646	tagtcgccatcagaaaatccatgct	AA066879
69647	atcccatctcacgtcacatcagaaa	AA066879
69648	ccatctcacgtcacatcagaaaatt	AA066879
69649	tctcacgtcacatcagaaaattcac	AA066879
69650	cacgtcacatcagaaaattcacacc	AA066879
69651	gtcacatcagaaaattcacaccgga	AA066879
69652	tgtctgtggagtctgtggaaaagct	AA066879
69653	tcgcggctcaagcctgaccagtcat	AA066879
69654	ctcaagcctgaccagtcatcagaat	AA066879
69655	tcacctctgcatgcacttaactttg	U57746
69656	ctgcatgcacttaactttggcattg	U57746
69657	gatgcagaccctgggtttgtgcatt	U57746
69658	gaccctgggtttgtgcattctgatg	U57746
69659	gggtttgtgcattctgatggcacca	U57746
69660	tctgatggcaccataagtcaccatg	U57746
69661	ggcaccataagtcaccatgacatgt	U57746
69662	tatgattacctacacctgagccgcc	U57746
69663	tacctacacctgagccgcctggggt	U57746
69664	ttgcttcttcgtctcttggcccaag	U57746
69665	gcccaagatcagggccaaggcatcc	U57746
69666	cctctgccagagacagcatcctaag	U57746
69667	gacagcacacagcatgtactctggc	U57746
69668	tattaaatgcttcttcctcaaaa	U57746

SEQ ID NO	sequence	DBAxnID
112205	tgccctgctgtgtggcaaagagact	W54288
112206	ccctgctgtgtggcaaagagactgt	W54288
112207	ccacggagcccagtcgctgtgagta	W54288
112208	acggagcccagtcgctgtgagtacc	W54288
112209	ggagcccagtcgctgtgagtacctc	W54288
112210	ctcgtaaatacaagcagctggacac	M76124
112211	aatacaagcagctggacaccggcat	M76124
112212	atatacctgagtcttgtacataata	M76124
112213	aatcaaattttcctagcatgtgcat	M76124
112214	attttcctagcatgtgcataattaa	M76124
112215	tctaaatgctctggcactgctaact	M76124
112216	tgctctggcactgctaactggtaca	M76124
112217	ggcactgctaactggtacaaacctg	M76124
112218	agggttagcgcttccgaggtagctg	M76124
112219	tatctcgtctgccactgactggcct	M76124
112220	ttgactatccaacaccctatctgaa	M76124
112221	atccaacaccctatctgaaagaaat	M76124
112222	agcagctggacaccggcattaccga	M76124
112223	gccaggtccagtgtggtactcagaa	M76124
112224	ctcagaacttagcctgcaaagttaa	M76124
112225	acttagcctgcaaagttaagagagt	M76124
112226	gcgtcgcaaacattccaacagtaga	M76124
112227	gattaaggctgcccttctatatacc	M76124
112228	ggctgcccttctatatacctgagtc	M76124
112229	ccttctatatacctgagtcttgtac	M76124
112230	ttcctctcagccatgtcctttctct	AA050796
112231	tctcagccatgtcctttctcttttc	AA050796
112232	actctttcctgctgtcagatggatt	AA050796
112233	tctttcctgctgtcagatggatttg	AA050796
112234	tttcctgctgtcagatggatttggt	AA050796
112235	tcctgctgtcagatggatttggttg	AA050796
112236	ctgctgtcagatggatttggttggg	AA050796
112237	taaatttccctggtgcaattggagc	AA050796
112238	aatttccctggtgcaattggagcaa	AA050796
112239	gcaattggagcaaccccaatgtctc	AA050796
112240	ttggagcaaccccaatgtctccctt	AA050796
112241	cccaatgtctcccttccagtgtctt	AA050796
112242	tcttttcctctagaggagttgagct	AA050796
112243	ttttcctctagaggagttgagctgt	AA050796
112244	ttgagctgtctaaactccatctgct	AA050796
112245	tgtctaaactccatctgctgcttcc	AA050796
112246	tctaaactccatctgctgcttccct	AA050796
112247	tctcccactctttcctgctgtcaga	AA050796
112248	tcccactctttcctgctgtcagatg	AA050796
112249	ccactctttcctgctgtcagatgga	AA050796
112250	tgctcgactgtaactctcacatgtg	M22326
112251	actgtaactctcacatgtgacaaag	M22326
112252	gacatgcgcagatgtgagggacacg	M22326
112253	agctgagctttcggtctccagaatg	M22326
112254	aatctgaactctcaaaagtctattt	M22326
112255	tttatacatctattcaggagttgga	M22326
112256	atacatctattcaggagttggagtg	M22326
112257	gttacctactgagtaggctgcagtt	M22326
112258	cacattgaatgcgctctattgccca	M22326
112259	gaatgcgctctattgcccatgggat	M22326
112260	gctctattgcccatgggatatgtgg	M22326
112261	ctattgcccatgggatatgtggtgt	M22326
112262	actctcacatgtgacaaagtatggt	M22326
112263	ttcacgtcttggtgccttttgtgtg	M22326
112264	tgcctttgtgtgacacgccttgcc	M22326
112265	tgtgacacgccttgccgatggcttg	M22326
112266	gacacgccttgccgatggcttgaca	M22326
112267	ccttgccgatggcttgacatgcgca	M22326
112268	cgatggcttgacatgcgcagatgtg	M22326
112269	cttgacatgcgcagatgtgagggac	M22326
112270	taattacactgatgtggctatcttt	M61731
112271	ctcagtcctaggttgagtgatggac	M61731
112272	aagacattttgtctgcagtacgtaa	M61731

TABLE 1

SEQ ID NO	sequence	DBAxnID
27065	tgtctattgttttgcacgaattaat	U40672
27066	atcagcaccagtcgcccaaggactt	U40672
27067	agcaccagtcgcccaaggacttggc	U40672
27068	agtcgcccaaggacttggcttcatg	U40672
27069	cgcccaaggacttggcttcatgtag	U40672
27070	ccaaggacttggcttcatgtagttc	U40672
27071	aggacttggcttcatgtagttccag	U40672
27072	acttggcttcatgtagttccagatg	U40672
27073	tggcttcatgtagttccagatggga	U40672
27074	gaaccatgtcaagcggatagcagct	X76295
27075	cagatacaactccgtgaggcaaagg	X76295
27076	ttacttcaacatgtaccttatactc	X76295
27077	caacatgtaccttatactcatcatg	X76295
27078	gtaccttatactcatcatgtgcaac	X76295
27079	cgtctgttgtcacggattccggcga	X76295
27080	ctctcgtctctcagtcaattaggtt	X76295
27081	tctctcagtcaattaggttcagcca	X76295
27082	aggctgctaaggctctcagatgtat	X76295
27083	ctaaggctctcagatgtattgttcc	X76295
27084	acatgtgaattgtctccgtggtgga	X76295
27085	gaattgtctccgtggtggaaatggt	X76295
27086	caactccgtgaggcaaaggaccagc	X76295
27087	gattttcattgtctgctggtctccc	X76295
27088	cattgtctgctggtctcccttcttt	X76295
27089	tcttcaccttatcttaatgatctcc	X76295
27090	ccttatcttaatgatctcctgccct	X76295
27091	cttaatgatctcctgccctcagaac	X76295
27092	tcagaacgtctactgctcttgcttt	X76295
27093	tatgtcttacttcaacatgtacctt	X76295
27094	tatatcttcacttgaacccaagtca	U33958
27095	acttgaacccaagtcattttgatat	U33958
27096	ttggtcatgtgctgtaccatctgcc	U33958
27097	atgtgctgtaccatctgccacaaga	U33958
27098	tgtaccatctgccacaagatatttt	U33958
27099	ttccacggaagacactagtcagtac	U33958
27100	tagtcagtactccttagttttctct	U33958
27101	ctctacccacagcgtttgatgtatt	U33958
27102	tacccacagcgtttgatgtattatt	U33958
27103	tgcaggcctcagtaatttgggatta	U33958
27104	attcttctaccaaagattgattaca	U33958
27105	cttctaccaaagattgattacaagc	U33958
27106	tgaacccaagtcattttgatattat	U33958
27107	ctggcaaaagccttctatttatgac	U33958
27108	gcaaaagccttctatttatgacaac	U33958
27109	aaagccttctatttatgacaacact	U33958
27110	ttctatttatgacaacacttggtca	U33958
27111	tatttatgacaacacttggtcatgt	U33958
27112	ttatgacaacacttggtcatgtgct	U33958
27113	cacttggtcatgtgctgtaccatct	U33958
27114	gccttcactcttctgcacgctatgg	D31967
27115	actcttctgcacgctatggcagcca	D31967
27116	agtcttgccgtgggctgaagctgat	D31967
27117	agctgatgtaccgctacgatgagga	D31967
27118	tcatcagtttggtcaaccagatatg	D31967
27119	aagtgtctggcaaacacggtggcat	D31967
27120	tcgagaactgtctcaacaaacccac	D31967
27121	tcccatcctcatgaagatgccgaac	D31967
27122	gaagatgccgaacccatggtcactt	D31967
27123	gccgaacccatggtcacttatatat	D31967
27124	aagctgtctttgcactagctctaaa	D31967
27125	tctttgcactagctctaaagaagaa	D31967
27126	acgacggcaacagcacagtggcgga	D31967
27127	gcaacagcacagtggcggatgggaa	D31967
27128	agcctcgaaagtggctacagctgga	D31967
27129	gccagatctgccagcacttgtgcta	D31967
27130	agcacttgtgctacctgtccatggt	D31967
27131	tgttctgcctggagtgtgcactgcg	D31967
27132	agtgtgcactgcgccatgtggagaa	D31967
69669	acacagcatgtactctggcggcttg	U57746
69670	cacatccggcccaagattgtggtgg	U57746
69671	accaacaaccatagccacacagcag	U57746
69672	aaccatagccacacagcagaacaag	U57746
69673	agccacacagcagaacaagtgacag	U57746
69674	gtggttgtgctgggcctgcttccga	U57746
69675	ccccgagcccacttcttagatgcag	U57746
69676	cgcacaggccaagatcattgtgctg	U57747
69677	tgtgctgggtctgttacctcgaggt	U57747
69678	catgcagttgctggaggaaacaccc	U57747
69679	gaagcagaccaccattgcttgactg	U57747
69680	gaccaccattgcttgactggcccat	U57747
69681	ttgactggcccatcagtgttacagc	U57747
69682	tcagtgttacagcatcccgcttcct	U57747
69683	ttacagcatcccgcttcctcagatc	U57747
69684	gcttcctcagatcagttagaccact	U57747
69685	cagttagaccactggcactacagaa	U57747
69686	tggcactacagaatcctttcttaag	U57747
69687	tacagaatcctttcttaaggcactt	U57747
69688	gggtctgttacctcgaggtgagaag	U57747
69689	ccagcttctcaaggtttccctgccg	U57747
69690	tctcaaggtttccctgccgaagctt	U57747
69691	cctgccgaagcttgccaatgtgcag	U57747
69692	gaagcttgccaatgtgcagctcctt	U57747
69693	tgccaatgtgcagctccttgatata	U57747
69694	tgtgcagctccttgatatagacggg	U57747
69695	catctcctgccacgacatgtttgat	U57747
69696	aactgtacacggttgttcagtgtcg	D85414
69697	actcatccccagcagggcttagaaa	D85414
69698	gatattctaccactggggcattgtg	D85414
69699	ctaccactggggcattgtggagtca	D85414
69700	ggagtcacattcacgaaacacgaag	D85414
69701	gtcacattcacgaaacacgaagcct	D85414
69702	acattcacgaaacacgaagccttgt	D85414
69703	cacgaagccttgtacttctctagaa	D85414
69704	taccgctcgagttattccttatacg	D85414
69705	cgctcgagttattccttatacgtat	D85414
69706	aatcattttcaaaatctcaattcca	D85414
69707	ctcaattccacaaataaagttctat	D85414
69708	cctccttcacactcattttcctttg	D85414
69709	ccttcacactcattttccttggat	D85414
69710	tgattcagtgacatcacagaacctg	D85414
69711	agtgacatcacagaacctggtgtcc	D85414
69712	ccctccatcccaggtgtgtagtaat	D85414
69713	tccatcccaggtgtgtagtaatggt	D85414
69714	atcccaggtgtgtagtaatggtccg	D85414
69715	ctcgttgatattctaccactggggc	D85414
69716	tgacacacaaaacacagagcagacc	U43541
69717	gaagtctctgaactctgccggtgag	U43541
69718	cctgttgcaggccgctcaggataag	U43541
69719	caaagcggcccagctggatgggctg	U43541
69720	agccaggatgcgcagtgtgctccag	U43541
69721	tgtgctccaggccatcaacttgcag	U43541
69722	ggccatcaacttgcaggtccagatc	U43541
69723	catcaacttgcaggtccagatctac	U43541
69724	cttgcaggtccagatctacaacacc	U43541
69725	gatctacaacacctgccagtgacca	U43541
69726	taggcctagccttgtcgccaagcac	U43541
69727	tagccttgtcgccaagcactgttct	U43541
69728	tagcctggcagcatctacagcggaa	U43541
69729	agccttgtcgccaagcactgttctg	U43541
69730	cctggcagcatctacagcggaagaa	U43541
69731	agcatctacagcggaagaaacagca	U43541
69732	aggtgaccaataccaaacagtgagg	U43541
69733	ccaataccaaacagtgagggcgttg	U43541
69734	ccaaacagtgagggcgttggcagag	U43541
69735	aggtgttctggctgcacaagccagg	U43541
69736	tgcacaagccagggcagaacaactg	U43541
112273	ttttgtctgcagtacgtaattgtat	M61731
112274	tgtctgcagtacgtaattgtatagt	M61731
112275	tagttcagatcctgtgagatgaggt	M61731
112276	ttcagatcctgtgagatgaggtgtg	M61731
112277	taacgccgaagggtaagctgaactg	M61731
112278	gaaaccattggctgagagaaaaatg	M61731
112279	gctctttaagtggtggttgttatga	M61731
112280	atgaattcacactgataacttgata	M61731
112281	aattcacactgataacttgataaag	M61731
112282	ctatgttacagttgatgaggattgg	M61731
112283	ttttggtgcatcaccattcggtagg	M61731
112284	tggtgcatcaccattcggtaggaac	M61731
112285	atcaccattcggtaggaacagcggc	M61731
112286	taaacttgaaaccttgatctattct	M61731
112287	tgaaaccttgatctattctttgtat	M61731
112288	aaccttgatctattctttgtatcat	M61731
112289	ctattctttgtatcatttaaagcaa	M61731
112290	ctgtttggctctgcataggaggagc	AA145371
112291	tttggctctgcataggaggagctct	AA145371
112292	gcctggtagccacactccaatcagc	AA145371
112293	ccacactccaatcagcaggggtcct	AA145371
112294	cactccaatcagcaggggtccttgg	AA145371
112295	tccttggactctccacatcaacaaa	AA145371
112296	ttggactctccacatcaacaaatgc	AA145371
112297	gactctccacatcaacaaatgccat	AA145371
112298	ccacatcaacaaatgccatcctagg	AA145371
112299	catcaacaaatgccatcctaggggc	AA145371
112300	caacaaatgccatcctaggggctgc	AA145371
112301	atgccatcctaggggctgctggggc	AA145371
112302	ctgccatgggcttcactgggacagg	AA145371
112303	ccatgggcttcactgggacaggcat	AA145371
112304	tgggcttcactgggacaggcattgc	AA145371
112305	tcactgggacaggcattgcagctgc	AA145371
112306	cagctgcctccatagcagccaagat	AA145371
112307	ccatagcagccaagatgatgtctgc	AA145371
112308	tgatgtctgctgcagcaattgccaa	AA145371
112309	ctgctgcagcaattgccaatggagg	AA145371
112310	tgtttactacacctggacctaatga	W12775
112311	ttactacacctggacctaatgatct	W12775
112312	atcgcccacatcagcggaaactctt	W12775
112313	gcccacatcagcggaaactctttcc	W12775
112314	atcagcggaaactctttcccacaag	W12775
112315	ttcccacaagtgcgggctatcctca	W12775
112316	caagtgcgggctatcctcatcttcg	W12775
112317	cgggctatcctcatcttcgaaaaca	W12775
112318	gctatcctcatcttcgaaaacatca	W12775
112319	atcctcatcttcgaaaacatcagaa	W12775
112320	ctcatcttcgaaaacatcagaactg	W12775
112321	ttcgaaaacatcagaactggatgga	W12775
112322	ctacacctggacctaatgatctgca	W12775
112323	cacctggacctaatgatctgcatat	W12775
112324	atctgcatatttgatacctgatcag	W12775
112325	atatttgatacctgatcagtaggtc	W12775
112326	gatacctgatcagtaggtcgagtag	W12775
112327	acctgatcagtaggtcgagtagatc	W12775
112328	caggtgatcgcccacatcagcggaa	W12775
112329	gtgatcgcccacatcagcggaaact	W12775
112330	cacttagctctgcacatgaagcgtc	M97200
112331	gctctgcacatgaagcgtcacctct	M97200
112332	caaacctcacatgtcctcaggagcc	M97200
112333	cccacagacccagcaatatagacca	M97200
112334	gcaatatagaccaccagataaatca	M97200
112335	tagaccaccagataaatcaactcaa	M97200
112336	accagataaatcaactcaaatggac	M97200
112337	taaatcaactcaaatggacccctag	M97200
112338	aatggacccctagaccagaggtgtg	M97200
112339	atttcctaagatctagaagggagct	M97200
112340	ctgtgcccatccgctaggattgttg	M97200

TABLE 1

SEQ ID NO	sequence	DBAxnID
27133	cactgcgccatgtggagaagcagaa	D31967
27134	aaactcgagcttccgccgctcggat	W77701
27135	ccgctcggatcatccaagtgtttga	W77701
27136	ccgcaagtacactcaggctgagggt	W77701
27137	gtacactcaggctgagggtaaaaag	W77701
27138	caccgtgcaagggcaactgcagggc	W77701
27139	ggtgcgcttcatgcagcagtggctg	W77701
27140	gcgcttcatgcagcagtggctggag	W77701
27141	cttcatgcagcagtggctggagacc	W77701
27142	catgcagcagtggctggagaccaga	W77701
27143	aggaagtcccaagtcgcacattgac	W77701
27144	aagtcccaagtcgcacattgacaga	W77701
27145	tcccaagtcgcacattgacagagca	W77701
27146	ggatcatccaagtgtttgagcatgg	W77701
27147	tcatccaagtgtttgagcatggcat	W77701
27148	aggggacaccttggtctcagtggat	W77701
27149	ggacaccttggtctcagtggattac	W77701
27150	caccttggtctcagtggattacgaa	W77701
27151	cttggtctcagtggattacgaaatt	W77701
27152	ggtgtttttccgcaagtacactcag	W77701
27153	gtttttccgcaagtacactcaggct	W77701
27154	tgatcaaatccagccgtcctttgcg	L22181
27155	tggctgccttttttcctctgctggtg	L22181
27156	tccactctttacctgccagcctaga	L22181
27157	ctttacctgccagcctagagagggc	L22181
27158	ctgccagcctagagagggccctgac	L22181
27159	actcagctcagaccagtgatacagg	L22181
27160	gctctaacttccagcttcatctgct	L22181
27161	agcttcatctgctttgagttccact	L22181
27162	atctgctttgagttccactgtgcta	L22181
27163	tttgagttccactgtgctataggca	L22181
27164	tgttgaccttcaggctacatgctca	L22181
27165	ccttcaggctacatgctcattagga	L22181
27166	tcctctgctggtgcccatttcaagt	L22181
27167	gctacatgctcattaggaaaacttg	L22181
27168	gctggtgcccatttcaagtagtggc	L22181
27169	ttcaagtagtggccctcatatccac	L22181
27170	tatccacaatccaagtccgtgaacg	L22181
27171	agaacatgactccaggcattgtaac	L22181
27172	tgactccaggcattgtaactgcttt	L22181
27173	gcctcaatccaatgctttatgtctt	L22181
27174	ttatgggccaggacttcagagaaag	L22181
27175	atgcatcaccctcgtgtaactaagc	U07159
27176	caccctcgtgtaactaagctccaag	U07159
27177	gaggaacctgtcttcagctctatgg	U07159
27178	cctgtcttcagctctatggtgaccc	U07159
27179	gtcttcagctctatggtgacccttt	U07159
27180	gattggtccttagccccgaattgtg	U07159
27181	gttagtttgctctttgatcacttaa	U07159
27182	ttgctctttgatcacttaaaatgga	U07159
27183	ttttaatgttcattcaagtgacagg	U07159
27184	agattggacacgtcagactgtgaca	U07159
27185	gacatagcagcatttctgtgctgaa	U07159
27186	gcagcatttctgtgctgaactgtta	U07159
27187	cgtgtaactaagctccaagcactgt	U07159
27188	gtaactaagctccaagcactgttgc	U07159
27189	ctccaagcactgttgctgcttcagg	U07159
27190	caagcactgttgctgcttcagggga	U07159
27191	gcactgttgctgcttcaggggaaaa	U07159
27192	ttgctgcttcaggggaaaagggctt	U07159
27193	tttggatctgtgcagcggattccca	U07159
27194	tctgtgcagcggattcccatggcgg	U07159
27195	tcattgagaacgccccagtgcacag	W76686
27196	ttgagaacgccccagtgcacagatg	W76686
27197	aagcaggctcattcatgatatcagt	W76686
27198	caggctcattcatgatatcagttgt	W76686
27199	gctcattcatgatatcagttgtgtc	W76686
27200	cagatatatacccaatcgtgatcct	W76686

SEQ ID NO	sequence	DBAxnID
69737	gtgccttccgttcagtattcggaca	U30602
69738	tcggacaaggcttccctgggatctg	U30602
69739	ctgtgtcgataggctgttgtgctat	U30602
69740	gtgctatctagcacctcagtttctg	U30602
69741	tctagcacctcagtttctgtcccca	U30602
69742	acctcagtttctgtccccagatgtg	U30602
69743	acgtggtcatttcagcccgaatctc	U30602
69744	cagcccgaatctctgtgtggagcac	U30602
69745	gaatctctgtgtggagcacagttat	U30602
69746	cccagccaggggatccagtcagcag	U30602
69747	tggaatcatggccctggggattatt	U30602
69748	catggccctggggattatttgactt	U30602
69749	aaggcttccctgggatctgatgata	U30602
69750	tccctgggatctgatgatagcacac	U30602
69751	aagctcaatgtctcaaagagtgtgt	U30602
69752	agcgccgagagctgccaaggtgctc	U30602
69753	tgccaaggtgctctgcgtgtccaaa	U30602
69754	gtccaaacacagtaacatctgtgtc	U30602
69755	acacagtaacatctgtgtcgatagg	U30602
69756	taacatctgtgtcgataggctgttg	U30602
69757	ccttcagcccaactctgggccaaat	U52193
69758	tatctgtttcttaccgaaatggcac	U52193
69759	aacttcaactgagtgtactcagtgc	U52193
69760	tcagtgcagaatcactgcgggagaa	U52193
69761	cagaatcactgcgggagaatttctt	U52193
69762	taaccctgccactgaaagatttcaa	U52193
69763	atttcaacttgagcaaagagacagt	U52193
69764	ggtatcagctgactgcggcaacgta	U52193
69765	agctgactgcggcaacgtatctata	U52193
69766	ccgacttctgagctttggaaacaag	U52193
69767	gcatgcgcacatacacacacttggg	U52193
69768	gcacatacacacacttgggaacttt	U52193
69769	accgaaatggcaccctcttcatcat	U52193
69770	atggcaccctcttcatcatggtgat	U52193
69771	ccctcttcatcatggtgatgcacat	U52193
69772	tgcacatcaaagatcttgtgactga	U52193
69773	atcttgtgactgaagatggggctga	U52193
69774	atccctatgtcaaaacatacctgct	U52193
69775	atgtcaaaacatacctgcttccaga	U52193
69776	ggaacccaacattcaatgaaatgct	U52193
69777	atgtttacagaccagcctgccttgc	U54638
69778	tcagtggccccagtcccaacctgga	U54638
69779	aactgggctctaggtccagcactgt	U54638
69780	gctctaggtccagcactgtggggca	U54638
69781	ctaggtccagcactgtggggcacca	U54638
69782	ccactggactaggacggaaggctgg	U54638
69783	ccctcttaagttgtggctatcatgg	U54638
69784	gctggctaggattcccctaagcgct	U54638
69785	taggattcccctaagcgcttcctgg	U54638
69786	aactggaacaactctgccctatctg	U54638
69787	tggaacaactctgccctatctgcct	U54638
69788	gtgatcccaatatcaaccattaaag	U54638
69789	accttttccctggatgctgcccctg	U54638
69790	cccaaatccagaggtttctacagca	U54638
69791	ttctacagcaaaagccagctcggcc	U54638
69792	agcaaaagccagctcggcccatggc	U54638
69793	agccagctcggcccatggctccagt	U54638
69794	ccatggctccagtccccagtgtgag	U54638
69795	ccagcaacaggatctggccaagaaa	U54638
69796	aaggacaactgggctctaggtccag	U54638
69797	gcagcgctgcctggagtctttctgg	L76567
69798	ctgcctggagtctttctggagcctt	L76567
69799	ctctaccctcaagaacattccaggc	L76567
69800	gaacattccaggcacccttctggta	L76567
69801	tccaggcacccttctggtagatctc	L76567
69802	tgaactccttgaagacatgcttttg	L76567
69803	agacatgcttttgctgaggtgaccc	L76567
69804	ctcggacttccttgctttggataca	L76567

SEQ ID NO	sequence	DBAxnID
112341	ccatccgctaggattgttgtcgtta	M97200
112342	cacatgaagcgtcacctctgagtga	M97200
112343	tgagtgatcctgcacaaggactggg	M97200
112344	atcctgcacaaggactggggatgaa	M97200
112345	tccaaggaccgtatcccaaaagatg	M97200
112346	gaccgtatcccaaaagatgagccat	M97200
112347	ttatatagtcctacccagatcaaaa	M97200
112348	aactgaccagaagaccatacaaagg	M97200
112349	tcaggacaaacctcacatgtcctca	M97200
112350	tgggtccaggaccttgaaggctcca	W12776
112351	gaccttgaaggctccagtgatcaca	W12776
112352	gcttttcccaaacatggtcaggaag	W12776
112353	tttcccaaacatggtcaggaagata	W12776
112354	ttcccaaacatggtcaggaagatag	W12776
112355	aagttgatgggccactggcttcttc	W12776
112356	ttgatgggccactggcttcttcatc	W12776
112357	atgggccactggcttcttcatcata	W12776
112358	catcatagcgtcgagttcctattct	W12776
112359	tcatagcgtcgagttcctattctca	W12776
112360	catagcgtcgagttcctattctcac	W12776
112361	tagcgtcgagttcctattctcacat	W12776
112362	cttgaaggctccagtgatcacatcc	W12776
112363	tgaaggctccagtgatcacatcctc	W12776
112364	gaaggctccagtgatcacatcctcc	W12776
112365	aggctccagtgatcacatcctccgg	W12776
112366	ggctccagtgatcacatcctccggg	W12776
112367	ctccagtgatcacatcctccgggtc	W12776
112368	tccagtgatcacatcctccgggtcc	W12776
112369	taagcttttcccaaacatggtcagg	W12776
112370	gggcttcaacgattacctagacatc	AA002297
112371	catcttctgcccacattatgaaagc	AA002297
112372	caggctacgaggcctgcacggcaga	AA002297
112373	ccttccagcgctggaattgctcgat	AA002297
112374	tccagcgctggaattgctcgatgcc	AA002297
112375	ggaattgctcgatgccttttgcccc	AA002297
112376	attgctcgatgccttttgccccttt	AA002297
112377	tcagccctgttcgattctcagaaaa	AA002297
112378	ctgttcgattctcagaaaagattca	AA002297
112379	gctttgagttcttgcctggagagac	AA002297
112380	agttcttgcctggagagacttacta	AA002297
112381	actacatctcggtgccgactccgga	AA002297
112382	cttctgcccacattatgaaagccca	AA002297
112383	ctgcccacattatgaaagcccaggg	AA002297
112384	ttatgaaagcccagggccccagaag	AA002297
112385	ggccgtaaacctttgcattatacat	AA002297
112386	cctttgcattatacatggtggactg	AA002297
112387	cattatacatggtggactggtcagg	AA002297
112388	acatggtggactggtcaggctacga	AA002297
112389	tggactggtcaggctacgaggcctg	AA002297
112390	attccagtattgttgtcacaggcgt	M87862
112391	gtattgttgtcacaggcgtaaataa	M87862
112392	ttcagtggctgccgaagtattcttg	M87862
112393	ctgtgtcctggcactgaagccagca	M87862
112394	atgagatccatcattcttatgtcag	M87862
112395	tccatcattcttatgtcagctcaag	M87862
112396	atgtcagctcaagggtcaaaaggac	M87862
112397	tcagaatcctgtggcctatcacatg	M87862
112398	tcctgtggcctatcacatggcaaaa	M87862
112399	ggcctatcacatggcaaaagttatc	M87862
112400	tatatctgcagcccacttattttca	M87862
112401	tgcagcccacttattttcaaaatga	M87862
112402	atatttatcagcagttttgagcaaa	M87862
112403	cagaattgccatattctcaggttat	M87862
112404	tgccatattctcaggttatggccta	M87862
112405	aggttatggcctaggagtgtcatta	M87862
112406	gtcattacgggtacaaggtgcagtt	M87862
112407	tgcagttcctggtgaatataacatg	M87862
112408	acatattggctttatcccatgggat	M87862

09/396196

TABLE 1

SEQ ID NO	sequence	DBAxnID
27201	atatatacccaatcgtgatcctctg	W76686
27202	tatacccaatcgtgatcctctggac	W76686
27203	acccaatcgtgatcctctggacaag	W76686
27204	caatcgtgatcctctggacaagtgt	W76686
27205	tgatcctctggacaagtgtagaacc	W76686
27206	atcctctggacaagtgtagaaccct	W76686
27207	agaacgccccagtgcacagatggca	W76686
27208	acgccccagtgcacagatggcagag	W76686
27209	ccccagtgcacagatggcagagctc	W76686
27210	caggtcatcatttcgatccaaacta	W76686
27211	gtcatcatttcgatccaaactaaat	W76686
27212	atcatttcgatccaaactaaattgc	W76686
27213	atttcgatccaaactaaattgcaga	W76686
27214	gcacagttcaagttgcctcgccgcc	W76686
27215	gcgctgtacgcttaccactggaaac	W76724
27216	gctgtacgcttaccactggaaacct	W76724
27217	cctgcaatccagacaggttgacacg	W76724
27218	tgcaatccagacaggttgacacgtt	W76724
27219	atccagacaggttgacacgttttcg	W76724
27220	gttgacacgttttcggtagcaggat	W76724
27221	tgacacgttttcggtagcaggattt	W76724
27222	agacatgggttccttgctagtgctc	W76724
27223	acatgggttccttgctagtgctctg	W76724
27224	cttgctagtgctctgagttcgatga	W76724
27225	tgctagtgctctgagttcgatgaag	W76724
27226	ctagtgctctgagttcgatgaagag	W76724
27227	tgtacgcttaccactggaaacctgc	W76724
27228	tacgcttaccactggaaacctgcaa	W76724
27229	cttaccactggaaacctgcaatcca	W76724
27230	taccactggaaacctgcaatccaga	W76724
27231	ccactggaaacctgcaatccagaca	W76724
27232	actggaaacctgcaatccagacagg	W76724
27233	gaaacctgcaatccagacaggttga	W76724
27234	aacctgcaatccagacaggttgaca	W76724
27235	taccaagcccatcagtgaggtgcta	U20257
27236	atccgacatgacaggcaacaccgta	U20257
27237	tgatgtacctaaactggtgactgag	U20257
27238	acctaaactggtgactgagttcctg	U20257
27239	gaagtttgacctggaccagttgata	U20257
27240	aagcattcggactgtcctgacattt	U20257
27241	tcggactgtcctgacattttgagtt	U20257
27242	ttgagttccagagacctgggtgttc	U20257
27243	tccagagacctgggtgttctgagct	U20257
27244	ctgagctgggctaccgtgacctgaa	U20257
27245	accgtgacctgaagccttgctcctg	U20257
27246	acctgaagccttgctcctgacagtg	U20257
27247	catgacaggcaacaccgtacagtat	U20257
27248	gccttgctcctgacagtgttctctg	U20257
27249	tattgggcgtcttgagaccatggtt	U20257
27250	catggttgatgccctctcatcttgc	U20257
27251	cctctcatcttgccatatgaactat	U20257
27252	gaactatgggaccagtgtggtggtt	U20257
27253	gtcagccaagatgctcacctatgac	U20257
27254	caagatgctcacctatgacccaatg	U20257
27255	ctatgacccaatgctgctcttcact	U20257
27256	gctactcgcgctgtgacattccaag	AA003990
27257	actcgcgctgtgacattccaagcta	AA003990
27258	atgggcccttaagaactgtgtggat	AA003990
27259	ggcccttaagaactgtgtggattgc	AA003990
27260	ttgccagaaatcctccaggattcgc	AA003990
27261	ccagaaatcctccaggattcgcctt	AA003990
27262	gaaatcctccaggattcgcctttgt	AA003990
27263	atcctccaggattcgcctttgtgga	AA003990
27264	ctccaggattcgcctttgtggaatt	AA003990
27265	caggattcgcctttgtggaatttga	AA003990
27266	gattcgcctttgtggaatttgaaga	AA003990
27267	aagaccctagagatgcagaggatgc	AA003990
27268	gctgtgacattccaagctagagccg	AA003990
69805	cttccttgctttggatacagtgtac	L76567
69806	agtgtacactactaactgtccagca	L76567
69807	taactgtccagcaagcccttgatga	L76567
69808	gctgtactttcaagccagaatccct	L76567
69809	gagccttgagctgggtcccaaggag	L76567
69810	gtatgcgtacctgaagggcacgatc	L76567
69811	cacgatcctcttcaacccagatgtg	L76567
69812	agatgtgccaggcctccgtgcctcc	L76567
69813	catcgcacacctgcaacaggaggct	L76567
69814	acacctgcaacaggaggctcactgg	L76567
69815	tcactgggcactgtgtgaagtcttg	L76567
69816	catggcctctaccctcaagaacatt	L76567
69817	acgtgctcattgtggtgttgaccat	L48687
69818	ggtgttgaccatatggcttgtggca	L48687
69819	ggccattacatccgagagcaaagaa	L48687
69820	aaactgtacaggcgtccaggtggct	L48687
69821	actgtacaggcgtccaggtggctga	L48687
69822	ctgtacaggcgtccaggtggctgaa	L48687
69823	gtacaggcgtccaggtggctgaata	L48687
69824	tacaggcgtccaggtggctgaatag	L48687
69825	caggcgtccaggtggctgaatagcg	L48687
69826	aggcgtccaggtggctgaatagcgc	L48687
69827	gcgtccaggtggctgaatagcgctg	L48687
69828	tgaatagcgctggctctgggctccg	L48687
69829	tgttgaccatatggcttgtggcaga	L48687
69830	tgaccatatggcttgtggcagagat	L48687
69831	ctcagaatacctggccattacatcc	L48687
69832	cagaatacctggccattacatccga	L48687
69833	agaatacctggccattacatccgag	L48687
69834	aatacctggccattacatccgagag	L48687
69835	acctggccattacatccgagagcaa	L48687
69836	cctggccattacatccgagagcaaa	L48687
69837	cttccagagccaatcctataacctc	U47737
69838	gagccaatcctataacctcccttgg	U47737
69839	acagcagaaggcctgtgtcgccacc	U47737
69840	tatcattgtacccaccttgtactct	U47737
69841	tgtacccaccttgtactctgttcag	U47737
69842	caccttgtactctgttcaggaggct	U47737
69843	ccagatgaaggctcccactacccga	U47737
69844	tcccactacccgatgcagttgagtc	U47737
69845	tacccgatgcagttgagtcccatcc	U47737
69846	tcctgctgctattctagtgcctcaa	U47737
69847	tgctattctagtgcctcaaataaac	U47737
69848	tctagtgcctcaaataaaccgttca	U47737
69849	gaagatctccttggagtctcaagag	U47737
69850	ctccttggagtctcaagagtaccag	U47737
69851	gagtcagcgccgaatcttgtggaca	U47737
69852	aatcttgtggacacactgacaagga	U47737
69853	atgtctaatccaaatagatgtatat	U47737
69854	tctgtgtgctcagtgtatccctgtg	U47737
69855	tgctcagtgtatccctgtgtgaatg	U47737
69856	gattctacagcagaaggcctgtgtc	U47737
69857	tttgactagttgcagtcatggggtt	D29639
69858	tagttgcagtcatggggttcttcca	D29639
69859	agcctacattctgggcctgacagga	D29639
69860	cattctgggcctgacaggaaatgtt	D29639
69861	ctatctttgaggccattcagatctt	D29639
69862	ttgaggccattcagatcttaaccat	D29639
69863	agatcttaaccatcactgtccgtcc	D29639
69864	taaccatcactgtccgtccttcttg	D29639
69865	gtttcttccggtgaaatctgtgcta	D29639
69866	gaaatctgtgctaccaagtgcctat	D29639
69867	tgtgctaccaagtgcctatgaattg	D29639
69868	accaagtgcctatgaattgactcta	D29639
69869	tggggttcttccactgaaatggaat	D29639
69870	ccttggtgccttggagcaacatctt	D29639
69871	cttagactcattccctcaggtcttc	D29639
69872	ctcattccctcaggtcttctgaaaa	D29639
112409	tatcccatgggattcagtggctgcc	M87862
112410	gttaagcagcatcttctccaaaatg	AA013535
112411	aagcagcatcttctccaaaatgttt	AA013535
112412	gcgtaacctgtatgcactctgtaat	AA013535
112413	taacctgtatgcactctgtaatggg	AA013535
112414	cctgtatgcactctgtaatgggctt	AA013535
112415	gtatgcactctgtaatgggctttaa	AA013535
112416	actctgtaatgggctttaagatggg	AA013535
112417	tttccatagactttcccacagccac	AA013535
112418	ttcccacagccactgtaggggcact	AA013535
112419	ccacagccactgtaggggcacttgt	AA013535
112420	cagccactgtaggggcacttgtgct	AA013535
112421	ccactgtaggggcacttgtgctcgt	AA013535
112422	cagcatcttctccaaaatgtttgca	AA013535
112423	catcttctccaaaatgtttgcagcc	AA013535
112424	aatgtttgcagcctctaggccgagt	AA013535
112425	gtttgcagcctctaggccgagtgcg	AA013535
112426	agcctctaggccgagtgcggtgtcc	AA013535
112427	ctctaggccgagtgcggtgtcctgg	AA013535
112428	aggcgacgcgcgtaacctgtatgca	AA013535
112429	cgacgcgcgtaacctgtatgcactc	AA013535
112430	tggctcagaagaaccgcgaggaact	M11686
112431	agtactggtctcagcagattgagga	M11686
112432	atggggtccttctgcatctggagtc	M11686
112433	tccttctgcatctggagtcagagct	M11686
112434	agcgccaggcccaggaatatgaagc	M11686
112435	gtctcaacgatgccctggactccag	M11686
112436	gcaactccatgcaaactgtgcagaa	M11686
112437	ccatgcaaactgtgcagaagacaac	M11686
112438	tgcagaagacaactacccgtaagat	M11686
112439	ctacccgtaagatcgtggatggcag	M11686
112440	agactaatgacaccagagttctgag	M11686
112441	ttctgaggcactgaggcagagaagg	M11686
112442	ggtctcagcagattgaggagagtac	M11686
112443	ccacagttgtcaccaccaagtctgc	M11686
112444	ttgtcaccaccaagtctgccgaaat	M11686
112445	agtctgccgaaatcagggacgctga	M11686
112446	agattgacttggactccatgaaaaa	M11686
112447	accagaacatcaacttggagaacag	M11686
112448	cccgatacaaggcacagatggagca	M11686
112449	agctcaatggggtccttctgcatct	M11686
112450	cctactggcatggctgctactcctg	W13070
112451	ctactggcatggctgctactcctgt	W13070
112452	tcggactctggcactgcccaagttg	W13070
112453	cggactctggcactgcccaagttgc	W13070
112454	gactctggcactgcccaagttgccc	W13070
112455	cccagagcctgggcctggacagcct	W13070
112456	cagagcctgggcctggacagcctgg	W13070
112457	tggcccttccacagctgccacagga	W13070
112458	cagctgccacaggaggtttaggggc	W13070
112459	tactggcatggctgctactcctgtc	W13070
112460	actggcatggctgctactcctgtcc	W13070
112461	ctctccaggctcggactctggcact	W13070
112462	ctccaggctcggactctggcactgc	W13070
112463	tccaggctcggactctggcactgcc	W13070
112464	caggctcggactctggcactgccca	W13070
112465	aggctcggactctggcactgcccaa	W13070
112466	ctcggactctggcactgcccaagtt	W13070
112467	gtacaagaacttctacacctgaacg	W12946
112468	acaagaacttctacacctgaacgca	W12946
112469	tacaagtcgctgacaggaatcgagt	W12946
112470	agtcgctgacaggaatcgagtataa	W12946
112471	agtataagcctgtgtctgctactga	W12946
112472	tataagcctgtgtctgctactgatc	W12946
112473	taagcctgtgtctgctactgatcgc	W12946
112474	agcctgtgtctgctactgatcgcag	W12946
112475	tgtgtctgctactgatcgcagaaga	W12946
112476	tctgctactgatcgcagaagacaaa	W12946

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27269	gtgacattccaagctagagccgagt	AA003990	69873	ggggcctacagatgcacccaagggc	D29639	112477	tgctactgatcgcagaagacaaaga	W12946
27270	acattccaagctagagccgagtaca	AA003990	69874	tacagatgcacccaagggcagcagc	D29639	112478	ctactgatcgcagaagacaaagata	W12946
27271	ttccaagctagagccgagtacacgg	AA003990	69875	gcctcgagccttagcctacattctg	D29639	112479	gaacttctacacctgaacgcacagt	W12946
27272	agagccgagtacacgggccggccat	AA003990	69876	agccttagcctacattctgggcctg	D29639	112480	acttctacacctgaacgcacagtac	W12946
27273	cggccatcatgtcacgctacgggcg	AA003990	69877	tgcttgacctacaacaacggcaggt	D14336	112481	ttctacacctgaacgcacagtacaa	W12946
27274	ccatcatgtcacgctacgggcggta	AA003990	69878	ttacagaacctcatttcaagttcta	D14336	112482	ctacacctgaacgcacagtacaagt	W12946
27275	actatgggcccttaagaactgtgtg	AA003990	69879	gcccagaactctgatcgacagtcaa	D14336	112483	acacctgaacgcacagtacaagtcg	W12946
27276	tcaactgatgacttgtgatgtcttt	U19106	69880	ttttccacagccacttctgttcact	D14336	112484	acgcacagtacaagtcgctgacagg	W12946
27277	ttttccaacaggattcaatcacttc	U19106	69881	acagccacttctgttcacttccatt	D14336	112485	acagtacaagtcgctgacaggaatc	W12946
27278	ctcattgtgaagtcccttaagagta	U19106	69882	tataacccaaagtactcaggagact	D14336	112486	agtacaagtcgctgacaggaatcga	W12946
27279	aatggaccttacaggaccttgcagc	U19106	69883	aattctgagcctctctgggactcca	D14336	112487	agcaccaacaatgacgaagacatga	M13227
27280	ggaccttacaggaccttgcagctgc	U19106	69884	gccttactttagggtggttatcatg	D14336	112488	gagtctctgccctctgatgaagaag	M13227
27281	ccttacaggaccttgcagctgctgt	U19106	69885	tatcatgccagaagccagcattcca	D14336	112489	tgcccccgtggtctagataactaca	M13227
27282	tacaggaccttgcagctgctgtctg	U19106	69886	gccagaagccagcattccagcttgt	D14336	112490	ctagataactacactgcctgaaagc	M13227
27283	ctctttcaagtgcacttgttaactt	U19106	69887	agcttgtgtgcgtctcttatgcaga	D14336	112491	gataactacactgcctgaaagctgt	M13227
27284	caagtgcacttgttaacttgtggtt	U19106	69888	tgtgcgtctcttatgcagaaattaa	D14336	112492	actgcctgaaagctgtgattttagg	M13227
27285	gtgcacttgttaacttgtggttact	U19106	69889	aacctcatttcaagttctatgaggg	D14336	112493	tcttgaagctcagtattggtctctt	M13227
27286	tgaaagcccagtgttaaagtccaag	U19106	69890	atttcaagttctatgagggccaaga	D14336	112494	agctcagtattggtctcttatggct	M13227
27287	gtggataatctgcccctgcactgat	U19106	69891	gccaagatcacttcgtatgcgatta	D14336	112495	tcagtattggtctcttatggctatg	M13227
27288	aggattcaatcacttctagtctagt	U19106	69892	atcacttcgtatgcgattatacttg	D14336	112496	gtctcttatggctatgttgttatca	M13227
27289	attcaatcacttctagtctagtgtt	U19106	69893	atacttgccctgcacataaataact	D14336	112497	cctcatctctcctggatgaaacatc	M13227
27290	caatcacttctagtctagtgtttac	U19106	69894	gccctgcacataaataacttccagg	D14336	112498	ctctcctggatgaaacatcaataaa	M13227
27291	tcacttctagtctagtgtttacagt	U19106	69895	gttgacctgacagcgttgcagaagg	D14336	112499	ggctttatgcggttctgaagccctt	M13227
27292	tgtttacagtttctcattgtgaagt	U19106	69896	ctgggcactctgtctgtcccactgc	D14336	112500	ttctgaagccctttttccagcagtga	M13227
27293	ttacagtttctcattgtgaagtccc	U19106	69897	tgaaacttccagaatattctccatt	U18869	112501	ccatgagcaactgccttgtcaatga	M13227
27294	cagtttctcattgtgaagtccctta	U19106	69898	aatattctccattctaccctccatt	U18869	112502	gcaactgccttgtcaatgatgtttc	M13227
27295	tttctcattgtgaagtcccttaaga	U19106	69899	gatggtcgtttctcagctaactgca	U18869	112503	tttcttgtcacatgctgctttgtgc	M13227
27296	gcgcggcacacatattcatccttac	W76782	69900	agagctaactcaaaacacaaggcat	U18869	112504	acatgctgctttgtgctgtacagtt	M13227
27297	cgcggcacacatattcatccttacg	W76782	69901	aactcaaaacacaaggcattattca	U18869	112505	ctgtacagttgcccccgtggtctag	M13227
27298	atattcatccttacgaggtgcgcga	W76782	69902	cccacattgttttcattccagatac	U18869	112506	tacagttgcccccgtggtctagata	M13227
27299	tattcatccttacgaggtgcgcgaa	W76782	69903	ttgttttcattccagatacgttgca	U18869	112507	tgagtcacaggtcagcaggatgcca	W13030
27300	attcatccttacgaggtgcgcgaaa	W76782	69904	tcattccagatacgttgcagctgtt	U18869	112508	acaggtcagcaggatgccaggagta	W13030
27301	ttcatccttacgaggtgcgcgaaaa	W76782	69905	cagatacgttgcagctgtttgaccc	U18869	112509	agcactgtcaattctgctacctctg	W13030
27302	tcatccttacgaggtgcgcgaaaaa	W76782	69906	agctgtttgaccctgatgacattat	U18869	112510	actgtcaattctgctacctctgtcc	W13030
27303	tccttacgaggtgcgcgaaaaacag	W76782	69907	acattatgccctacattttccttga	U18869	112511	aattctgctacctctgtccgctggt	W13030
27304	gaaagccgtgagcccagaagacagg	W76782	69908	acatttttccttgaagatcctgattt	U18869	112512	tctgctacctctgtccgctggtgtg	W13030
27305	gcggcacacatattcatccttacga	W76782	69909	tttaccccttaatatcacactgcctt	U18869	112513	tctgtccgctggtgtgtgacacgct	W13030
27306	cggcacacatattcatccttacgag	W76782	69910	ctgccttgagtcaatgtccaaatac	U18869	112514	tgtgtgacacgctctgcactccagg	W13030
27307	ggcacacatattcatccttacgagg	W76782	69911	caaatactcatagctctcaaagtca	U18869	112515	gtgacacgctctgcactccaggaag	W13030
27308	gcacacatattcatccttacgaggt	W76782	69912	gcggcctaaacctaaagcatcctat	U18869	112516	acacgctctgcactccaggaagcta	W13030
27309	cacacatattcatccttacgaggtg	W76782	69913	taagacaccttgcttcctatgtcca	U18869	112517	tctgcactccaggaagctacgttga	W13030
27310	acacatattcatccttacgaggtgc	W76782	69914	accttgcttcctatgtccactcagg	U18869	112518	gcactccaggaagctacgttgacta	W13030
27311	cacatattcatccttacgaggtgcg	W76782	69915	cttcctatgtccactcagggagaat	U18869	112519	gctactgttctttctgcaaccgatg	W13030
27312	acatattcatccttacgaggtgcgc	W76782	69916	aagcaagactaacttctcaaatcca	U18869	112520	actgttctttctgcaaccgatgtac	W13030
27313	tatcacccggtggaaatttagctct		69917	atagctcctctacccaggattctat	U58497	112521	tctgcaaccgatgtaccgaatgtga	W13030
27314	atcacccggtggaaatttagctctg		69918	tgtcttcctcaacaacttcttcctc	U58497	112522	gcaaccgatgtaccgaatgtgaaag	W13030
27315	tctgtctttcaattttgaaactcat		69919	caacataccaattttctgctaatac	U58497	112523	aaagctgtcactgtgatgaggagaa	W13030
27316	ctgtctttcaattttgaaactcata		69920	tttctgctaatacaggtcctgcaca	U58497	112524	actgtgaccagtgtcagcactgtca	W13030
27317	tgtctttcaattttgaaactcatag		69921	ctaatacaggtcctgcacattacat	U58497	112525	gtgaccagtgtcagcactgtcaatt	W13030
27318	aattttgaaactcataggagatata		69922	ctgcacattacatgactgaaggaca	U58497	112526	accagtgtcagcactgtcaattctg	W13030
27319	attttgaaactcataggagatatag		69923	ctcccatgacaggagtttgtgtgca	U58497	112527	ccatgataaccagacctgttgtaaa	M86736
27320	ttttgaaactcataggagatataga		69924	aacagagtcctgtagctagctcgtg	U58497	112528	tgataaccagacctgttgtaaagac	M86736
27321	taatagttgcagtgttgacgataaa		69925	gtcctgtagctagctcgtgactaca	U58497	112529	catcctgagtcaccctatcaccatg	M86736
27322	aatagttgcagtgttgacgataaag		69926	tagctagctcgtgactacattgaaa	U58497	112530	cctgagtcaccctatcaccatggga	M86736
27323	atagttgcagtgttgacgataaaga		69927	gagattaacacactgaaccgctaca	U58497	112531	gagtcaccctatcaccatgggaggt	M86736
27324	tagttgcagtgttgacgataaagat		69928	aacacactgaaccgctacaagaggg	U58497	112532	tggcaaaagccccgtatcaaactgc	M86736
27325	tcacccggtggaaatttagctctgt		69929	cttcctcctctactggtaatcaagg	U58497	112533	cgtatcaaactgccatttcttccgg	M86736
27326	ggaaatttagctctgtctttcaatt		69930	cctctactggtaatcaaggcaatca	U58497	112534	ctgccatttcttccggtttctgtgg	M86736
27327	gaaatttagctctgtctttcaattt		69931	atcaaggcaatcaggcctatcagaa	U58497	112535	gtggaccttgtggccaggtgctctt	M86736
27328	ttagctctgtctttcaattttgaaa		69932	accgcccagtggctgctaacacctt	U58497	112536	gaccttgtggccaggtgctcttccc	M86736
27329	tagctctgtctttcaattttgaaac		69933	cagtggctgctaacaccttggactt	U58497	112537	cttgtggccaggtgctcttcccgag	M86736
27330	agctctgtctttcaattttgaaact		69934	acaccttggactttggacagaatgg	U58497	112538	cgagccacaggtgttctgtgagctt	M86736
27331	gctctgtctttcaattttgaaactc		69935	cccgccaagagactggcatagctgg	U58497	112539	taaccagacctgttgtaaagacagt	M86736
27332	ctctgtctttcaattttgaaactca		69936	tagctggacatccaacataccaatt	U58497	112540	agacagtgcaggagtctgggcctgc	M86736
27333	ttcgcacacatccttgggcttgtaa	U35730	69937	ctaagtccatcaacctggctgagtg	AA067092	112541	tccctacctaaagggtgtctgctgt	M86736
27334	agcaggcttcaggacagcagggttg	U35730	69938	aagtccatcaacctggctgagtgcg	AA067092	112542	tcactgttgccccggtggcttccac	M86736
27335	gtggctctcagggctgtgatcaaac	U35730	69939	cagcggctctgagggtcaaaaccag	AA067092	112543	ttgccccggtggcttccactgttca	M86736
27336	atcaaacttgaggcccttcaggagc	U35730	69940	cccaagagccctgcacttcttgaca	AA067092	112544	ccactgttcagccaggggaaccaag	M86736

TABLE 1

SEQ ID NO	sequence	DBAxnID
27337	ttgccttgctcttccactgcaggtg	U35730
27338	tgctcttccactgcaggtgacaact	U35730
27339	tccactgcaggtgacaactaaagta	U35730
27340	taaagtaccttgtttgcacccactg	U35730
27341	ggcccctctgcagctctgctctatgg	U35730
27342	ctgcagctctgctctatggcatgtg	U35730
27343	ctctgctctatggcatgtgcagctg	U35730
27344	tctatggcatgtgcagctgtggggc	U35730
27345	cttcaggacagcagggttgaagagc	U35730
27346	gccattgtggcaccatcccaggcca	U35730
27347	caggcagccacatcctttgaggcac	U35730
27348	tcctttgaggcacttgtgcgctttg	U35730
27349	cttgtgcgctttgcagagcggcagc	U35730
27350	cggcagccgtgtttcagcgtgcaag	U35730
27351	ttcagcgtgcaagagatggggcagc	U35730
27352	gcactgcacacggtgttcaggagac	U35730
27353	gttggtctctgttgtgcttactgca	D28492
27354	tgtgcttactgcaggctgtaatggc	D28492
27355	ctacatatcacgtgtgagacaactt	D28492
27356	acaacttctttcacatctccatagt	D28492
27357	tctttcacatctccatagtgcccag	D28492
27358	acatctccatagtgcccagcaaatt	D28492
27359	aagacttgctgccaaattctgcctt	D28492
27360	tgctgccaaattctgccttttgggt	D28492
27361	ctgccttttgggtcagtataggatg	D28492
27362	gaatcttcacacttcccactgccaa	D28492
27363	agattttgtattgccatcaggtgcc	D28492
27364	tgtattgccatcaggtgccaaataa	D28492
27365	ttgttccctctgaggctgaatgctc	D28492
27366	aggctgaatgctccaagagagtggg	D28492
27367	gaactgtgcttcttacttactgata	D28492
27368	tgcttcttacttactgatatccagt	D28492
27369	ttacttactgatatccagtaactgg	D28492
27370	taactggcacttactaggtcttcat	D28492
27371	gcacttactaggtcttcatgaatgt	D28492
27372	tattttctacatatcacgtgtgaga	D28492
27373	atgtttatccttgaagacataaaag	X14194
27374	cttctactttcactgtactcagccc	X14194
27375	gtcatgttcctcatgatatatatct	X14194
27376	aaccactgaaggtgcttattaatgg	X14194
27377	cttattaatggttctccagatgtat	X14194
27378	ttaatggttctccagatgtatacaa	X14194
27379	aatggttctccagatgtatacaagt	X14194
27380	tggttctccagatgtatacaagtat	X14194
27381	gttctccagatgtatacaagtattg	X14194
27382	atgattcctcaagtttacagctgta	X14194
27383	gattcctcaagtttacagctgtaca	X14194
27384	ttcctcaagtttacagctgtacaaa	X14194
27385	acctcgacctgcttacattggactg	X14194
27386	ctcgacctgcttacattggactggg	X14194
27387	cgacctgcttacattggactgggaa	X14194
27388	acctgcttacattggactgggaatc	X14194
27389	cgtgtgactctttcacgcaccctca	X14194
27390	tgtgactctttcacgcaccctcata	X14194
27391	tgactctttcacgcaccctcataaa	X14194
27392	ttgtcatgttcctcatgatatatat	X14194
27393	tccagagtggatccctcgtgtgctt	W78338
27394	cagagtggatccctcgtgtgcttca	W78338
27395	gaaggcaagcacctcgtacacttta	W78338
27396	aaggcaagcacctcgtacactttag	W78338
27397	aggcaagcacctcgtacactttagg	W78338
27398	ggcaagcacctcgtacactttagga	W78338
27399	caagcacctcgtacactttaggatg	W78338
27400	aagcacctcgtacactttaggatgg	W78338
27401	agcacctcgtacactttaggatggt	W78338
27402	gctgccactggccccagcagtcaag	W78338
27403	ccactggccccagcagtcaagatct	W78338
27404	cactggccccagcagtcaagatctg	W78338

SEQ ID NO	sequence	DBAxnID
69941	caagagccctgcacttcttgacacg	AA067092
69942	agagccctgcacttcttgacacgtt	AA067092
69943	agccctgcacttcttgacacgtttc	AA067092
69944	ctgcacttcttgacacgtttcttcc	AA067092
69945	gcacttcttgacacgtttcttcctg	AA067092
69946	acttcttgacacgtttcttcctgag	AA067092
69947	ttcttgacacgtttcttcctgagaa	AA067092
69948	tcctgagaagggcccgcaggccctg	AA067092
69949	ctggctgagtgcgcaggagatgcta	AA067092
69950	gatgctatctccatggcaacactgg	AA067092
69951	tgctatctccatggcaacactggca	AA067092
69952	ctatctccatggcaacactggcaga	AA067092
69953	ctccatggcaacactggcagagatc	AA067092
69954	ccatggcaacactggcagagatcta	AA067092
69955	atggcaacactggcagagatctatg	AA067092
69956	agatctatgtggcagcggctctgag	AA067092
69957	gtaatcttcttcattgtcctcagcg	D38162
69958	ttcttcattgtcctcagcgtgcttc	D38162
69959	tcttttacatacctgaactagcaa	D38162
69960	tttacatacctgaactagcaatac	D38162
69961	acatatacctgaactagcaatacaat	D38162
69962	aatcaccaactgaattttgtatcta	D38162
69963	taattgataccagtttccactggaa	D38162
69964	ttgataccagtttccactggaacac	D38162
69965	ccagtttccactggaacacttatca	D38162
69966	gtttccactggaacacttatcagct	D38162
69967	tccactggaacacttatcagctgat	D38162
69968	actggaacacttatcagctgataat	D38162
69969	ttcattgtcctcagcgtgcttcagt	D38162
69970	attgtcctcagcgtgcttcagtaat	D38162
69971	gtcctcagcgtgcttcagtaatgcc	D38162
69972	cttcagtaatgccaactaatactaa	D38162
69973	agtcatatttgctcaagacaatcaa	D38162
69974	catatttgctcaagacaatcaaccc	D38162
69975	atttgctcaagacaatcaacccttc	D38162
69976	tcaagacaatcaacccttctctttt	D38162
69977	gcttaatatggcctatggcgtaaag	D31953
69978	taatatggcctatggcgtaaagaga	D31953
69979	caacaaagcccacaaatcctgaatt	D31953
69980	agcccacaaatcctgaatttctcac	D31953
69981	ccacaaatcctgaatttctcaccct	D31953
69982	acgaacaaaacatgcgcgcacacac	D31953
69983	tgcgcgcacacacatacacaaaaga	D31953
69984	gcgcacacacatacacaaaagagag	D31953
69985	gagacaaactttccaaggcttatat	D31953
69986	tttccaaggcttatattcaaccatg	D31953
69987	ttcaaccatggactttataagcccg	D31953
69988	attggattatcctgaggtgtaccag	D31953
69989	cccaatcaccattgacgggatgaca	D31953
69990	aatgaacatccctggtcacacaggg	D31953
69991	catccctggtcacacagggacaggc	D31953
69992	gtcccctgattctgatgagagtgtc	D31953
69993	ccctgattctgatgagagtgtcctc	D31953
69994	gagtgtcctctggcagctctttggc	D31953
69995	tggcccctttggcgcagtgaacaac	D31953
69996	ctatcgcctgggagacagagtgttg	D31953
69997	tctgaaaagttcgccttccaagctg	AA067335
69998	ttcgccttccaagctgaactgaaca	AA067335
69999	aggctcatcgccctaactgatgaaa	AA067335
70000	ctcatcgccctaactgatgaaaatg	AA067335
70001	atcgccctaactgatgaaaatgcac	AA067335
70002	gatgaaaatgcactcgctggaaatg	AA067335
70003	aatgcactcgctggaaatgaggagt	AA067335
70004	gacctgctgcatgtcacagacacga	AA067335
70005	ctgctgcatgtcacagacacgagtg	AA067335
70006	ctgcatgtcacagacacgagtgtag	AA067335
70007	catgtcacagacacgagtgtaggaa	AA067335
70008	gtcacagacacgagtgtaggaatga	AA067335

SEQ ID NO	sequence	DBAxnID
112545	gattcctcgctgggacatgtttttg	M86736
112546	gaactccacagtcctgggaaccctg	M86736
112547	tgaccctgccaggcacatcagtggg	X61600
112548	gtacaagaacttcatccagaactat	X61600
112549	taaacttgcacaatctaatggctgg	X61600
112550	gaccgaagacactttcatcgctgac	X61600
112551	agacactttcatcgctgaccttgtg	X61600
112552	ctgccgttcagagcgtctggcaaaa	X61600
112553	ccgttcagagcgtctggcaaaatac	X61600
112554	ggacaaagctgtctttgctggaaga	X61600
112555	caaagctgtctttgctggaagaaag	X61600
112556	taatccaaaggccaaatgaggagct	X61600
112557	ctccaggctttcacaggaaagacac	X61600
112558	aagacacaggccttcaagcccttct	X61600
112559	gaacttcatccagaactatcccgtg	X61600
112560	catccagaactatcccgtggtctcc	X61600
112561	ctttgaccaggatgactgggccaca	X61600
112562	gattgctcaggctgtggagaagaag	X61600
112563	caattgcctgctcctgaaggtcaac	X61600
112564	ttgcctgctcctgaaggtcaaccag	X61600
112565	cctgctcctgaaggtcaaccagatc	X61600
112566	catccaggcctgtaaacttgcacaa	X61600
112567	gcccctctaccagttagcccagaag	W13125
112568	ctctaccagttagcccagaagaagc	W13125
112569	ccctaggccacctcatgggtgtgct	W13125
112570	aggccacctcatgggtgtgctgagg	W13125
112571	ggagttcttcaccaagctgggtcta	W13125
112572	ttcttcaccaagctgggtctaaaga	W13125
112573	cttcaccaagctgggtctaaagaag	W13125
112574	tgaagttggcaactctggggtcttc	W13125
112575	ccgccctgagatgctcctgcctatg	W13125
112576	gctcctgcctatggggctccctgag	W13125
112577	tcctgcctatggggctccctgagaa	W13125
112578	ctgcctatggggctccctgagaatg	W13125
112579	ctaccagttagcccagaagaagccg	W13125
112580	gtttacaccagccaagtacttctct	W13125
112581	acaccagccaagtacttctctattg	W13125
112582	accagccaagtacttctctattgat	W13125
112583	cagccaagtacttctctattgatcg	W13125
112584	atgagacgctggacgccacgcacct	W13125
112585	agttccaccagattgagggtgtaat	W13125
112586	ttccaccagattgagggtgtaatag	W13125
112587	gcagatatccggtacgcctacaccc	M28312
112588	tacaccccagtcatggaaagcctct	M28312
112589	ttatctatcccttgcaaactggaga	M28312
112590	atcccttgcaaactggagagtgaca	M28312
112591	gactaccagagccgtcactttgctt	M28312
112592	cgtcactttgcttgcctgccacgga	M28312
112593	tttgcttgcctgccacggaatctag	M28312
112594	ccacggaatctaggcttgtgcactt	M28312
112595	tgcacttggagatcccttggggccc	M28312
112596	ctgaagcctgaacactgtctacttt	M28312
112597	catctttctttctcttagatggtga	M28312
112598	tctttctcttagatggtgaaataaa	M28312
112599	cacaagtcccagaaccgcagtgaag	M28312
112600	tcccagaaccgcagtgaagagtttc	M28312
112601	gagtttctcatcacgggccgcctaa	M28312
112602	ctcatcacgggccgcctaaggaacg	M28312
112603	tttcacatcaatgcctgcagcttct	M28312
112604	atcaatgcctgcagcttcttggttc	M28312
112605	cgtactctgagccctgctcagcaaa	M28312
112606	ctgagccctgctcagcaaagagttt	M28312
112607	acacccctgctacagtccattgtgg	W13136
112608	caccctgctacagtccattgtggt	W13136
112609	gatttatccactgacccagttcttg	W13136
112610	atttatccactgacccagttcttgc	W13136
112611	tttatccactgacccagttcttgcc	W13136
112612	tcacttccaaggaacgatgagaggt	W13136

TABLE 1

SEQ ID NO	sequence	DBAxnID
27405	gagtggatccctcgtgtgcttcatg	W78338
27406	ggatccctcgtgtgcttcatggagg	W78338
27407	gatccctcgtgtgcttcatggaggc	W78338
27408	cctcgtgtgcttcatggaggcaagg	W78338
27409	ctcgtgtgcttcatggaggcaaggc	W78338
27410	ttcatggaggcaaggcatggccaag	W78338
27411	atgaaggcaagcacctcgtacactt	W78338
27412	tgaaggcaagcacctcgtacacttt	W78338
27413	gctgcatcttatcacccggaacctg	AA009150
27414	gcatcttatcacccggaacctgcag	AA009150
27415	aaccatcctgtttgcagacctccat	AA009150
27416	catcctgtttgcagacctccatgca	AA009150
27417	agacctccatgcatacctggacaac	AA009150
27418	cctccatgcatacctggacaacatg	AA009150
27419	tgcatacctggacaacatgaaagcc	AA009150
27420	caacatgaaagccccctgggagctt	AA009150
27421	ggagcttctagaacttcgaaccagt	AA009150
27422	tctagaacttcgaaccagttactat	AA009150
27423	agaacttcgaaccagttactatgag	AA009150
27424	acttcgaaccagttactatgagaat	AA009150
27425	ggccaccacgggcaagccacacgtg	AA009150
27426	gggcaagccacacgtggcttacttt	AA009150
27427	ggcttactttgtacccatgtccaag	AA009150
27428	ttactttgtacccatgtccaagatc	AA009150
27429	acccatgtccaagatcgctgacttt	AA009150
27430	catgtccaagatcgctgacttttttg	AA009150
27431	caagatcgctgacttttttgaaggca	AA009150
27432	tgaggtaaccatcctgtttgcagac	AA009150
27433	atcagtgtgtctatgccgcacacaa	D43796
27434	atgccgcacacaactctgtcgtaat	D43796
27435	tgataggcaccgtgctgtgtctttg	D43796
27436	gcaccgtgctgtgtctttgccaaat	D43796
27437	gtctttgccaaataatgctttataa	D43796
27438	tcagtgcaacactgtggatgctatt	D43796
27439	cttaagacaacgagcacacatgtgc	D43796
27440	aagtgttcatggctcaccttgttct	D43796
27441	tcatggctcaccttgttctacacaa	D43796
27442	ctcaccttgttctacacaaaagatt	D43796
27443	ttgttctacacaaaagattctgctt	D43796
27444	tacacaaaagattctgcttgaagct	D43796
27445	cacacaactctgtcgtaatagatga	D43796
27446	agtcagctgactgcagtgttgagga	D43796
27447	aatgacccgattctcagccaattct	D43796
27448	ccgattctcagccaattcttgaata	D43796
27449	ctcagccaattcttgaataaactcc	D43796
27450	cccagcgtatcttatggtaaaagat	D43796
27451	tgctctctaaacaggcttcctttac	D43796
27452	aatctgttagctgaggcatagagga	D43796
27453	cattccatctttccacataacacta	U13262
27454	tccatctttccacataacactatta	U13262
27455	ttcacttctataggagcagatgcat	U13262
27456	catagcatatcaaacacattggatc	U13262
27457	agcatatcaaacacattggatccca	U13262
27458	atatcaaacacattggatcccacga	U13262
27459	aacacattggatcccacgatgttag	U13262
27460	acattggatcccacgatgttagata	U13262
27461	gccatgtctcctttacctgcagaag	U13262
27462	atgtctcctttacctgcagaagaat	U13262
27463	tctcctttacctgcagaagaatagc	U13262
27464	cctttacctgcagaagaatagcatg	U13262
27465	ttatttccaataattccaatttcat	U13262
27466	tttccaataattccaatttcatata	U13262
27467	ccaataattccaatttcatatagaa	U13262
27468	tctagtttccagccattaaaatgaa	U13262
27469	agtttccagccattaaaatgaactg	U13262
27470	atatatgtgagtcccttgctattca	U13262
27471	cccttgctattcacttctataggag	U13262
27472	ttgctattcacttctataggagcag	U13262

SEQ ID NO	sequence	DBAxnID
70009	ttccaagctgaactgaacaggatga	AA067335
70010	atgaaacttatcatcaattctttgt	AA067335
70011	atcatcaattctttgtataacgata	AA067335
70012	atcaattctttgtataacgataaag	AA067335
70013	attttcctgagagaactgatttcaa	AA067335
70014	ctgatttcaaatgcttctgatgctt	AA067335
70015	atttcaaatgcttctgatgctttag	AA067335
70016	gcttctgatgctttagacaagataa	AA067335
70017	cggattcccaggcagctggtggcaa	D28873
70018	agaccgatcgcgactgctccgggac	D28873
70019	gtccaaaggctgctttggcctcaag	D28873
70020	ccaaaggctgctttggcctcaagct	D28873
70021	aaaggctgctttggcctcaagctgg	D28873
70022	aggctgctttggcctcaagctggac	D28873
70023	tgctttggcctcaagctggaccgga	D28873
70024	ctttggcctcaagctggaccggatc	D28873
70025	ttggcctcaagctggaccggatcgg	D28873
70026	tcaagctggaccggatcggctccat	D28873
70027	aagctggaccggatcggctccatga	D28873
70028	tggaccggatcggctccatgagcgg	D28873
70029	accgatcgcgactgctccgggacct	D28873
70030	ctccatgagcggtctgggatgttag	D28873
70031	ctccgggacctgcgtgtggacacca	D28873
70032	tgtggacaccaagtcccgggctgct	D28873
70033	tggacaccaagtcccgggctgcttg	D28873
70034	gacaccaagtcccgggctgcttggg	D28873
70035	ccaacgcgcgcaaatacaaaggcgg	D28873
70036	aacgcgcgcaaatacaaaggcggca	D28873
70037	aagggcttgtccaaaggctgctttg	D28873
70038	cagcggcacagcgatccacagcggg	
70039	agcggcacagcgatccacagcggga	
70040	ccagcagcagcggctcatctacagt	
70041	agcggctcatctacagtggcaagca	
70042	gcggctcatctacagtggcaagcaa	
70043	gcggcacagcgatccacagcgggag	
70044	cggcacagcgatccacagcgggaga	
70045	gcacagcgatccacagcgggagaag	
70046	cagcgatccacagcgggagaagcag	
70047	agcgatccacagcgggagaagcagc	
70048	gcgatccacagcgggagaagcagca	
70049	cgatccacagcgggagaagcagcac	
70050	cccagcagcagcggctcatctacag	
70051	cagcggcacagcgatccacagcggg	
70052	agcggcacagcgatccacagcggga	
70053	ccccagcagcagcggctcatctaca	
70054	cccagcagcagcggctcatctacag	
70055	ccagcagcagcggctcatctacagt	
70056	agcggctcatctacagtggcaagca	
70057	gcggctcatctacagtggcaagcaa	
70058	gcggcacagcgatccacagcgggag	
70059	cggcacagcgatccacagcgggaga	
70060	gcacagcgatccacagcgggagaag	
70061	cagcgatccacagcgggagaagcag	
70062	agcgatccacagcgggagaagcagc	
70063	gcgatccacagcgggagaagcagca	
70064	cgatccacagcgggagaagcagcac	
70065	cccccagcagcagcggctcatctac	
70066	cagcggcacagcgatccacagcggg	
70067	agcggcacagcgatccacagcggga	
70068	ccccagcagcagcggctcatctaca	
70069	cccagcagcagcggctcatctacag	
70070	ccagcagcagcggctcatctacagt	
70071	agcggctcatctacagtggcaagca	
70072	gcggctcatctacagtggcaagcaa	
70073	gcggcacagcgatccacagcgggag	
70074	cggcacagcgatccacagcgggaga	
70075	gcacagcgatccacagcgggagaag	
70076	cagcgatccacagcgggagaagcag	

SEQ ID NO	sequence	DBAxnID
112613	cacttccaaggaacgatgagaggtt	W13136
112614	agaggttctctcagctgcctggagt	W13136
112615	gaggttctctcagctgcctggagtc	W13136
112616	acccctgctacagtccattgtggtg	W13136
112617	cccctgctacagtccattgtggtgg	W13136
112618	tcccacgctctctggatttatccac	W13136
112619	cccacgctctctggatttatccact	W13136
112620	ccacgctctctggatttatccactg	W13136
112621	cacgctctctggatttatccactga	W13136
112622	tggatttatccactgacccagttct	W13136
112623	ggatttatccactgacccagttctt	W13136
112624	tccaagatctgagcagggtgccaga	AA008681
112625	agatctgagcagggtgccagaacag	AA008681
112626	agtacatgttccagaaggatgaata	AA008681
112627	tacatgttccagaaggatgaatact	AA008681
112628	actgcatcctgatcctgggcctgga	AA008681
112629	tgcatcctgatcctgggcctggaca	AA008681
112630	tcctgatcctgggcctggacaatgc	AA008681
112631	ctgatcctgggcctggacaatgctg	AA008681
112632	gatcctgggcctggacaatgctggg	AA008681
112633	tgagtctatccaaaatcaccactac	AA008681
112634	agtctatccaaaatcaccactaccg	AA008681
112635	gtctaaacattggcactgtggacgt	AA008681
112636	ggatgtacacgctgctttcgggatt	AA008681
112637	atgtacacgctgctttcgggattgt	AA008681
112638	gtacacgctgctttcgggattgtac	AA008681
112639	acacgctgctttcgggattgtacaa	AA008681
112640	gctgctttcgggattgtacaagtac	AA008681
112641	tgctttcgggattgtacaagtacat	AA008681
112642	tgtacaagtacatgttccagaagga	AA008681
112643	tacaagtacatgttccagaaggatg	AA008681
112644	ctccgtcctgaaatgtccaagaaca	Z37107
112645	aaccagattctcatcaagtggctgc	Z37107
112646	accagcatcgttcttttgccagcca	Z37107
112647	atcgttcttttgccagccagtgatt	Z37107
112648	tcttttgagtatgcctgtgccatca	Z37107
112649	gagtatgcctgtgccatcagagaag	Z37107
112650	gcctgtgccatcagagaagagatcc	Z37107
112651	tgcaaccaaacccaagcctgctctt	Z37107
112652	caagcctgctctttttgaagcagct	Z37107
112653	tgctctttttgaagcagctgattgg	Z37107
112654	ttttgaagcagctgattggagagta	Z37107
112655	tcaataaagctaaacctcagggctc	Z37107
112656	attctcatcaagtggctgcagactg	Z37107
112657	cagaacccatcagtgacctccaaga	Z37107
112658	ccatcagtgacctccaagatttagc	Z37107
112659	gtgacctccaagatttagccactgg	Z37107
112660	tccaagatttagccactggggacac	Z37107
112661	agtttctggaacacagcctgatcta	Z37107
112662	tggaacacagcctgatctacaagta	Z37107
112663	acagcctgatctacaagtaccagca	Z37107
112664	gagagctgccatctcatacagcagg	AA013892
112665	agctgccatctcatacagcaggcag	AA013892
112666	gtatggtgttcccactagtgagtgg	AA013892
112667	tggtgttcccactagtgagtgggcc	AA013892
112668	cgcagtggtctccgagctgaagaag	AA013892
112669	ggtctccgagctgaagaagcggccc	AA013892
112670	gtcaccaagcttcacaatgcccgta	AA013892
112671	aagcttcacaatgcccgtagctgtg	AA013892
112672	cttcacaatgcccgtagctgtgatg	AA013892
112673	cacaatgcccgtagctgtgatgaac	AA013892
112674	aatgcccgtagctgtgatgaacacg	AA013892
112675	tgtgatgaacacgttggcgggcttg	AA013892
112676	tgccatctcatacagcaggcagcct	AA013892
112677	cttgatgtctcggtgcatcacacgt	AA013892
112678	catctcatacagcaggcagcctagg	AA013892
112679	atacagcaggcagcctagggaccag	AA013892
112680	caggcagcctagggaccagatgtct	AA013892

TABLE 1

SEQ ID NO	sequence	DBAxnID
27473	tctggccccagctcagcttctcagg	AA051583
27474	ggccccagctcagcttctcaggaca	AA051583
27475	gatagcatctcctgtctttttcccat	AA051583
27476	ccatcaccacagcagaatccttttt	AA051583
27477	tctgtttcgtccgtcctctttctag	AA051583
27478	tccgtcctctttctagaacatactg	AA051583
27479	gtcctctttctagaacatactggta	AA051583
27480	ctagaacatactggtacttgtagga	AA051583
27481	gaacatactggtacttgtaggatgt	AA051583
27482	ttcctgtggtcctagctggcactgg	AA051583
27483	ctggcactggctcattacctacaaa	AA051583
27484	gcactggctcattacctacaaaacc	AA051583
27485	agctcagcttctcaggacaggaaaa	AA051583
27486	gccagctacagattccaaccctgaa	AA051583
27487	agctacagattccaaccctgaacag	AA051583
27488	agattccaaccctgaacagatagca	AA051583
27489	ttccaaccctgaacagatagcatct	AA051583
27490	caaccctgaacagatagcatctcct	AA051583
27491	tgaacagatagcatctcctgtcttt	AA051583
27492	acagatagcatctcctgtctttcc	AA051583
27493	gtgatctgtatcccttagccacccta	L36314
27494	accctatcaagaacaccaacgatgc	L36314
27495	tttggagcttctggaaccaattgaa	L36314
27496	cttcatttcccgtgcctatgatgct	L36314
27497	tcatttcccgtgcctatgatgctac	L36314
27498	tttcccgtgcctatgatgctaccac	L36314
27499	ttcccgtgcctatgatgctaccacg	L36314
27500	tcccgtgcctatgatgctaccacgc	L36314
27501	cccgtgcctatgatgctaccacgca	L36314
27502	ccgtgcctatgatgctaccacgcac	L36314
27503	cgtgcctatgatgctaccacgcact	L36314
27504	actaacagcagtacatattatgtaa	L36314
27505	ctcctttgcacataatgtggcagca	L36314
27506	taatgtggcagcacagggcaagtat	L36314
27507	tgtggcagcacagggcaagtatatt	L36314
27508	gaaatcagaccggctttggagcttc	L36314
27509	aaatcagaccggctttggagcttct	L36314
27510	aatcagaccggctttggagcttctg	L36314
27511	atcagaccggctttggagcttctgg	L36314
27512	cggctttggagcttctggaaccaat	L36314
27513	cgcctggcctgtggtggtcttcctg	D42124
27514	aggctccatattcttggcctccagg	D42124
27515	atgctgaccacgcagagacctggca	D42124
27516	ccacttggcaatttcatttcaatat	D42124
27517	agatcacagactgttggccccctgt	D42124
27518	tcacagactgttggccccctgtctg	D42124
27519	tttattgctgtacatgttgccgtga	D42124
27520	gctgtacatgttgccgtgactgctt	D42124
27521	gtacatgttgccgtgactgcttttg	D42124
27522	gccgtgactgcttttgtatctttgc	D42124
27523	gtgactgcttttgtatctttgcaat	D42124
27524	actgcttttgtatctttgcaataaa	D42124
27525	catattcttggcctccagggtagac	D42124
27526	attcttggcctccagggtagacagg	D42124
27527	ggctgtcagtgctacccggagcacc	D42124
27528	cacccgtgcagggcacctgcctgga	D42124
27529	ccatggcactgtgtcactgaaattt	D42124
27530	tggcactgtgtcactgaaatttcat	D42124
27531	gtcttgttccttttgacttctgaaag	D42124
27532	ggacacatgctgaccacgcagagac	D42124
27533	gcgccccagaaggaccagcagaagg	AA123361
27534	gctgcccaagctgattccatccggc	AA123361
27535	atcaaagcaactacgtgttcgtgtt	AA123361
27536	gcaactacgtgttcgtgtttctcgg	AA123361
27537	gtgttcgtgtttctcggcctcatcc	AA123361
27538	gtgtttctcggcctcatcctgtact	AA123361
27539	gtttctcggcctcatcctgtactgc	AA123361
27540	ttctcggcctcatcctgtactgcgt	AA123361

SEQ ID NO	sequence	DBAxnID
70077	agcgatccacagcgggagaagcagc	
70078	gcgatccacagcgggagaagcagca	
70079	cgatccacagcgggagaagcagcac	
70080	cccccagcagcagcggctcatctac	
70081	gttctgcagaagccagctctgttct	D14716
70082	gccctcatgcattgttttagagtca	D14716
70083	tagtgttccaatgctgctcagtttg	D14716
70084	tccaatgctgctcagtttgactgat	D14716
70085	gctgctcagtttgactgataaatca	D14716
70086	taaatcatttaaaccccatcttcat	D14716
70087	atttaaaccccatcttcatatgtat	D14716
70088	taaaccccatcttcatatgtatgag	D14716
70089	accccatcttcatatgtatgagtac	D14716
70090	agaatccttcacctactaaccagat	D14716
70091	ctaaccagatcaagcagcaacaaac	D14716
70092	tcaagcagcaacaaaccagccagcc	D14716
70093	ctcatgcattgttttagagtcattt	D14716
70094	atttgccatttttccactcacttatc	D14716
70095	tgccatttttccactcacttatctta	D14716
70096	cccctgtgtagcttccacagagaaa	D14716
70097	ctgtgtagcttccacagagaaatta	D14716
70098	tgtagcttccacagagaaattatgc	D14716
70099	atttcataaaaccaatctttgtcat	D14716
70100	tcataaaaccaatctttgtcatatt	D14716
70101	aaggcatgcacaactttgcatggag	D32072
70102	tgcacaactttgcatggagcagtaa	D32072
70103	acaatctgctaatctttagtcatat	D32072
70104	tgctaatctttagtcatatagaaac	D32072
70105	tagaaacataaatctctcatgtgag	D32072
70106	cctctggcccacttacataggcaac	D32072
70107	gcccacttacataggcaacttccct	D32072
70108	ttacataggcaacttcccttacaca	D32072
70109	ttacacattttggggaacagtctgt	D32072
70110	tatttactcaactgaagtctatttc	D32072
70111	taatttctctatatatcccaacctg	D32072
70112	ctctatatatcccaacctggggaga	D32072
70113	aagcctgtggggctatatgaccaga	D32072
70114	ctatatgaccagagacagagaatta	D32072
70115	cttgtctcatctgaatgaacaatct	D32072
70116	acaatcttaaaccaatggctcagag	D32072
70117	ttaaaccaatggctcagagagttga	D32072
70118	ttcttctgttcaaacttcgacaagc	D32072
70119	tgttcaaacttcgacaagctgtaga	D32072
70120	aacttcgacaagctgtagacaatct	D32072
70121	acggttatgcgtccctgtgtccaca	U32394
70122	tgcacaacgagctggagaagcgcag	U32394
70123	agctccaggggctgccaggagctag	U32394
70124	cagacagcttggactcttcaggcct	U32394
70125	acagcttggactcttcaggcctgtc	U32394
70126	gcttggactcttcaggcctgtcctc	U32394
70127	cctctgagcgctcagactcagacca	U32394
70128	ctgagcgctcagactcagaccaaga	U32394
70129	gctcagactcagaccaagaggatct	U32394
70130	tggagaacctggtgtttgggactga	U32394
70131	agctcctacagagcttcagcgctgg	U32394
70132	agcacagctactcacacagcacctg	U32394
70133	cccagctgaagcggtgcttagagca	U32394
70134	acacagcacctgcgcctggctatga	U32394
70135	agctgaagcggtgcttagagcaact	U32394
70136	tgaggcagcagatgcccctgggagt	U32394
70137	agatgcccctgggagttgactgtac	U32394
70138	gatacactacactaagcctcctgcg	U32394
70139	ttcgcagcaaacagcagagcctgca	U32394
70140	agcagcagctggagcagctccaggg	U32394
70141	agcagctccaggggctgccaggagc	U32394
70142	tctggagccttaggcagcctattca	AA068250
70143	ggagccttaggcagcctattcagga	AA068250
70144	tctcaaccgagtctggtatctatgt	AA068250

SEQ ID NO	sequence	DBAxnID
112681	gccattctcatggattctctcgggt	AA013892
112682	attctcatggattctctcgggtgac	AA013892
112683	ctcatggattctctcgggtgacatg	AA013892
112684	atggattctctcgggtgacatgtag	AA013892
112685	gttgcacccaggcgtgttggcgagc	W98785
112686	ttgcacccaggcgtgttggcgagcc	W98785
112687	aatttgattcccagctcttccacac	W98785
112688	tttgattcccagctcttccacacaa	W98785
112689	ttgattcccagctcttccacacaat	W98785
112690	tgattcccagctcttccacacaata	W98785
112691	ccagctcttccacacaataggtgtg	W98785
112692	cagctcttccacacaataggtgtgg	W98785
112693	agctcttccacacaataggtgtgga	W98785
112694	ctcttccacacaataggtgtggaat	W98785
112695	tcttccacacaataggtgtggaatt	W98785
112696	cttccacacaataggtgtggaattt	W98785
112697	cgtccagtgtgtgtctgcaagataa	W98785
112698	gtccagtgtgtgtctgcaagataat	W98785
112699	aattcttcttggagatggtggagtt	W98785
112700	attcttcttggagatggtggagttg	W98785
112701	agagttctcttatgaacagatatgt	W98785
112702	ttctcttatgaacagatatgtaacc	W98785
112703	taaatttgattcccagctcttccac	W98785
112704	aaatttgattcccagctcttccaca	W98785
112705	cagtcctgttgaaaacccattgtcg	W77029
112706	tcctgttgaaaacccattgtcggat	W77029
112707	atctctcaagcagcaaagtttgatc	W77029
112708	gatccttcttcgaaaatctatgaaa	W77029
112709	ccttcttcgaaaatctatgaaatca	W77029
112710	atctatgaaatcagcaaccgctgga	W77029
112711	tatgaaatcagcaaccgctggaagc	W77029
112712	atcagcaaccgctggaagctggcca	W77029
112713	agcaaccgctggaagctggccagcc	W77029
112714	aagctggccagccaggtccaggtcc	W77029
112715	ctggccagccaggtccaggtccaga	W77029
112716	gctgagcaaacagctgcccgggagg	W77029
112717	ggatgttcctgccgttctctggaac	W77029
112718	tgttcctgccgttctctggaacaca	W77029
112719	tgccgttctctggaacacaaggccc	W77029
112720	cgttctctggaacacaaggcccaca	W77029
112721	tctctggaacacaaggcccacatct	W77029
112722	gaacacaaggcccacatctctcaag	W77029
112723	aaggcccacatctctcaagcagcaa	W77029
112724	cacatctctcaagcagcaaagtttg	W77029
112725	tctctagctcgcggcctgtgtctat	W13162
112726	tctagctcgcggcctgtgtctatgg	W13162
112727	agctcttagccgagcgtaagatccc	W13162
112728	ctcttagccgagcgtaagatcccct	W13162
112729	tcttagccgagcgtaagatcccctg	W13162
112730	gccgagcgtaagatcccctgcttcg	W13162
112731	gagcgtaagatcccctgcttcgaga	W13162
112732	agcgtaagatcccctgcttcgagaa	W13162
112733	cgtaagatcccctgcttcgagaatg	W13162
112734	gtaagatcccctgcttcgagaatgg	W13162
112735	aagatcccctgcttcgagaatggct	W13162
112736	agatcccctgcttcgagaatggctg	W13162
112737	ctagctcgcggcctgtgtctatggt	W13162
112738	agctcgcggcctgtgtctatggtct	W13162
112739	cggcctgtgtctatggtctggcccg	W13162
112740	ggcctgtgtctatggtctggcccga	W13162
112741	aagcgtccagctgcccgggaccgat	W13162
112742	tccccggtgtatggcgccgcaggaa	W13162
112743	ccagagctcttagccgagcgtaaga	W13162
112744	cagagctcttagccgagcgtaagat	W13162
112745	cctctggagcccttcagacagctgc	AA103862
112746	ctggagcccttcagacagctgcgga	AA103862
112747	tttgctttgcccatcctgaatgccc	AA103862
112748	tgctttgcccatcctgaatgccctg	AA103862

TABLE 1

SEQ ID NO	sequence	DBAxnID
27541	ctcggcctcatcctgtactgcgtgg	AA123361
27542	gcctcatcctgtactgcgtggtgac	AA123361
27543	ctcatcctgtactgcgtggtgacat	AA123361
27544	catcctgtactgcgtggtgacatct	AA123361
27545	ctgattccatccggcgcaggcgaga	AA123361
27546	tggtgacatctcccatgctgctggt	AA123361
27547	gattccatccggcgcaggcgagagt	AA123361
27548	cttcgtggaccagcaacgtttctcg	AA123361
27549	tctcgcgaccccgcaatgtgggaga	AA123361
27550	tcgcgaccccgcaatgtgggagagc	AA123361
27551	cagcgcctggtacgcaacgtggagt	AA123361
27552	gcgcctggtacgcaacgtggagtat	AA123361
27553	gcctggtacgcaacgtggagtatta	AA123361
27554	tggggcctcagcacatctggcagaa	W78327
27555	ggggcctcagcacatctggcagaaa	W78327
27556	gcccgatctcagagctcagacaaga	W78327
27557	cccgatctcagagctcagacaagag	W78327
27558	ccgatctcagagctcagacaagaga	W78327
27559	gatctcagagctcagacaagagagc	W78327
27560	agacaagagagcgtcccctacaagt	W78327
27561	gacaagagagcgtcccctacaagtg	W78327
27562	caagagagcgtcccctacaagtggt	W78327
27563	aagagagcgtcccctacaagtggtg	W78327
27564	agagagcgtcccctacaagtggtgg	W78327
27565	agagcgtcccctacaagtggtggag	W78327
27566	gggcctcagcacatctggcagaaat	W78327
27567	gcctcagcacatctggcagaaatac	W78327
27568	cctcagcacatctggcagaaataca	W78327
27569	ctcagcacatctggcagaaatacac	W78327
27570	ctctagaaatgaaccctcaataaag	W78327
27571	tctagaaatgaaccctcaataaaga	W78327
27572	tcctgcccgatctcagagctcagac	W78327
27573	ctgcccgatctcagagctcagacaa	W78327
27574	atcaacaaggaccgagcaaaagacg	M28449
27575	ggctctaaatcccaggcctcatctc	M28449
27576	tgctcttcgtgtggcagatcattct	M28449
27577	tcttcgtgtggcagatcattctgcc	M28449
27578	ggcagatcattctgccaaatacttg	M28449
27579	agatcattctgccaaatacttgaac	M28449
27580	tgccaaatacttgaacactgtgttt	M28449
27581	atacttgaacactgtgttttattgt	M28449
27582	tttgtgactcaaacttctgtgctgg	M28449
27583	actcaaacttctgtgctgggtgaag	M28449
27584	caaacttctgtgctgggtgaagtac	M28449
27585	gtacccattgtgattgtggaagcta	M28449
27586	gctcttaggcctgcggctttgatgg	M28449
27587	tacccattgtgattgtggaagctag	M28449
27588	ttgtaagctttccattttatagaag	M28449
27589	gctttccattttatagaaggcacac	M28449
27590	atagaaggcacacacacacacaagg	M28449
27591	cattagcgctattggctgtatgtgc	M28449
27592	ataatgcacaactgttgatgactgg	M28449
27593	atgcacaactgttgatgactggctg	M28449
27594	ttaatttgctcttcgtgtggcagat	M28449
27595	cgaagccatctatgagtgcacagcc	W78500
27596	agccatctatgagtgcacagccacg	W78500
27597	gttcccgactatcgacatgggacct	W78500
27598	tatcgacatgggacctcagctgaag	W78500
27599	cgacatgggacctcagctgaaggtg	W78500
27600	catgggacctcagctgaaggtggtg	W78500
27601	cccagaccctgagatctcttggttc	W78500
27602	agaccctgagatctcttggttcaaa	W78500
27603	tcctgtggaccctgctgcaagcaac	W78500
27604	ccctgctgcaagcaacggtcgtatc	W78500
27605	tgcaagcaacggtcgtatcaaacag	W78500
27606	tcgtatcaaacagctgcgatcaggt	W78500
27607	tgagtgcacagccacgaacagtctc	W78500
27608	caaacagctgcgatcaggtgcattg	W78500

SEQ ID NO	sequence	DBAxnID
70145	caaccgagtctggtatctatgtttg	AA068250
70146	tttgcgtaatatcccttggacataa	AA068250
70147	gcgtaatatcccttggacataatat	AA068250
70148	taatatcccttggacataatatgtg	AA068250
70149	tatcccttggacataatatgtgagc	AA068250
70150	ataatatgtgagcacacgggacata	AA068250
70151	atatgtgagcacacgggacatatat	AA068250
70152	ggacatatatttccactttgaatgt	AA068250
70153	tggagacccaaggagccgagaaaga	AA068250
70154	ggcagcctattcaggacaccaacga	AA068250
70155	agcctattcaggacaccaacgatgg	AA068250
70156	ctattcaggacaccaacgatggcaa	AA068250
70157	aggacaccaacgatggcaaattctg	AA068250
70158	acaccaacgatggcaaattctggca	AA068250
70159	ttattgattccacggacccagtctc	AA068250
70160	ttgattccacggacccagtctcaac	AA068250
70161	acccagtctcaaccgagtctggtat	AA068250
70162	aagacgacctggaagtcattcatct	AA067615
70163	acctggaagtcattcatctgattga	AA067615
70164	caggaaatgccccttactgcgctcc	AA067615
70165	ggaaatgccccttactgcgctcctg	AA067615
70166	aaatgccccttactgcgctcctgag	AA067615
70167	ctgcgctcctgaggaacctgggaaa	AA067615
70168	atgactgctaattcagtgcttgaac	AA067615
70169	gactgctaattcagtgcttgaacca	AA067615
70170	ctgctaattcagtgcttgaaccagg	AA067615
70171	taattcagtgcttgaaccaggaaac	AA067615
70172	attcagtgcttgaaccaggaaactc	AA067615
70173	cttgaaccaggaaactctgaagtat	AA067615
70174	ggaagtcattcatctgattgaagag	AA067615
70175	gtcattcatctgattgaagagcatc	AA067615
70176	tagggaacacctgctgacaaatcac	AA067615
70177	gggaacacctgctgacaaatcactt	AA067615
70178	gaacacctgctgacaaatcacttga	AA067615
70179	acctgctgacaaatcacttgaagtc	AA067615
70180	ctgctgacaaatcacttgaagtcta	AA067615
70181	gttacaggaaatgccccttactgcg	AA067615
70182	tgctgcccttcgacggcgacttcgc	U32395
70183	acaggtcttcacacaacgaactaga	U32395
70184	gtcacactactctgagccttctgaa	U32395
70185	aggaacagcttcagcgggaacatcg	U32395
70186	agcttcagcgggaacatcgcttcct	U32395
70187	agcgggaacatcgcttcctaaagag	U32395
70188	ctgctgtgtccacagatgactcaga	U32395
70189	tgtccacagatgactcagagcaaga	U32395
70190	agctggacagtgctggcagcagcag	U32395
70191	accactacagcctacagagcagtgg	U32395
70192	tacagagcagtggctgcagcgacag	U32395
70193	gctgcagcgacagcagctatgggca	U32395
70194	cttcacacaacgaactagaaaagca	U32395
70195	gagctaaactcaggctctacttgga	U32395
70196	aactcaggctctacttggagcagct	U32395
70197	ggctctacttggagcagctcaagca	U32395
70198	agcagctcaagcagcttggtcccct	U32395
70199	tcaagcagcttggtcccctgggccc	U32395
70200	ctgacagcacacgtcacactactct	U32395
70201	gcacacgtcacactactctgagcct	U32395
70202	attctaaaatccaaggtagatagag	M68859
70203	ggacatcatttcatgttctttataa	M68859
70204	tgttttaacaccaacactgtaacat	M68859
70205	cagttttactgcattttcacaacat	M68859
70206	ttttactgcattttcacaacatatc	M68859
70207	attttcacaacatatcagatttcac	M68859
70208	acaacatatcagatttcaccaaata	M68859
70209	cagatttcaccaaatatatgcctta	M68859
70210	atttcaccaaatatatgccttacta	M68859
70211	ccaaatatatgccttactattgtat	M68859
70212	tattactgctttactgtgtatctca	M68859

SEQ ID NO	sequence	DBAxnID
112749	gctttgcccatcctgaatgccctgc	AA103862
112750	tttgcccatcctgaatgccctgctg	AA103862
112751	ttgcccatcctgaatgccctgctgg	AA103862
112752	gcccatcctgaatgccctgctggag	AA103862
112753	atcctgaatgccctgctggagacgc	AA103862
112754	cctgaatgccctgctggagacgccc	AA103862
112755	ctgaatgccctgctggagacgcccc	AA103862
112756	tgccctgctggagacgccccagcga	AA103862
112757	tggagcccttcagacagctgcggaa	AA103862
112758	agcccttcagacagctgcggaagag	AA103862
112759	cccttcagacagctgcggaagagga	AA103862
112760	ggcaaagcacctaagatccagatcg	AA103862
112761	caaagcacctaagatccagatcgaa	AA103862
112762	agcacctaagatccagatcgaagct	AA103862
112763	gcacctaagatccagatcgaagcta	AA103862
112764	tgcctttgctttgcccatcctgaat	AA103862
112765	ccaacacaagctgaccctgtccgaa	
112766	acacaagctgaccctgtccgaagta	
112767	caggccctgtgtaataccacccaga	
112768	ggccctgtgtaataccacccagaat	
112769	gccctgtgtaataccacccagaata	
112770	gccgggaccatttgggcttgcaaca	
112771	tatggccagtttgagagaaaaacca	
112772	agagagccggtgtcattaactctgg	
112773	gagagccggtgtcattaactctggc	
112774	cacaagctgaccctgtccgaagtaa	
112775	ggactctgcgtaggagcagttccca	
112776	gactctgcgtaggagcagttcccaa	
112777	actctgcgtaggagcagttcccaaa	
112778	ctctgcgtaggagcagttcccaaaa	
112779	tctgcgtaggagcagttcccaaaac	
112780	ttcccaaaacccatcaggccctgtg	
112781	tcaggccctgtgtaataccacccag	
112782	gttggcctcaattggttctttcaga	M22115
112783	ctcaattggttctttcagagttaag	M22115
112784	atgtcgcacaatgttctgatgtccc	M22115
112785	gttctgatgtccctgaaatatcaca	M22115
112786	atgtccctgaaatatcacactgagt	M22115
112787	ctgaaatatcacactgagttctatc	M22115
112788	ttctatcagttattctttgtgagcc	M22115
112789	ttctttgtgagcctatgatagtctc	M22115
112790	tagtctccatttactgtacaatcat	M22115
112791	caatcatgaacagctctgagatcct	M22115
112792	gctctgagatcctggagtgatgtgg	M22115
112793	agatcctggagtgatgtggtccaga	M22115
112794	agcactttgcctgtgccaggtcttc	M22115
112795	gcttctctggccaccgtgcatttaa	M22115
112796	ggtattcattctttcagtcaccctt	M22115
112797	tgtcttgtatcatggctggatccag	M22115
112798	gtatcatggctggatccagtgtatt	M22115
112799	gtgtattccagctaattgttaatgt	M22115
112800	tcgtgactagtcttctgcatgtcgc	M22115
112801	ctagtcttctgcatgtcgcacaatg	M22115
112802	cccaacagttccagcaactacaggc	M33884
112803	aacagttccagcaactacaggccgc	M33884
112804	atgacctcaaagctgttgaagaatc	M33884
112805	cttcgctgtctgaggtagtcttgca	M33884
112806	tagtcttgcagaaccgcagaggctt	M33884
112807	tcttgcagaaccgcagaggcttaga	M33884
112808	gaggcctttgcgcagccctaaaaga	M33884
112809	gcctttgcgcagccctaaaagaaga	M33884
112810	tttgcgcagccctaaaagaagagtg	M33884
112811	agtgctgcttctatgccgaccatac	M33884
112812	atgccgaccatacaggattagttag	M33884
112813	ttatgggccctctgatagtacttttt	M33884
112814	agcaactacaggccgccatgcataa	M33884
112815	aactacaggccgccatgcataatga	M33884
112816	tacaggccgccatgcataatgacct	M33884

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27609	gtgcacagccacgaacagtctcggg	W78500	70213	tactgctttactgtgtatctcaata	M68859	112817	aggccgccatgcataatgacctcaa	M33884
27610	agccacgaacagtctcggggagatc	W78500	70214	ttcatgttctttataaccatcaagt	M68859	112818	ccgccatgcataatgacctcaaagc	M33884
27611	caacacaagtgccaagctgtcagtg	W78500	70215	atgttctttataaccatcaagtatt	M68859	112819	ccatgcataatgacctcaaagctgt	M33884
27612	cacaagtgccaagctgtcagtgctt	W78500	70216	atcatcacatggcatgtatcatcat	M68859	112820	tgcataatgacctcaaagctgttga	M33884
27613	caagctgtcagtgcttgaagaggac	W78500	70217	catgtatcatcattgtctccaggta	M68859	112821	ataatgacctcaaagctgttgaaga	M33884
27614	gctgtcagtgcttgaagaggaccag	W78500	70218	gtatcatcattgtctccaggtactg	M68859	112822	gcctcagcactcatttctgtgtggc	AA073580
27615	ccagctgccgtctgggttcccgact	W78500	70219	ttgtctccaggtactggactcttac	M68859	112823	aggcgctatgctttcccagatctct	AA073580
27616	tctactcctttactcttgagccccg	U35885	70220	tctccaggtactggactcttacttg	M68859	112824	cagtctagaaggcccaactgccacc	AA073580
27617	ctcttgagccccgagttatcgagga	U35885	70221	ggtactggactcttacttgagtatc	M68859	112825	ctagaaggcccaactgccaccactg	AA073580
27618	tgaaaaccgcatttggcatttcttt	U35885	70222	gcttgtatacactacaaacgataga	U34272	112826	agaaggcccaactgccaccactggt	AA073580
27619	ccgcatttggcatttctttggagag	U35885	70223	tgtatacactacaaacgatagacag	U34272	112827	caactgccaccactggttcctggga	AA073580
27620	ttggcatttctttggagagaaagtt	U35885	70224	tcaaccttgccagctcgaaatccag	U34272	112828	aatgccctgaaactataggatggtg	AA073580
27621	ttaaaccttctaaacatatgcaaat	U35885	70225	attgtcagtcaccagtcatgtacca	U34272	112829	tgccctgaaactataggatggtgac	AA073580
27622	tgtatccataacagaaatcacccag	U35885	70226	agtcaccagtcatgtaccaccagca	U34272	112830	tacaaggccttgggtaagatattgc	AA073580
27623	cataacagaaatcacccagtccaat	U35885	70227	caccagtcatgtaccaccagcatgg	U34272	112831	ggctctcctatttcagttcatgtgc	AA073580
27624	cacccagtccaatgctgaccaacta	U35885	70228	cagtcatgtaccaccagcatggtgc	U34272	112832	ctcctatttcagttcatgtgccaag	AA073580
27625	gtccaatgctgaccaactaatgact	U35885	70229	tgtaccaccagcatggtgctcatgc	U34272	112833	cctatttcagttcatgtgccaagca	AA073580
27626	tgctgaccaactaatgacttgttgt	U35885	70230	accaccagcatggtgctcatgcctg	U34272	112834	gcgctatgctttcccagatctcttg	AA073580
27627	tactcctcctgtcatttcaccaata	U35885	70231	atggtgctcatgcctgtagttctga	U34272	112835	agttcatgtgccaagcatccaacta	AA073580
27628	tgaatagctatcttcagacatcgcc	U35885	70232	gtgctcatgcctgtagttctgacat	U34272	112836	tatgctttcccagatctcttgggca	AA073580
27629	gctatcttcagacatcgccagcatc	U35885	70233	gaacaggccatcattttaagtgaga	U34272	112837	tgctttcccagatctcttgggcacc	AA073580
27630	catcgccagcatctgtgtttgtaag	U35885	70234	aagcacacgtgcaaatccaagtgaa	U34272	112838	ctttcccagatctcttgggcaccca	AA073580
27631	ttgtaagcacatcgttctgttcctt	U35885	70235	cacacgtgcaaatccaagtgaacaa	U34272	112839	ttcccagatctcttgggcacccagg	AA073580
27632	gcacatcgttctgttccttgcagac	U35885	70236	ctgtgacacagcccttcatgagagt	U34272	112840	cagatctcttgggcacccagggaag	AA073580
27633	cgttctgttccttgcagacctcgga	U35885	70237	agcccttcatgagagtcacagacag	U34272	112841	ccccaaggccttgtcagtctagaag	AA073580
27634	ttcactgtttagtgggctccacctt	U35885	70238	catcaaaatgccaactacgtataaa	U34272	112842	ccaaggccttgtcagtctagaaggc	AA073580
27635	ccacctttacaagtaggagattcag	U35885	70239	gccaactacgtataaatcctgtcag	U34272	112843	tatactgcttgtgcacggctgccca	AA024288
27636	actcagatctccttgaaaagaacaa	U35886	70240	tacgtataaatcctgtcaggaaaga	U34272	112844	actgcttgtgcacggctgcccaatg	AA024288
27637	tgaatacctaccttcagacatcacc	U35886	70241	aggtcttcaaccttgccagctcgaa	U34272	112845	gtcgtgacgcgctatgcctatgttc	AA024288
27638	tgacatgatcatactactggtggtc	U35886	70242	tatgaacacttggatgctgctgacg	D85904	112846	gtgacgcgctatgcctatgttctct	AA024288
27639	gatcatactactggtggtcatgttg	U35886	70243	gaacacttggatgctgctgacgtga	D85904	112847	tatgcctatgttctcttctaccgtc	AA024288
27640	catactactggtggtcatgttgatg	U35886	70244	tcccaggctgctgagcacggtgcag	D85904	112848	gcctatgttctcttctaccgtcgtc	AA024288
27641	actactggtggtcatgttgatgtgt	U35886	70245	gctgctgagcacggtgcagacacag	D85904	112849	tatgttctcttctaccgtcgtcgga	AA024288
27642	gaaatacccagcattggcttacagc	U35886	70246	gcagacacagctgtgccttctgatg	D85904	112850	ttctaccgtcgtcggaactctcctg	AA024288
27643	atacccagcattggcttacagctaa	U35886	70247	gacacagctgtgccttctgatggcg	D85904	112851	taccgtcgtcggaactctcctgtgg	AA024288
27644	gtattcccattaaattcaaccagca	U35886	70248	acagctgtgccttctgatggcgaca	D85904	112852	cgtcggaactctcctgtggagagac	AA024288
27645	ccattaaattcaaccagcattatcc	U35886	70249	gctgtgccttctgatggcgacaaga	D85904	112853	ccagacctaggccctgcagctgagg	AA024288
27646	ttaaattcaaccagcattatccata	U35886	70250	gtgccttctgatggcgacaagaagc	D85904	112854	cctgcagctgaggctgtgccagcca	AA024288
27647	aattcaaccagcattatccatatca	U35886	70251	aagcttcctgagatggacattgatt	D85904	112855	gcacggctgcccaatgatcgcagta	AA024288
27648	accttcagacatcaccagcgtctgt	U35886	70252	attgattgattccaacacttgttta	D85904	112856	cggctgcccaatgatcgcagtagcc	AA024288
27649	ccagcattatccatatcaaattttt	U35886	70253	gattgattccaacacttgtttatat	D85904	112857	ctgcccaatgatcgcagtagccagc	AA024288
27650	catcaccagcgtctgtgtttactag	U35886	70254	cacttggatgctgctgacgtgacaa	D85904	112858	cccaatgatcgcagtagccagcgca	AA024288
27651	caccagcgtctgtgtttactagcaa	U35886	70255	gatgctgctgacgtgacaaaggtag	D85904	112859	gatcgcagtagccagcgcagtgacg	AA024288
27652	tgcagaccccagaaggagttcattg	U35886	70256	agcaccaatgaggcgatggagtgga	D85904	112860	cgcagtagccagcgcagtgacgtgg	AA024288
27653	aggacaacgtcgatcttgtagagtt	U35886	70257	agtatttgcagtcctataatttcaa	D85904	112861	gaaagccaggtcgtgacgcgctatg	AA024288
27654	gttttggtgtccttccatgtacttg	U35886	70258	tgcagtcctataatttcaaaaccca	D85904	112862	caggtcgtgacgcgctatgcctatg	AA024288
27655	ttggtgtccttccatgtacttggaa	U35886	70259	gaaccaaaacatgctgagcagaatg	D85904	112863	atccactgccttggagactttggac	W13214
27656	gtgtccttccatgtacttggaatttt	U35886	70260	ccaggctcccaggctgctgagcacg	D85904	112864	ccactgccttggagactttggacac	W13214
27657	tggtcagcagtgcccacaaccccaa	AA034874	70261	ggctcccaggctgctgagcacggtg	D85904	112865	aactcagtggtcccacagaacctca	W13214
27658	gtcagcagtgcccacaaccccaata	AA034874	70262	ccaacagcagaaacgacaaggcact	D76446	112866	cagtggtcccacagaacctcagcgt	W13214
27659	cacagagcgaccaggatctgaacgc	AA034874	70263	aggcacttcatgattctctgggacc	D76446	112867	gtggtcccacagaacctcagcgtgc	W13214
27660	cagagcgaccaggatctgaacgccc	AA034874	70264	tgcatgctcctggagtgagctacct	D76446	112868	acagaacctcagcgtgcccgtcttc	W13214
27661	gaccaggatctgaacgcccgtcctt	AA034874	70265	ctcctggagtgagctacctaacagg	D76446	112869	cgtgcccgtcttctgcccatcaagg	W13214
27662	ccaggatctgaacgcccgtccttgt	AA034874	70266	gtagcacactggctactgtgtgcag	D76446	112870	tgcccgtcttctgcccatcaaggag	W13214
27663	aggatctgaacgcccgtccttgttg	AA034874	70267	cactggctactgtgtgcaggcatca	D76446	112871	cccgtcttctgcccatcaaggagca	W13214
27664	tgaacgcccgtccttgttgccaaat	AA034874	70268	ggcatcatcctttctctgtagtaaa	D76446	112872	tcttctgcccatcaaggagcactct	W13214
27665	cgtccttgttgccaaatggcaaaga	AA034874	70269	ttttcttcaaagtgctcatctcaaa	D76446	112873	ttctgcccatcaaggagcactctgt	W13214
27666	tccttgttgccaaatggcaaagaaa	AA034874	70270	tggtatgctccaatgtaaagacaga	D76446	112874	atcaaggagcactctgtctcctagg	W13214
27667	gcctcgccttccagtcatagcctgg	AA034874	70271	tttgtgccaacacatcctggcttta	D76446	112875	tgccttggagactttggacacagag	W13214
27668	ctcgccttccagtcatagcctggct	AA034874	70272	ccaacacatcctggctttagagcac	D76446	112876	caaggagcactctgtctcctaggcg	W13214
27669	caaccccaataaggcagagatccct	AA034874	70273	catcctggctttagagcacaatgga	D76446	112877	aacgctgccatcgttcttgccttct	W13214
27670	atgacccgaagaaacacctatgtgt	AA034874	70274	gtgttagctttttggcgtgttctga	D76446	112878	gttcttgccttctggttcatctagc	W13214
27671	cgaagaaacacctatgtgtgcacag	AA034874	70275	gctttttggcgtgttctgaatgcca	D76446	112879	tcttgccttctggttcatctagctc	W13214
27672	gaaacacctatgtgtgcacagagcg	AA034874	70276	aatgccaaatgcctctctttgctgc	D76446	112880	acgcccaaccactgggcgctggcga	W13214
27673	cacctatgtgtgcacagagcgacca	AA034874	70277	ttgctgcatttgttatgtcagttac	D76446	112881	gcccaaccactgggcgctggcgaac	W13214
27674	cctatgtgtgcacagagcgaccagg	AA034874	70278	ctgtcgtgttgcagcagatgatggc	D76446	112882	ccaaccactgggcgctggcgaactc	W13214
27675	tgtgtgcacagagcgaccaggatct	AA034874	70279	gcgagcgtgctcagcttcaggggca	D76446	112883	ccactgggcgctggcgaactcagtg	W13214
27676	tgcacagagcgaccaggatctgaac	AA034874	70280	gtgctcagcttcaggggcacatgaa	D76446	112884	agctagacttaatgctttagaagaa	

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27677	gacaaggtctctccatatatcccag	U21103	70281	agcttcaggggcacatgaagtgaac	D76446	112885	tagacttaatgctttagaagaagta	
27678	gtctctccatatatcccagactatc	U21103	70282	agaacatccagcgtgtggctgcggg	M90365	112886	gaagagccttgaccaagtgcagtca	
27679	agcacacaaaacctgtacacactgt	U21103	70283	aggctgccgacgccattgatgcgga	M90365	112887	gagccttgaccaagtgcagtcagat	
27680	ctgtacacactgtctgaaggaaggg	U21103	70284	tcaccaattccctcttcaagcatga	M90365	112888	ccaagtgcagtcagatcttaacgtg	
27681	ctgctccactctgctgggcggcaag	U21103	70285	attccctcttcaagcatgacccagc	M90365	112889	agtgcagtcagatcttaacgtgctt	
27682	cactctgctgggcggcaagacctag	U21103	70286	ctgcctgggaggctgcccagagtat	M90365	112890	gcagtcagatcttaacgtgcttctt	
27683	gacctagaacgggccctgcactgtc	U21103	70287	tgatcccgatcaacgaacctatgc	M90365	112891	ccaaggacgacctgtctgcgcacaa	
27684	cccaccatgggttgtggtctcagaa	U21103	70288	acgaacctatgcagacgacatgga	M90365	112892	aggacgacctgtctgcgcacaaacg	
27685	ctcagaaatcgcttcagcagctctt	U21103	70289	ccagcgatgtgcctctggaccctct	M90365	112893	acctgtctgcgcacaaacggatgag	
27686	ttcagcagctcttccctggaggctg	U21103	70290	atgtgcctctggaccctctggacat	M90365	112894	tgtctgcgcacaaacggatgagccc	
27687	agctcttccctggaggctgtgacag	U21103	70291	tggacatgcacatggacctggatgg	M90365	112895	ctgcgcacaaacggatgagcccatc	
27688	tggcttccaacctctctgaaggaag	U21103	70292	tggacacctacagtgacggcctgag	M90365	112896	agttttagagttgggtcaagatgtg	
27689	ccatatatcccagactatccatgaa	U21103	70293	ccactgcagaccacatgctggccta	M90365	112897	tttagagttgggtcaagatgtggca	
27690	ccatgaatgatcctcctacctgttt	U21103	70294	tccattcccgcaatgagggcaccgc	M90365	112898	aaccagagcacatttattgggcatt	
27691	atgatcctcctacctgtttctagag	U21103	70295	cccgcaatgagggcaccgcgaccta	M90365	112899	tggagccctgcttttggtcatagta	
27692	ctcctacctgtttctagagtgctag	U21103	70296	atgagggcaccgcgacctacgctgc	M90365	112900	agccctgcttttggtcatagtactt	
27693	cctgtttctagagtgctaggattac	U21103	70297	gcaccgcgacctacgctgctgctgt	M90365	112901	tatgattttccccattgttttccag	
27694	caggcatgcatgaccacacgtggcc	U21103	70298	tccgcatctctgaggacaagaaccc	M90365	112902	cattgttttccagtgccttgcgaag	
27695	tcctttcctgtttgcaaccttgctt	U21103	70299	cagattaccgtaagcgagtgtctgt	M90365	112903	tgttttccagtgccttgcgaagagc	
27696	acctgtagcacacaaaacctgtaca	U21103	70300	tgtctgtggagctcaccaattccct	M90365	112904	caaggcctgtccctgctctcagaag	M12930
27697	gccattatgagctcttggcacacaa	AA063985	70301	tggagctcaccaattccctcttcaa	M90365	112905	ctgctctcagaagccatcctgcagg	M12930
27698	cattatgagctcttggcacacaagt	AA063985	70302	gcccgtaccagtctgtggcagcggc	AA068578	112906	tgctccccgtcactgtgtcatgcca	M12930
27699	caaattcattcaacatagaaccaat	AA063985	70303	cgtaccagtctgtggcagcggcacg	AA068578	112907	ccagtctgtcccatggacactccag	M12930
27700	aattcattcaacatagaaccaatga	AA063985	70304	ctggagctgcgtggtttccaacatg	AA068578	112908	tgtcccatggacactccagcaccag	M12930
27701	ttcattcaacatagaaccaatgaga	AA063985	70305	cgtggtttccaacatgacctgagca	AA068578	112909	atggacactccagcaccagcagtga	M12930
27702	cattcaacatagaaccaatgagagc	AA063985	70306	ttccaacatgacctgagcagcctgc	AA068578	112910	actccagcaccagcagtgacatcct	M12930
27703	ttcaacatagaaccaatgagagcaa	AA063985	70307	catgacctgagcagcctgcgcgggt	AA068578	112911	gaacttcccagagctccattctgaa	M12930
27704	tttgtttgccatggattctacctgg	AA063985	70308	ttggcacagagcttccggcctgcta	AA068578	112912	cccagagctccattctgaaatctaa	M12930
27705	tgtttgccatggattctacctggcc	AA063985	70309	gcacagagcttccggcctgctatga	AA068578	112913	gctccattctgaaatctaaagatgt	M12930
27706	tgccatggattctacctggccaaga	AA063985	70310	cagagcttccggcctgctatgagga	AA068578	112914	gacaagcccgaggcccagagaagaa	M12930
27707	ccatggattctacctggccaagaaa	AA063985	70311	caccagctcctggatcgcagtctga	AA068578	112915	cccgaggcccagagaagaagagcct	M12930
27708	atggattctacctggccaagaaaag	AA063985	70312	gcaggttccagtggcaaaggaggca	AA068578	112916	ccaccagagacccttcagcttcata	M12930
27709	ttatgagctcttggcacacaagtga	AA063985	70313	ggttccagtggcaaaggaggcactg	AA068578	112917	atagacaaagccatcagtggtctac	M12930
27710	atgagctcttggcacacaagtgagc	AA063985	70314	accagtctgtggcagcggcacgagt	AA068578	112918	aaagccatcagtggtctacgtagcc	M12930
27711	gctcttggcacacaagtgagcattt	AA063985	70315	gagtcaccagcttcagtccaggtag	AA068578	112919	atcagtggtctacgtagcctcactt	M12930
27712	agcattttcagtgcagtgagactca	AA063985	70316	tcaccagcttcagtccaggtagctc	AA068578	112920	cgtagcctcacttcactgcttcggg	M12930
27713	cattttcagtgcagtgagactcaag	AA063985	70317	gcttcagtccaggtagctcacggta	AA068578	112921	ctcacttcactgcttcgggtactgg	M12930
27714	gtatacctcaatctttactactgta	AA063985	70318	gtccaggtagctcacggtaccagca	AA068578	112922	gaattgatgtcgcctccagatacca	M12930
27715	atacctcaatctttactactgtatt	AA063985	70319	gtagctcacggtaccagcaatggac	AA068578	112923	ctcacagtggatactttctgcaagc	M12930
27716	gccaaattcattcaacatagaacca	AA063985	70320	aatggaccccaggcctctgctctgg	AA068578	112924	tggtttctcatttttgaatcaacat	X14926
27717	gcaggcatcagccgttcagtgacag	W78443	70321	caggcctctgctctggagctgcgtg	AA068578	112925	tttgaatcaacatcttttccttctg	X14926
27718	gcatcagccgttcagtgacagttac	W78443	70322	tacgtggtggccagtatgcgtatta	AA067638	112926	ccctattgtgtctccttctctggga	X14926
27719	tccctcaacgacgcctatgacttcg	W78443	70323	atgcgtattatgacccgcctgggga	AA067638	112927	agctaaaagcagcctttctcaggtg	X14926
27720	aacgacgcctatgacttcgtcaaga	W78443	70324	tttccccagtgcctgtggcaagacc	AA067638	112928	atttatatgtatcccatagtctcta	X14926
27721	cgacgcctatgacttcgtcaagagg	W78443	70325	ccccagtgcctgtggcaagaccaat	AA067638	112929	atgtatcccatagtctctaaatggg	X14926
27722	acgcctatgacttcgtcaagaggaa	W78443	70326	ctgtggcaagaccaatctggccatg	AA067638	112930	agtagccatcaggtcttgatcctaa	X14926
27723	actttgagcggacgctggggctcag	W78443	70327	tggcaagaccaatctggccatgatg	AA067638	112931	agccatcaggtcttgatcctaaact	X14926
27724	tttgagcggacgctggggctcagca	W78443	70328	gaccaatctggccatgatgaggcct	AA067638	112932	ttgatcctaaactcatagacgtgta	X14926
27725	cggacgctggggctcagcagcccat	W78443	70329	caatctggccatgatgaggcctgca	AA067638	112933	tgattctagcacagacctcattgac	X14926
27726	ggctcagcagcccatgcgacaacca	W78443	70330	tctggccatgatgaggcctgcattg	AA067638	112934	agacctcattgacagactgactaga	X14926
27727	catgcgacaaccacgcacccagtga	W78443	70331	ggatgacatcgcctggatgaggttt	AA067638	112935	cctcattgacagactgactagaatt	X14926
27728	aaccacgcacccagtgagcagctct	W78443	70332	tgacatcgcctggatgaggtttgac	AA067638	112936	gaatcaacatcttttccttctgtcc	X14926
27729	atcagccgttcagtgacagttactg	W78443	70333	catcgcctggatgaggtttgacagt	AA067638	112937	ttggtcactaccctccaactctagg	X14926
27730	cagccgttcagtgacagttactgta	W78443	70334	attatgacccgcctggggacacctg	AA067638	112938	ggagaagccctaggcttgagatttc	X14926
27731	gttactgtagcctacctgatgcaga	W78443	70335	acacctgtacttcaggccctgggag	AA067638	112939	tttcatctgctctccttcctgcatc	X14926
27732	tactgtagcctacctgatgcagaag	W78443	70336	gacttcatcaagtgtctgcattcag	AA067638	112940	gcccccaggactgggccacttgtgg	X14926
27733	ctgtagcctacctgatgcagaagat	W78443	70337	atcaagtgtctgcattcagtgggcc	AA067638	112941	ccacttgtggggcagccagttctag	X14926
27734	gtagcctacctgatgcagaagatga	W78443	70338	cagcccctgactggacatgattttg	AA067638	112942	cagccagttctagcacagctcacac	X14926
27735	cctacctgatgcagaagatgaacct	W78443	70339	tttgggcatcaccaaccctgcaggg	AA067638	112943	gcacagctcacactgagagtgtaag	X14926
27736	agaagatgaacctgtccctcaacga	W78443	70340	gggcatcaccaaccctgcagggaaa	AA067638	112944	aatatgactccatctccagactgga	W13304
27737	atctacttctcaatggtccaggctg	M14757	70341	tgctttccccagtgcctgtggcaag	AA067638	112945	ccatctccagactggaccagtggct	W13304
27738	tctacttctcaatggtccaggctgg	M14757	70342	atgaagagccccaggcaccccagga	AA103933	112946	ttccacccatctgtctatcacagag	W13304
27739	tcatgagctgtgactatctgaggtg	M14757	70343	aggcaccccaggagagcactccagc	AA103933	112947	ccatctgtctatcacagaggtggag	W13304
27740	agctgtgactatctgaggtgctaag	M14757	70344	agccagagctcctgagagctatagt	AA103933	112948	tctgtctatcacagaggtggagcca	W13304
27741	actatctgaggtgctaagtattttt	M14757	70345	cagagctcctgagagctatagttga	AA103933	112949	tatcacagaggtggagccagcacct	W13304
27742	ttaaaggtaactccatcaagatgag	M14757	70346	agctcctgagagctatagttgactg	AA103933	112950	tcccaccaggagtctgaaggagtgg	W13304
27743	taaaggtaactccatcaagatgaga	M14757	70347	ctatagttgactgtggctttgagca	AA103933	112951	atgtgggccacattctccagcacca	W13304
27744	aaaggtaactccatcaagatgagaa	M14757	70348	ttgactgtggctttgagcatccttc	AA103933	112952	tgggccacattctccagcaccaggc	W13304

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27745	aggtaactccatcaagatgagaagc	M14757	70349	gctttgagcatccttcagaggtcca	AA103933	112953	tccagcaccaggcgagctctcctgg	W13304
27746	gtaactccatcaagatgagaagcct	M14757	70350	ttgagcatccttcagaggtccagca	AA103933	112954	accaggcgagctctcctggatggct	W13304
27747	atgagaagccttccgagactttgta	M14757	70351	agcatccttcagaggtccagcatga	AA103933	112955	aggcgagctctcctggatggctggt	W13304
27748	tgagaagccttccgagactttgtaa	M14757	70352	cttcagaggtccagcatgattgtat	AA103933	112956	tctccagactggaccagtggcttac	W13304
27749	acttctcaatggtccaggctggagc	M14757	70353	agcatgattgtattccccaggccat	AA103933	112957	ccagactggaccagtggcttaccac	W13304
27750	cttctcaatggtccaggctggagca	M14757	70354	tctccatccacagttctggcttccg	AA103933	112958	accagtggcttaccaccatgcttct	W13304
27751	ttctcaatggtccaggctggagcaa	M14757	70355	atgattgtattccccaggccattct	AA103933	112959	agtggcttaccaccatgcttctgcg	W13304
27752	ctcaatggtccaggctggagcaaag	M14757	70356	tccacagttctggcttccgggactt	AA103933	112960	ggcttaccaccatgcttctgcgcat	W13304
27753	tcaatggtccaggctggagcaaagc	M14757	70357	tccgggactttctactgaagccaga	AA103933	112961	ccaccatgcttctgcgcataaagaa	W13304
27754	caatggtccaggctggagcaaagcg	M14757	70358	gggactttctactgaagccagagct	AA103933	112962	ccatgcttctgcgcataaagaagac	W13304
27755	gcgctcatgagctgtgactatctga	M14757	70359	actttctactgaagccagagctcct	AA103933	112963	aggacctgcgctaggcctccagcca	W13304
27756	cgctcatgagctgtgactatctgag	M14757	70360	ttctactgaagccagagctcctgag	AA103933	112964	caggctttgacggcgacagaagggc	D13801
27757	ttagtcccaagtcgtcggactccat	W78604	70361	tactgaagccagagctcctgagagc	AA103933	112965	tacagccaatcagccatctgcaggt	D13801
27758	gtcccaagtcgtcggactccatttg	W78604	70362	tgaagccagagctcctgagagctat	AA103933	112966	tccttcacaccgcaggccatagagg	D13801
27759	tgcgtctcttttcattcatctccag	W78604	70363	acctgcccactgagcactgcaaagc	U38252	112967	acaccgcaggccatagaggctctca	D13801
27760	cgtctcttttcattcatctccagac	W78604	70364	ccactgagcactgcaaagccaatgg	U38252	112968	atagaggctctcaatgcctactttg	D13801
27761	gtctcttttcattcatctccagacc	W78604	70365	gagacccacttctggcttcaggagc	U38252	112969	ttctgtaatcgacgccagacactga	D13801
27762	ctcttttcattcatctccagacctt	W78604	70366	ttcaggctatacacgcatcaagctg	U38252	112970	aatcgacgccagacactgaagaaca	D13801
27763	tcttttcattcatctccagaccttt	W78604	70367	ctatacacgcatcaagctgagcagg	U38252	112971	acactgaagaacaccagcaagctga	D13801
27764	ttttcattcatctccagaccttag	W78604	70368	acgcatcaagctgagcaggcagcaa	U38252	112972	accagcaagctgaacgtctttcaga	D13801
27765	tttcattcatctccagaccttaga	W78604	70369	taaacttctccctgcttgaaagtgg	U38252	112973	tttcagatcccgtaggctcagtgtc	D13801
27766	cattcatctccagaccttagaggt	W78604	70370	ctgatcgtctcaggccaaccagagg	U38252	112974	atcccgtaggctcagtgtcagcgtg	D13801
27767	ttcatctccagaccttagaggttt	W78604	70371	gctccgcctctgaggattggctgct	U38252	112975	taggctcagtgtcagcgtgtgccgg	D13801
27768	tcatctccagaccttagaggtttt	W78604	70372	attggctgctgggatggaagtcagc	U38252	112976	gccatctgcaggtttgagaaattgg	D13801
27769	ccaagtcgtcggactccatttgcta	W78604	70373	acgccagcaattgctcttttggaaa	U38252	112977	aaattggacatcacacccaagagcg	D13801
27770	aagtcgtcggactccatttgctatt	W78604	70374	aaatctaccagtcccactgtgggtg	U38252	112978	gacatcacacccaagagcgcccaga	D13801
27771	agtcgtcggactccatttgctattc	W78604	70375	agcactgcaaagccaatggggtaga	U38252	112979	acacccaagagcgcccagaagctga	D13801
27772	tcgtcggactccatttgctattctt	W78604	70376	attaagtagcttttcgcaggccact	U38252	112980	aagagcgcccagaagctgaagccgg	D13801
27773	tcggactccatttgctattcttttc	W78604	70377	tagcttttcgcaggccactggggac	U38252	112981	gcagagctccgcaaccaggaaggcc	D13801
27774	cggactccatttgctattcttttct	W78604	70378	ttcgcaggccactggggacgaggct	U38252	112982	gagccctccaagaaacgcaagcggc	D13801
27775	gtagtgggcgttcgtctttgcgtct	W78604	70379	acctctgtctatcccaggcaaagac	U38252	112983	aaacgcaagcggcgcacttccttca	D13801
27776	ttgcgtctcttttcattcatctcca	W78604	70380	gtctatcccaggcaaagacatcgtc	U38252	112984	gagaacctctcagggcctggggca	J04843
27777	ccctcctgaaaccatctccttatgg	L47650	70381	caaagacatcgtccttgcctctgta	U38252	112985	agtgtggaccctgtgactatggatg	J04843
27778	tgaaaccatctccttatgggcaatc	L47650	70382	catcgtccttgcctctgtaccggct	U38252	112986	cacttgaagtacctataccttgtgg	J04843
27779	tatggaactgctgtgctctgtccta	L47650	70383	ggcttcaacatgaaagccacttgtg	AA067797	112987	cttgtggtgtccgattctggcatct	J04843
27780	actgctgtgctctgtcctacctgcc	L47650	70384	gcttcaacatgaaagccacttgtga	AA067797	112988	ggcatctcaacagattacagttcgg	J04843
27781	gtgctctgtcctacctgccatatca	L47650	70385	acttcaaggcaaggttcatggtgag	AA067797	112989	tatgagaacagccttgtcccagact	J04843
27782	tgatacaactgtatcacaacacaca	L47650	70386	cttcaaggcaaggttcatggtgagg	AA067797	112990	cttgtcccagactcagagcctctgc	J04843
27783	aactgtatcacaacacacacgcaca	L47650	70387	gccaaccggaggttcctggcaagtg	AA067797	112991	ggctatgtggcctgctcctaggact	J04843
27784	acacatacacacacaccagaactgt	L47650	70388	ccggaggttcctggcaagtgccatg	AA067797	112992	taggactccagcctacaacgtcttg	J04843
27785	acacacacaccagaactgtgttgag	L47650	70389	tcctggcaagtgccatggaatcatc	AA067797	112993	tccagcctacaacgtcttgaacggg	J04843
27786	gcctgggactcaacatacagaaaca	L47650	70390	gccatggaatcatcagccggctggg	AA067797	112994	cagagctgaccttggccctctgagc	J04843
27787	atatagccctagggcattgaagctg	L47650	70391	ccatggaatcatcagccggctgggt	AA067797	112995	gagacagccttgcaatgttaagatt	J04843
27788	ccctagggcattgaagctgggctca	L47650	70392	catggaatcatcagccggctgggta	AA067797	112996	gaagcttcagaaacatcttcctgcc	J04843
27789	gatcccagctggagaagcccagaaa	L47650	70393	cttcaacatgaaagccacttgtgaa	AA067797	112997	tcagaaacatcttcctgcccgtctg	J04843
27790	ccagaaacaaagcctcttctgtctc	L47650	70394	ttcaacatgaaagccacttgtgaag	AA067797	112998	ccgtctgacttggcctcaaagccca	J04843
27791	cctcttctgtctctatggaccagct	L47650	70395	tcaacatgaaagccacttgtgaaga	AA067797	112999	gacttggcctcaaagcccaggccag	J04843
27792	ctatggaccagctctggacacctgc	L47650	70396	caacatgaaagccacttgtgaagat	AA067797	113000	gcctcaaagcccaggccagagggca	J04843
27793	accagctctggacacctgctcatgc	L47650	70397	aacatgaaagccacttgtgaagatt	AA067797	113001	acctcaccttccagctttgagtaca	J04843
27794	tctggacacctgctcatgcaggtgc	L47650	70398	acatgaaagccacttgtgaagatta	AA067797	113002	ccttccagctttgagtacaccatcc	J04843
27795	cacctgctcatgcaggtgccttccg	L47650	70399	catgaaagccacttgtgaagattag	AA067797	113003	agctttgagtacaccatcctggacc	J04843
27796	aactggctgggagaccatgtggtgt	L47650	70400	atgaaagccacttgtgaagattaga	AA067797	113004	gcacaggaagctggctgcagtgcct	M77003
27797	cagagtcactcacaggcaattattt	U27014	70401	aggcccagtgtcttggcattcttgt	U40930	113005	ggctgcagtgccttcctcatgaagg	M77003
27798	gcaattatttcccattccactcagt	U27014	70402	agtgtcttggcattcttgtagaatc	U40930	113006	tagtttagtgcggccagtgactgct	M77003
27799	ggtccaaatcacacccttttgtgatc	U27014	70403	gcagtccagaattcctgcctgacaa	U40930	113007	tttagtgcggccagtgactgcttca	M77003
27800	ccaaatcacacccttttgtgatctta	U27014	70404	cagaattcctgcctgacaacccgtg	U40930	113008	gccagtgactgcttcaagagacttc	M77003
27801	cacacccttttgtgatcttaagataa	U27014	70405	tcaacaaataaagccattatgttaa	U40930	113009	aagagacttctgaccttgcttccca	M77003
27802	acccttttgtgatcttaagataatca	U27014	70406	caggggcctacagctcctagggaat	U40930	113010	gctaactgtctttatggaaggcact	M77003
27803	gatgtaacttgggctgcagtctgta	U27014	70407	cctacagctcctagggaatggagaa	U40930	113011	tatttgcccattgtacagagcaatg	M77003
27804	gtaacttgggctgcagtctgtaatc	U27014	70408	ctaatggccactctttagtgtttgt	U40930	113012	agcactgtgtgactttgtgaaggac	M77003
27805	acttgggctgcagtctgtaatccac	U27014	70409	gccactctttagtgtttgtgtctaa	U40930	113013	cactgccttggaaatgttgactgac	M77003
27806	gcagtctgtaatccacctcttcagc	U27014	70410	caggacccccatgtagcttcctctg	U40930	113014	tgacgtttatgcctggtgatagcat	M77003
27807	gtctgtaatccacctcttcagctat	U27014	70411	ccccatgtagcttcctctgacttgg	U40930	113015	ttatgcctggtgatagcattcccga	M77003
27808	tgtaatccacctcttcagctataag	U27014	70412	gtagcttcctctgacttggtttgta	U40930	113016	gccttcctcatgaaggatctaccac	M77003
27809	tccactcagttctggctaccagaag	U27014	70413	atgtgtgatgccttttcaggcaata	U40930	113017	aactgcacagttgaacgcagatttt	M77003
27810	cacctcttcagctataagtaggccg	U27014	70414	gatgccttttcaggcaataggaaag	U40930	113018	tttttatccataggtaactgtagtg	M77003
27811	cagttctggctaccagaagatgctc	U27014	70415	gcatatgctgacgcctgagaacaga	U40930	113019	tttttaggggcttgagagctgccac	M77003
27812	ttctggctaccagaagatgctcccc	U27014	70416	gagctgagcttcctctgcttcccct	U40930	113020	gcttgagagctgccacctggcattt	M77003

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27813	tgctgatatctgtcggatgggtatc	U27014	70417	ggaactgcagcacacactgcactcc	U40930	113021	ctgccacctggcatttagtttagtg	M77003
27814	tgatatctgtcggatgggtatcaca	U27014	70418	gctcttgccgccagcattgcaccag	U40930	113022	ccacctggcatttagtttagtgcgg	M77003
27815	tatctgtcggatgggtatcacagcg	U27014	70419	agcattgcaccagcagtccagaatt	U40930	113023	atttagtttagtgcggccagtgact	M77003
27816	tatcacagcgtaatttcatcatagg	U27014	70420	gcaccagcagtccagaattcctgcc	U40930	113024	tgtcttgagcatcttcgtgaacatc	M26687
27817	ttgggtccaaatcacacccttttgtg	U27014	70421	cggcactgccatgggcaccgacagc	AA067813	113025	gagcatcttcgtgaacatctatctc	M26687
27818	cacaacatcacggtgaaccaggtca	W79953	70422	gcactgccatgggcaccgacagccg	AA067813	113026	ctctccactcatgcctcaggatcag	M26687
27819	gtgaaccaggtcaacgcatgtcatg	W79953	70423	gtatccaaaagaccttgaatgaatg	AA067813	113027	actcatgcctcaggatcagctcaca	M26687
27820	ccagagtacttcacctacagcgtgc	W79953	70424	atccaaaagaccttgaatgaatgga	AA067813	113028	aatgtcaccaaagctggtttgctgc	M26687
27821	gagtacttcacctacagcgtgctgc	W79953	70425	cccaaatcagccccgatttagtcag	AA067813	113029	ccagctcgtgagatcctggtcattt	M26687
27822	tacttcacctacagcgtgctgctca	W79953	70426	caaatcagccccgatttagtcaggg	AA067813	113030	atcctggtcatttctggacagtccc	M26687
27823	agcgtgctgctcagcctgctggcct	W79953	70427	tcagccccgatttagtcagggagtt	AA067813	113031	tctggacagtcccttggtttactca	M26687
27824	gtgttcctgcagatcagctgcattg	W79953	70428	tggaatgcaccatgtcccatgcagt	AA067813	113032	atctccctctgaacaaagaaagcag	M26687
27825	ctgcagatcagctgcattggaaagc	W79953	70429	gaatgcaccatgtcccatgcagtgg	AA067813	113033	ggcatcgcccatgtgcacactccag	M26687
27826	ctcatgctggccattgagttcatct	W79953	70430	gcaccatgtcccatgcagtggagaa	AA067813	113034	gcccatgtgcacactccagatggct	M26687
27827	ctggccattgagttcatctatgtgc	W79953	70431	accatgtcccatgcagtggagaaga	AA067813	113035	gtgcacactccagatggctagtgag	M26687
27828	gagttcatctatgtgctcatcgtgg	W79953	70432	tgtcccatgcagtggagaagataaa	AA067813	113036	cttcgtgaacatctatctcatgatg	M26687
27829	gtgcccggcgtcacactcttcgaca	W79953	70433	tgcacctgcagaccgggaacctgct	AA067813	113037	gaacatctatctcatgatgcagctg	M26687
27830	caggtcaacgcatgtcatgtgatgg	W79953	70434	cacctgcagaccgggaacctgctca	AA067813	113038	ctatctcatgatgcagctggaccag	M26687
27831	ggcgtcacactcttcgacaacgctg	W79953	70435	tgcagaccgggaacctgctcaactg	AA067813	113039	caccatctatttcggttatgggatc	M26687
27832	aacgcatgtcatgtgatggagtcgg	W79953	70436	cagaccgggaacctgctcaactggg	AA067813	113040	tggccaggcaaagactcctgacagc	M26687
27833	gagtcggccttcaactacagcctgg	W79953	70437	acctgctcaactggggccgcctgcg	AA067813	113041	ggcaaagactcctgacagcaacttg	M26687
27834	tcggccttcaactacagcctgggcg	W79953	70438	cgtccacgcacagcgaggagcttcg	AA067813	113042	gactcctgacagcaacttggaccag	M26687
27835	gccttcaactacagcctgggcgacg	W79953	70439	tccacgcacagcgaggagcttcggg	AA067813	113043	tgacagcaacttggaccagtgcaaa	M26687
27836	agcctgggcgacgagcagggcttct	W79953	70440	gactgtatccaaaagaccttgaatg	AA067813	113044	agttcacagcacagatgggcagaga	W13498
27837	aactgcaacttcccagagtacttca	W79953	70441	tttgtaagctcttttgtgaagctgg	AA067817	113045	tcacagcacagatgggcagagatgg	W13498
27838	tgcaacttcccagagtacttcacct	W79953	70442	ttgtaagctcttttgtgaagctggt	AA067817	113046	atctgtggtagccagtgttcctatg	W13498
27839	atcaagtccaacttcaagccctcac	U27106	70443	tactgtgcttcggtacttcgcatcc	AA067817	113047	ggtagccagtgttcctatgttctgc	W13498
27840	ttcaagccctcacttctggcccaga	U27106	70444	actgtgcttcggtacttcgcatccg	AA067817	113048	cagtgttcctatgttctgctagtac	W13498
27841	atcaagcgcatggcaggcatgaagg	U27106	70445	tgtgcttcggtacttcgcatccgac	AA067817	113049	tcctatgttctgctagtacctgggt	W13498
27842	cccatttccatgaactttgaggtgc	U27106	70446	gtgcttcggtacttcgcatccgacc	AA067817	113050	tatgttctgctagtacctgggtcac	W13498
27843	atttccatgaactttgaggtgccat	U27106	70447	tgcttcggtacttcgcatccgacct	AA067817	113051	ctagtacctgggtcaccagccatag	W13498
27844	ggcctcaaggtgcgctacttgaagg	U27106	70448	gcttcggtacttcgcatccgacctt	AA067817	113052	gtacctgggtcaccagccatagggt	W13498
27845	gtattcgaaccgaagctgaactaca	U27106	70449	ttcggtacttcgcatccgaccttca	AA067817	113053	cctgggtcaccagccatagggtaca	W13498
27846	ttcgaaccgaagctgaactacagcg	U27106	70450	tcggtacttcgcatccgaccttcac	AA067817	113054	tcaccagccatagggtacagccagc	W13498
27847	aagctgaactacagcgaccatgatg	U27106	70451	cggtacttcgcatccgaccttcacg	AA067817	113055	cagccccagtgtgtggtcttgttgg	W13498
27848	ctgaactacagcgaccatgatgtca	U27106	70452	ggtacttcgcatccgaccttcacgg	AA067817	113056	gagatggtccccacagcttcagccc	W13498
27849	tacagcgaccatgatgtcatcaaat	U27106	70453	tgtaagctcttttgtgaagctggtt	AA067817	113057	catcatccccagaggccgagcaggg	W13498
27850	acccctagtgaccactcaccagtgt	U27106	70454	gtacttcgcatccgaccttcacgga	AA067817	113058	catccccagaggccgagcagggagg	W13498
27851	ccctcacttctggcccagaagattg	U27106	70455	caccggtgactactgtgcttcggta	AA067817	113059	gagctgagcccctgaaatcctgcac	W13498
27852	tgctgcctttcctttccaatagccc	U27106	70456	cggtgactactgtgcttcggtactt	AA067817	113060	agcccctgaaatcctgcacgtagct	W13498
27853	gtgaggatcccgactccattgaaca	U27106	70457	ggtgactactgtgcttcggtacttc	AA067817	113061	ccctgaaatcctgcacgtagctgag	W13498
27854	aggatcccgactccattgaacacaa	U27106	70458	gtgactactgtgcttcggtacttcg	AA067817	113062	tgaaatcctgcacgtagctgagtga	W13498
27855	ccgactccattgaacacaagcgggg	U27106	70459	tgactactgtgcttcggtacttcgc	AA067817	113063	aatcctgcacgtagctgagtgagct	W13498
27856	ccattgaacacaagcggggtacagg	U27106	70460	actactgtgcttcggtacttcgcat	AA067817	113064	tgggatggcctcaggatggtacttt	M26005
27857	gccaagtacaaggccagcgagaacg	U27106	70461	ctactgtgcttcggtacttcgcatc	AA067817	113065	ttaagtattatctctcaggttaagt	M26005
27858	aagtacaaggccagcgagaacgcca	U27106	70462	gatgacctttcctgctgccctgagt	U59230	113066	caggttctccctgatagcggcggac	M26005
27859	agcgagaacgccattgtatggaaga	U27106	70463	tgctgccctgagtgtgacccaaggc	U59230	113067	ctgatagcggcggacccctcattga	M26005
27860	atttgatgcactgctcgaactccat	W80326	70464	accatccgcaatgacatcaccaaaa	U59230	113068	attgaccttctcacagaggacctcc	M26005
27861	tgcactgctcgaactccatgttatc	W80326	70465	gacatcaccaaaacctgcctggacg	U59230	113069	tacggagcacaaccttcctcctctg	M26005
27862	gaactataaggccctccatgtgaag	W80326	70466	acctgcctggacgagatgaacgtgg	U59230	113070	tcctcctctgccagagagaacgata	M26005
27863	ctctgtcttgccgaatagcctccaa	W80326	70467	ttcaccgggtcttcctggatcaagc	U59230	113071	cctcctctgccagagagaacgataa	M26005
27864	tgtcttgccgaatagcctccaattc	W80326	70468	atcaagcacggcacggagtgtaccc	U59230	113072	tcctctgccagagagaacgataaag	M26005
27865	gaatagcctccaattcctgtgggtt	W80326	70469	tgtaccctctgccagtgcaagaatg	U59230	113073	gcagcggactccatcatctcccagg	M26005
27866	tagcctccaattcctgtgggttcct	W80326	70470	ggccatttgtgctgctcagtggatc	U59230	113074	gcggactccatcatctcccaggcat	M26005
27867	attcctgtgggttcctacactcagt	W80326	70471	ttgtgctgctcagtggatccacagt	U59230	113075	cggactccatcatctcccaggcatt	M26005
27868	gtgggttcctacactcagttctgtt	W80326	70472	agttaactgcctcatgggagatatc	U59230	113076	taagtattatctctcaggttaagtc	M26005
27869	tacactcagttctgttcccataagc	W80326	70473	tgcaactttgttagcagctggatag	U59230	113077	agtattatctctcaggttaagtcta	M26005
27870	actcagttctgttcccataagcatg	W80326	70474	agtcagtgcctgcatcaaaacgggg	U59230	113078	gtattatctctcaggttaagtctag	M26005
27871	ttctgttcccataagcatggatggg	W80326	70475	ttcgtggggcctgaggaacatctct	U59230	113079	attatctctcaggttaagtctagag	M26005
27872	gctcgaactccatgttatcagcata	W80326	70476	gtgtacaacagcggcgacacctggg	U59230	113080	ttatctctcaggttaagtctagagt	M26005
27873	tgttgtcaccatcctgaaatctctc	W80326	70477	cgtcagtgccgctgcttgcaaggag	U59230	113081	atctctcaggttaagtctagagtgt	M26005
27874	cgaactccatgttatcagcatagac	W80326	70478	tgccgctgcttgcaaggagaagttg	U59230	113082	tctctcaggttaagtctagagtgtt	M26005
27875	tatcagcatagacagcccctctgta	W80326	70479	gactgttggcccctggcttgcccag	U59230	113083	ctaagccccaggttctccctgatag	M26005
27876	cagcatagacagcccctctgtaaat	W80326	70480	tgcccacgctgtgtcaccgatcctt	U59230	113084	tcctatccttgctgcatctgatgaa	W13385
27877	agacagcccctctgtaaatgatggg	W80326	70481	gatccttgtcaggccgacaccatcc	U59230	113085	ccttgctgcatctgatgaagaagac	W13385
27878	caatgttgtcagcacctaaaatccg	W80326	70482	gccgacaccatccgcaatgacatca	U59230	113086	atgagaagcccaccatatggcttcc	W13385
27879	tgttgtcagcacctaaaatccgttc	W80326	70483	ccgcattggcatctttgggcaggat	AA170104	113087	agaagcccaccatatggcttcctgg	W13385
27880	cccgaactataaggccctccatgtg	W80326	70484	cattggcatctttgggcaggatgag	AA170104	113088	ccatatggcttcctggaaagcgact	W13385

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
27881	tgcctcacaaatgcctatgtaggtt	L41154	70485	tcgagttgaaccttcccacaagtct	AA170104	113089	tatggcttcctggaaagcgactctt	W13385
27882	ctcacaaatgcctatgtaggttctt	L41154	70486	ttcccacaagtctaagattgttgag	AA170104	113090	gaaagcgactcttgacagctatgct	W13385
27883	ctgttcctctcatcctggagtaagc	L41154	70487	tgttgagttccttcagtcctttgat	AA170104	113091	agcgactcttgacagctatgctagc	W13385
27884	tggctgtaggccagcccactgtcct	L41154	70488	gttccttcagtcctttgatgagatc	AA170104	113092	gactcttgacagctatgctagctgt	W13385
27885	ctgtaggccagcccactgtccttga	L41154	70489	agctatgactggtgatggtgtgaat	AA170104	113093	tagctgtatacagctgagtgctatt	W13385
27886	gccagcccactgtccttgatatcga	L41154	70490	gaatgatgctcctgctctgaagaaa	AA170104	113094	tatacagctgagtgctattgcccctt	W13385
27887	agcccactgtccttgatatcgaatg	L41154	70491	tgatgctcctgctctgaagaaatct	AA170104	113095	cagctgagtgctattgcccttctta	W13385
27888	ccactgtccttgatatcgaatgtcc	L41154	70492	tgctcctgctctgaagaaatctgaa	AA170104	113096	tgaagaagacaccctattagactat	W13385
27889	atatcgaatgtcctttgaaggagac	L41154	70493	aatcgggattgccatgggctcaggg	AA170104	113097	ctgagtgctattgcccttcttacgg	W13385
27890	ccagcctctacatcttttcctggaa	L41154	70494	gattgccatgggctcagggactgca	AA170104	113098	tgtgacaccatgtctgggactggag	W13385
27891	gcctctacatcttttcctggaatat	L41154	70495	tggcatctttgggcaggatgaggat	AA170104	113099	gacaccatgtctgggactggagaag	W13385
27892	tctacatcttttcctggaatatgtt	L41154	70496	ctcagggactgcagtggctaagact	AA170104	113100	gctctgtgaacttcagatcgcatgg	W13385
27893	aatgcctatgtaggttcttagccct	L41154	70497	tgatgaattaagcccttcagcccag	AA170104	113101	tgaacttcagatcgcatggctatga	W13385
27894	tatgtaggttcttagccctgacagc	L41154	70498	tgaattaagcccttcagcccagaga	AA170104	113102	acttcagatcgcatggctatgagaa	W13385
27895	ggttcttagccctgacagctctgag	L41154	70499	aagcccttcagcccagagagatgcc	AA170104	113103	tcagatcgcatggctatgagaagcc	W13385
27896	tcttagccctgacagctctgaggtg	L41154	70500	ttcagcccagagagatgcctgctta	AA170104	113104	gctatgagaagcccaccatatggct	W13385
27897	cagctctgaggtgtcactgggcaaa	L41154	70501	cttaaatgcccgctgttttgctcga	AA170104	113105	gatatctatccctgagcttctcaca	M86377
27898	ctctgaggtgtcactgggcaaagat	L41154	70502	aaatgcccgctgttttgctcgagtt	AA170104	113106	tatccctgagcttctcacacatccg	M86377
27899	agatgactgcacatgggcagctccc	L41154	70503	ccgctgttttgctcgagttgaacct	AA170104	113107	ttcttcgtcatccaagacttttgac	M86377
27900	ctactgttcctctcatcctggagta	L41154	70504	tatcattacttactttcatgagtgc	AA067782	113108	gtgatgcacagctacgtacaaacca	M86377
27901	tgcagcccctaagcaaggatgctga	L12120	70505	tcattacttactttcatgagtgcac	AA067782	113109	tacgtacaaaccaagaacactagat	M86377
27902	cctgagcccagagtttctctgaagc	L12120	70506	ttattcagaccttaatgtgaaattt	AA067782	113110	actagattgtttcctctgccatact	M86377
27903	cacgtttcctcgtggagcctcagtt	L12120	70507	agaattcaatctttgttcttcacag	AA067782	113111	cctctgccatactcttgaatctctg	M86377
27904	tggagcctcagttttcctgtctgta	L12120	70508	aattcaatctttgttcttcacagag	AA067782	113112	ccatactcttgaatctctgaggaaa	M86377
27905	ctcagttttcctgtctgtatgcaaa	L12120	70509	ttcaatctttgttcttcacagagac	AA067782	113113	gtaaagttaaccactcatagcactg	M86377
27906	tttcctgtctgtatgcaaagcttgg	L12120	70510	ctttgttcttcacagagaccctggg	AA067782	113114	ttaaccactcatagcactgtgtata	M86377
27907	gaaatgtacctgacgtgctccatcc	L12120	70511	ttgttcttcacagagaccctgggag	AA067782	113115	tgcttttctgtaaatctgctaatgt	M86377
27908	tacctgacgtgctccatccctagga	L12120	70512	gttcttcacagagaccctgggagaa	AA067782	113116	taaataaagcgtcaccacagttcca	M86377
27909	tccatccctaggagtgctgagtccc	L12120	70513	tcttcacagagaccctgggagaagg	AA067782	113117	tgagcttctcacacatccgtatgtt	M86377
27910	gagtcccactgagaaagcgggcaca	L12120	70514	tctggtaaatacaccacagggtctg	AA067782	113118	tctcacacatccgtatgttcaaatt	M86377
27911	gggcacagacgcctcaaatggaacc	L12120	70515	tggtaaatacaccacagggtctgtt	AA067782	113119	aggcagccaaatggctaggggagcc	M86377
27912	agacgcctcaaatggaaccacaagt	L12120	70516	attacttactttcatgagtgcacat	AA067782	113120	gggtcaacttgttggtctgaattct	M86377
27913	cccagagtttctctgaagctttcca	L12120	70517	cttactttcatgagtgcacattgtc	AA067782	113121	gaattctcctaactccatcttgaaa	M86377
27914	ggcatcctgccgagaaggtcatgac	L12120	70518	tactttcatgagtgcacattgtcaa	AA067782	113122	tcctaactccatcttgaaaactgca	M86377
27915	tcatgaccctaatctggtacgagag	L12120	70519	ctttcatgagtgcacattgtcaaga	AA067782	113123	ctccatcttgaaaactgcaaaaact	M86377
27916	ccctaatctggtacgagagctcctt	L12120	70520	cacattgtcaagattcctggtatca	AA067782	113124	tcaagattcttcgtcatccaagact	M86377
27917	gctccttctggaactgggcaagctc	L12120	70521	caagattcctggtatcattttgctt	AA067782	113125	gtacaggatcgcctggaactggaaa	W13412
27918	cgcaaggctctgggtctctcaggag	L12120	70522	agattcctggtatcattttgcttta	AA067782	113126	caggatcgcctggaactggaaattc	W13412
27919	ggtctctcaggaggtctagatttgc	L12120	70523	atttcatctttgaattattcagacc	AA067782	113127	ttcgagacagctctgcagcttaaag	W13412
27920	gatttgcctgccctgtttctagctg	L12120	70524	agttacacatcaccagatggtcaga	L29479	113128	aatcccatggtcatgtgactccaga	W13412
27921	gctatcatcaccataccctggatcc	L33779	70525	acatcaccagatggtcagacaacta	L29479	113129	atggtcatgtgactccagatacttc	W13412
27922	tggacaactacagacacacttactc	L33779	70526	taattttgctccaagcatgtaatcc	L29479	113130	atgtgactccagatacttctgggaa	W13412
27923	ctcacatacaactatgagggaaaag	L33779	70527	ttttgctccaagcatgtaatccttc	L29479	113131	tgactccagatacttctgggaatgg	W13412
27924	ggaaaaggctcggctgctggctctg	L33779	70528	tgctccaagcatgtaatccttcaaa	L29479	113132	ctccagatacttctgggaatggttg	W13412
27925	tgctgtagtgacctacaggaagaag	L33779	70529	catgtaatccttcaaagtttgtgct	L29479	113133	cagatacttctgggaatggttgaat	W13412
27926	tttttggaccatctggagcccaaat	L33779	70530	gtaatccttcaaagtttgtgctcct	L29479	113134	atacttctgggaatggttgaataca	W13412
27927	gaccatctggagcccaaatttagga	L33779	70531	atccttcaaagtttgtgctcctatg	L29479	113135	agattatgaacgcctcagggatgtt	W13412
27928	tccctgcttttcactgtaaaccagg	L33779	70532	caaagtttgtgctcctatgtttgta	L29479	113136	ttatgaacgcctcagggatgttggc	W13412
27929	tcccatctcggtctgcagaatctcc	L33779	70533	tgctcctatgtttgtattgaactaa	L29479	113137	attctgagctgccatgtgggtgctg	W13412
27930	ctcggtctgcagaatctccatgcaa	L33779	70534	tatagcacttgtgtctgataagatt	L29479	113138	agctgccatgtgggtgctgggaatc	W13412
27931	ctgcagaatctccatgcaaatgcac	L33779	70535	agcacttgtgtctgataagatttct	L29479	113139	tgccatgtgggtgctgggaatctag	W13412
27932	catgcaaatgcacatttacagagaa	L33779	70536	ttacctgaatacatcaaacagaaat	L29479	113140	gggaatctaggccctcagatcaatg	W13412
27933	actacagacacacttactcagagtg	L33779	70537	cctgaatacatcaaacagaaattac	L29479	113141	aatctaggccctcagatcaatgatg	W13412
27934	gacacacttactcagagtggtacaa	L33779	70538	ttacagtgtctttcttccatccttc	L29479	113142	ctaggccctcagatcaatgatgatg	W13412
27935	ggtacaatttcattcagccccgact	L33779	70539	tgacttttggctggctttcaagta	L29479	113143	ggccctcagatcaatgatgatgttt	W13412
27936	atttcattcagccccgacttggtga	L33779	70540	tttggctggctttcaagtaagtgat	L29479	113144	aatttcgagacagctctgcagctta	W13412
27937	ttcagccccgacttggtgatgaaac	L33779	70541	tcagaaagcctttctattaaacaga	L29479	113145	ccagcttccccaagatgtgattcca	W13263
27938	cttgctcaagactacgtcctcacat	L33779	70542	ttcagttacctaatatagtggtcat	L29479	113146	agcttccccaagatgtgattccagc	W13263
27939	caagactacgtcctcacatacaact	L33779	70543	atctaattttgctccaagcatgtaa	L29479	113147	ctcagattccttccttcatggtgca	W13263
27940	tacgtcctcacatacaactatgagg	L33779	70544	aaagtggcacaggccacctgcaagc	U49878	113148	ttccttccttcatggtgcaagatat	W13263
27941	attatcaaatagaaccacagtatcc	W79966	70545	gcacaggccacctgcaagctctgag	U49878	113149	ttccttcatggtgcaagatattggt	W13263
27942	ttatcaaatagaaccacagtatcca	W79966	70546	gctgtgcctaagcacttgcttggga	U49878	113150	gtttcatttctcctctcgttggtgc	W13263
27943	actaaatggccctgcatcgcgcctg	W79966	70547	cctaagcacttgcttgggatggccc	U49878	113151	ctctcgttggtgcttccagtgacaa	W13263
27944	ctaaatggccctgcatcgcgcctgc	W79966	70548	atggccctgggtgagtctgcctgcc	U49878	113152	ctcgttggtgcttccagtgacaact	W13263
27945	taaatggccctgcatcgcgcctgcg	W79966	70549	gagtctgcctgccagcagagctgat	U49878	113153	cgttggtgcttccagtgacaactct	W13263
27946	aatggccctgcatcgcgcctgcgag	W79966	70550	ctttgttctacctctgaggacagag	U49878	113154	ggtgcttccagtgacaactctactt	W13263
27947	atggccctgcatcgcgcctgcgagt	W79966	70551	tctacctctgaggacagagagcagt	U49878	113155	tgcttccagtgacaactctacttcc	W13263
27948	atcgcgcctgcgagtggctggcagc	W79966	70552	cttatgccagcagagcatttgctgg	U49878	113156	tccagtgacaactctacttcccttc	W13263

TABLE 1

SEQ ID NO	sequence	DBAxnID
27949	tggctggcagccaaatcactgcccc	W79966
27950	tgcccccgtgcagattgttttcatc	W79966
27951	cccccgtgcagattgttttcatcca	W79966
27952	ccccgtgcagattgttttcatccat	W79966
27953	ctatccccgactaaatggccctgca	W79966
27954	tatccccgactaaatggccctgcat	W79966
27955	atccccgactaaatggccctgcatc	W79966
27956	tccccgactaaatggccctgcatcg	W79966
27957	cccgactaaatggccctgcatcgcg	W79966
27958	ccgactaaatggccctgcatcgcgc	W79966
27959	cgactaaatggccctgcatcgcgcc	W79966
27960	gactaaatggccctgcatcgcgcct	W79966
27961	gccagctcgcaggtgaccttaagtg	D43963
27962	tcgcaggtgaccttaagtggaactc	D43963
27963	cttctgaactacacttctgagctcc	D43963
27964	cctccaaatggctgatgaccctcag	D43963
27965	tgatgaccctcaggtcccttaagtg	D43963
27966	agacccctattcttcataaggctg	D43963
27967	cttattcttcataaggctgaggcaa	D43963
27968	agcgctgacatttctctttcgagtg	D43963
27969	attagattctgccaactcatgaaat	D43963
27970	ttctgccaactcatgaaatgaagaa	D43963
27971	aatcttttcaacagtttcatgtttg	D43963
27972	ttcaacagtttcatgtttggggctg	D43963
27973	ggaactccagcccacagggtcatct	D43963
27974	ccagcccacagggtcatcttgcaaa	D43963
27975	tgggcatctcggatagggagtatct	D43963
27976	gttgactcttggcgacgaagcaaag	D43963
27977	tcttggcgacgaagcaaaggtcaca	D43963
27978	aggcttgtcacactgatttcaatgc	D43963
27979	gtcacactgatttcaatgcaaaata	D43963
27980	agtctgacccgtagtcttgtacaag	D43963
27981	tctctcgaatagtcatgtcaaattt	U37459
27982	ctcctcctgctcaaaattgtgacaa	U37459
27983	cctctagctcttgggggaatccctg	U37459
27984	atccctggagaactcagcatctcga	U37459
27985	ggagaactcagcatctcgagcaggt	U37459
27986	ctcagcatctcgagcaggttcgaat	U37459
27987	ggttctttactgttgtgatcagcat	U37459
27988	ttgtgatcagcatctgccccagtaa	U37459
27989	tcagcatctgccccagtaaagagca	U37459
27990	aagagcacacttctttggaagttct	U37459
27991	tgacctctctgatgtctcggtcgtt	U37459
27992	tgtctcggtcgtttgtgttatacaa	U37459
27993	gctgcccagcacatttcagatgtcg	U37459
27994	gatgtcgttccagaccctctgttca	U37459
27995	gttccagaccctctgttcactccag	U37459
27996	gaccctctgttcactccagagaatc	U37459
27997	ctgttcactccagagaatcctgaaa	U37459
27998	tcccaggtccagacacagcctctag	U37459
27999	gtccagacacagcctctagctcttg	U37459
28000	acacagcctctagctcttgggggaa	U37459
28001	gttgaccattctcaaacaacaccca	U37709
28002	ctcttttcagactgtgagctggagg	U37709
28003	ttttaacagaagacatcctgcccat	U37709
28004	cagaagacatcctgcccattgcaaa	U37709
28005	tgcccattgcaaaagcaatgtgtct	U37709
28006	tcttccaccagtcaagacacgtggc	U37709
28007	accagtcaagacacgtggcagggtc	U37709
28008	cagggtcttgctgttgtttagttct	U37709
28009	gttgtttagttcttccttgcacaga	U37709
28010	tagttcttccttgcacagaatatgt	U37709
28011	ttccttgcacagaatatgtaacgtt	U37709
28012	atttgcattctggaattgagtatct	U37709
28013	tcagactgtgagctggaggaaccct	U37709
28014	taccgcagaggccgtgtaagatcag	U37709
28015	ttaactcagacatcacgtgccagtt	U37709
28016	tcacgtgccagttgattgtttgcca	U37709

SEQ ID NO	sequence	DBAxnID
70553	ttgatctgcgtctgtggtcatctgc	U49878
70554	tgcgtctgtggtcatctgccaacga	U49878
70555	ccaacgaaatctccactctgtgcgt	U49878
70556	ctctgagacccatgttcgcctgaac	U49878
70557	gacccatgttcgcctgaaccagaac	U49878
70558	tgttcgcctgaaccagaacggaggg	U49878
70559	agccggcatcacagaggtccctgtc	U49878
70560	agaggtccctgtccctcatgataag	U49878
70561	ccctgtccctcatgataagggctag	U49878
70562	cagctccccagagctgtgcctaagc	U49878
70563	cccagagctgtgcctaagcacttgc	U49878
70564	atggaccacttgtgtcccagcaaac	D86214
70565	gaccacttgtgtcccagcaaaccca	D86214
70566	tcatgtacattgcactttgatctgt	D86214
70567	acattgcactttgatctgtaactga	D86214
70568	ttgcactttgatctgtaactgagcg	D86214
70569	cactttgatctgtaactgagcgacc	D86214
70570	ctgtaactgagcgaccctggggtct	D86214
70571	taactgagcgaccctggggtctgct	D86214
70572	agcgaccctggggtctgctatagag	D86214
70573	gaccctggggtctgctatagagctg	D86214
70574	gctgtttctttctgtggaaagtagt	D86214
70575	gaaactgtggctcctcaatctcgtg	D86214
70576	ttgtgtcccagcaaacccagctttg	D86214
70577	tggctcctcaatctcgtgccgaatt	D86214
70578	attttcattgtcatagcaaggggc	D86214
70579	atagcaaggggccacgtgatcagg	D86214
70580	aagtttcagaccaactgtcttctgt	D86214
70581	tttcagaccaactgtcttctgtgaa	D86214
70582	tttccttcagtagactgtaaccata	D86214
70583	gactgtaaccataacttcaattatt	D86214
70584	tatctgtcatgtacattgcactttg	D86214
70585	agtcaaacactgcaatggccaccac	U44955
70586	agagcagcagactccagccagcaag	U44955
70587	cggacgtgccagaccaggtgacttg	U44955
70588	tgccagaccaggtgacttggccatc	U44955
70589	accaggtgacttggccatctagcca	U44955
70590	ggccatctagccatagtcattccag	U44955
70591	ctagccatagtcattccagatacct	U44955
70592	atagtcattccagatacctttataa	U44955
70593	cactcaaaaagcatttctaatcaac	U44955
70594	atttctaatcaacaggtagaaagag	U44955
70595	ggattcccctgagggaaacactgag	U44955
70596	atgcttgctgttcttgtccctgtgg	U44955
70597	ttcagcagcatccagccctgatggc	U44955
70598	agcatccagccctgatggccgcaag	U44955
70599	cagccctgatggccgcaaggggctc	U44955
70600	tgatggccgcaaggggctcattgac	U44955
70601	cattgacagcagtggcagcagctta	U44955
70602	tggcagcagcttacaggagagtgcc	U44955
70603	ggccaccacagtggagatgtactcg	U44955
70604	caagtccagtaacggacgtgccaga	U44955
70605	cctaagccatgctcagcagtaccga	U68064
70606	tcagcagtaccgatggtaccagatg	U68064
70607	cagtgacaagcaccgagagtttgcc	U68064
70608	caagcaccgagagtttgccatggaa	U68064
70609	gtttgccatggaagctgcctgtatc	U68064
70610	agctgcctgtatctctgacaccttg	U68064
70611	gctcgacacacactgatctgcaggc	U68064
70612	ctgatctgcaggcacatgagcagat	U68064
70613	cacatgagcagatcacacatcttcg	U68064
70614	agcagatcacacatcttcgagctct	U68064
70615	atcttcgagctctgccacagccttt	U68064
70616	cctgagctggcctcagagttttctc	U68064
70617	ccagatgctataccaggctggtgtg	U68064
70618	cctgctggcagatgtctgcttgaac	U68064
70619	tgtctgcttgaacttcttgcccagc	U68064
70620	cctcatcttcatcatcattctgtac	U68064

SEQ ID NO	sequence	DBAxnID
113157	cttccccaagatgtgattccagcca	W13263
113158	tttctttgtggacacaacagggcat	W13263
113159	tccccaagatgtgattccagccagc	W13263
113160	agatgtgattccagccagccagccc	W13263
113161	atgtgattccagccagccagcccat	W13263
113162	gtgattccagccagccagcccatct	W13263
113163	catctcttctcagattccttccttc	W13263
113164	tcttctcagattccttccttcatgg	W13263
113165	ttctcagattccttccttcatggtg	W13263
113166	gtcactgattcggggcaaagcaagc	W41974
113167	caaagcaagctctttgtcaacactc	W41974
113168	ctgcgctccaggtgccacatcatct	W41974
113169	tccaggtgccacatcatctcacagt	W41974
113170	tgccacatcatctcacagttcaacc	W41974
113171	cacatcatctcacagttcaaccaag	W41974
113172	atcatctcacagttcaaccaaggct	W41974
113173	cagttcaaccaaggcttgtatgatt	W41974
113174	ttcaaccaaggcttgtatgattgcg	W41974
113175	gattgcgtcatagcgacagatgctg	W41974
113176	tgcgtcatagcgacagatgctgaaa	W41974
113177	tctgatccagagtcaggtgtggctc	W41974
113178	ctctttgtcaacactctagagaggg	W41974
113179	cgtcttttcctggaacagttcagca	W41974
113180	cttttcctggaacagttcagcattc	W41974
113181	gaacagttcagcattccttcctgcg	W41974
113182	cagttcagcattccttcctgcgtgc	W41974
113183	ccttcctgcgtgctcaacggagaac	W41974
113184	tgcgtgctcaacggagaactcccac	W41974
113185	ctcaacggagaactcccactgcgct	W41974
113186	agcccgttccacgatgccttccagt	W13189
113187	ccgttccacgatgccttccagtacg	W13189
113188	ttcagggagttcatcgggggccaca	W13189
113189	gggccacaatctttctccttcgact	W13189
113190	ggccacaatctttctccttcgactt	W13189
113191	ccacaatctttctccttcgacttct	W13189
113192	cacaatctttctccttcgacttctt	W13189
113193	gagcacccgtggaagcagaagccga	W13189
113194	tggcttcgcttcgttagatactgga	W13189
113195	gcttcgcttcgttagatactggatt	W13189
113196	cttcgcttcgttagatactggattc	W13189
113197	tcgcttcgttagatactggattcac	W13189
113198	gttccacgatgccttccagtacgtc	W13189
113199	ttccacgatgccttccagtacgtct	W13189
113200	ccacgatgccttccagtacgtcttc	W13189
113201	cacgatgccttccagtacgtcttct	W13189
113202	cgatgccttccagtacgtcttctcc	W13189
113203	gatgccttccagtacgtcttctcct	W13189
113204	tgccttccagtacgtcttctccttc	W13189
113205	ttccagtacgtcttctccttccgag	W13189
113206	cagcaccttgaagtctctggaagag	M38651
113207	gaaggaccacatccaccgtgtcctg	M38651
113208	gcatctctacaacatgaaatgcaag	M38651
113209	tgtgcccctctatgacctgctcctg	M38651
113210	gctcctggagatgttggatgcccac	M38651
113211	cagtcgcatgggagtgccccccagag	M38651
113212	cagctccacttcagcacattcctta	M38651
113213	cacttcagcacattccttacaaacc	M38651
113214	cacgatctgagagctcccaggctcc	M38651
113215	aggttctgagaatccctgcaacatt	M38651
113216	caacattttacccatgtcatgtatg	M38651
113217	tttacccatgtcatgtatgactagc	M38651
113218	ccacatccaccgtgtcctggacaag	M38651
113219	ccaccgtgtcctggacaagatcaca	M38651
113220	tttgatccacctgatggccaaagct	M38651
113221	gactctgcagcagcagcatcgccgc	M38651
113222	tcagctccttctcattctttcccat	M38651
113223	cattctttcccatatccggcacatg	M38651
113224	ttcccatatccggcacatgagtaac	M38651

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28017	tggtgaatatcccacagggttaaag	U37709	70621	catcattctgtacgaagggctcctg	U68064	113225	tatccggcacatgagtaacaaaggc	M38651
28018	cgttcctacataatccctcagagcg	U37709	70622	gaataccttccacaacattgctctg	U68064	113226	ctgctataatttcaccatgacgaaa	W13350
28019	tacataatccctcagagcgagattg	U37709	70623	cttccacaacattgctctggagacc	U68064	113227	ctataatttcaccatgacgaaacaa	W13350
28020	atccctcagagcgagattgcagtgc	U37709	70624	tgctctggagaccagtgacaagcac	U68064	113228	aactcgtggactcattttgaagaca	W13350
28021	atgtgaggaccccgcttcctacatg	U17132	70625	gtgaacggcacagtcacatcaaacg	AA118729	113229	gaagacataccagaaccctttccag	W13350
28022	cgcttcctacatgcaggtggccaag	U17132	70626	gaacggcacagtcacatcaaacgga	AA118729	113230	gacataccagaaccctttccagcac	W13350
28023	cgcctgcagaactcagtgtgccctg	U17132	70627	ttgtccccaaagaatctgctttctg	AA118729	113231	ataccagaaccctttccagcactgc	W13350
28024	cagaactcagtgtgccctgaagcag	U17132	70628	gtccccaaagaatctgctttctgct	AA118729	113232	tttccagcactgcccatcatgagag	W13350
28025	acggccacaggtgcattctgggaag	U17132	70629	ccccaaagaatctgctttctgctct	AA118729	113233	ccagcactgcccatcatgagagcaa	W13350
28026	tgaaggcagtctccctgctgtggtg	U17132	70630	agaatctgctttctgctctatcttt	AA118729	113234	ctgcccatcatgagagcaacagctg	W13350
28027	cagtctccctgctgtggtgatagag	U17132	70631	aatctgctttctgctctatctttca	AA118729	113235	acagctgagttctgccctcaaagaa	W13350
28028	ccctgctgtggtgatagagattaaa	U17132	70632	ctgctctatctttcagcactagcaa	AA118729	113236	gctgagttctgccctcaaagaaggt	W13350
28029	gccaaacaaacagcccgaatcatct	U17132	70633	gctctatctttcagcactagcaatt	AA118729	113237	gagttctgccctcaaagaaggtcta	W13350
28030	gcccgaatcatctttgtgagtcttg	U17132	70634	tctatctttcagcactagcaatttt	AA118729	113238	tttcaccatgacgaaacaagtatta	W13350
28031	atcatctttgtgagtcttgaaaaag	U17132	70635	tatctttcagcactagcaattttttc	AA118729	113239	ttctgccctcaaagaaggtctaagt	W13350
28032	gacttttgcttttaaactgcaagag	U17132	70636	aatacagtttatgctctttgatttc	AA118729	113240	acacctgttctgatcagaaagacat	W13350
28033	ctacatgcaggtggccaagaccatt	U17132	70637	acggcacagtcacatcaaacggagc	AA118729	113241	aagacatcttatattcattccttta	W13350
28034	tgtctttcataatcatggaatccac	U17132	70638	gtcacatcaaacggagcagactccc	AA118729	113242	acatcttatattcattccttttacct	W13350
28035	tcataatcatggaatccacgctacc	U17132	70639	cacatcaaacggagcagactcccct	AA118729	113243	tgtaagcactcagtaaactcgtgga	W13350
28036	tcatggaatccacgctaccaccatc	U17132	70640	aagtcttcgtaatggatcggaagct	AA118729	113244	aagcactcagtaaactcgtggactc	W13350
28037	caccatccagcctgaattcgctagc	U17132	70641	tgactgattattgtccccaaagaat	AA118729	113245	cactcagtaaactcgtggactcatt	W13350
28038	cgtcggctctaagtcaagtgtgctc	U17132	70642	tgattattgtccccaaagaatctgc	AA118729	113246	tcagtaaactcgtggactcattttg	W13350
28039	gtcaagtgtgctcccgtgtgagctc	U17132	70643	attattgtccccaaagaatctgctt	AA118729	113247	tatgctcgtgccttcctgatggagc	W13425
28040	tgagctcgcctgcagaactcagtgt	U17132	70644	tattgtccccaaagaatctgctttc	AA118729	113248	gctcgtgccttcctgatggagcagg	W13425
28041	catcttccatgctgggacacaagcc	AA154457	70645	agattttatcgtgctccggagatca	U48737	113249	gtcactgcactgctgtccctggctc	W13425
28042	tcttccatgctgggacacaagccac	AA154457	70646	tatgactacggtatcgatatgtggt	U48737	113250	gctctgggccagccagtgttgcaga	W13425
28043	atcagctcttggtgcccaccaagac	AA154457	70647	ctaatgttggacccagctaagcgaa	U48737	113251	ctgggccagccagtgttgcagaacc	W13425
28044	cttagcgcctggtgcctccatcatg	AA154457	70648	gacccagctaagcgaattagcatca	U48737	113252	gtgttgcagaacctggctatgactg	W13425
28045	tagcgcctggtgcctccatcatggc	AA154457	70649	cgaattagcatcaaccaggccctgc	U48737	113253	gtctccctcactggcaaggtgttgc	W13425
28046	gcgcctggtgcctccatcatggcta	AA154457	70650	attagcatcaaccaggccctgcagc	U48737	113254	tccctcactggcaaggtgttgcctg	W13425
28047	ggtgcctccatcatggctaaagcat	AA154457	70651	agcatcaaccaggccctgcagcatg	U48737	113255	attgcggctaagcgtgcaggtgtga	W13425
28048	tgcctccatcatggctaaagcatgg	AA154457	70652	aaccaggccctgcagcatgcattca	U48737	113256	gcggctaagcgtgcaggtgtgacct	W13425
28049	cctccatcatggctaaagcatgggc	AA154457	70653	ctgcagcatgcattcatccaggaaa	U48737	113257	aagcgtgcaggtgtgacctgcatca	W13425
28050	tccatcatggctaaagcatgggccg	AA154457	70654	tgcagcatgcattcatccaggaaaa	U48737	113258	ggtgtgacctgcatcattctgcctg	W13425
28051	ctaaagcatgggccgtggggacact	AA154457	70655	cagcatgcattcatccaggaaaaaa	U48737	113259	aatgacttcctagtcacctcacaca	W13425
28052	catgggccgtggggacactgacgac	AA154457	70656	agcatgcattcatccaggaaaaaat	U48737	113260	gtgacctgcatcattctgcctgctg	W13425
28053	ttccatgctgggacacaagccacat	AA154457	70657	atcgatatgtggtctgtaggttgta	U48737	113261	cacctgcatgtgcctgagggtgcta	W13425
28054	tgggacacaagccacatcttcctgt	AA154457	70658	ttggctgacttgattgggtgccagc	U48737	113262	acccccaaggatggtcccagcgcag	W13425
28055	acacaagccacatcttcctgtcctg	AA154457	70659	gacttgattgggtgccagcgacttc	U48737	113263	aaggatggtcccagcgcaggctgta	W13425
28056	acaagccacatcttcctgtcctggg	AA154457	70660	tgccagcgacttcctgaagatcaac	U48737	113264	ggtcccagcgcaggctgtactattg	W13425
28057	tatatatgtcatcagctcttggtgc	AA154457	70661	gtacaccagctaaaggacttgttgg	U48737	113265	agcgcaggctgtactattgtcactg	W13425
28058	tatatgtcatcagctcttggtgccc	AA154457	70662	ttgttggaccagatcctaatgttgg	U48737	113266	actattgtcactgcactgctgtccc	W13425
28059	tatgtcatcagctcttggtgcccac	AA154457	70663	ttggaccagatcctaatgttggacc	U48737	113267	attgtcactgcactgctgtccctgg	W13425
28060	tcatcagctcttggtgcccaccaag	AA154457	70664	gaccagatcctaatgttggacccag	U48737	113268	gtggcaccctcttgacatgagcgtc	W13427
28061	atgttgtgcagctttgcttctttgc	U31566	70665	gaagccaaagcgcattgttattcga	AA067927	113269	gcaccctcttgacatgagcgtcgct	W13427
28062	tgcagctttgcttctttgcctctct	U31566	70666	aaagcgcattgttattcgaggccat	AA067927	113270	catctcctctgggatccatcttaag	W13427
28063	cgctccttcgttgtaaatatcgcta	U31566	70667	cattctctctcaggatgctgcctgc	AA067927	113271	ctctgggatccatcttaagcacatc	W13427
28064	aatatcgctagtgatcgttgccaaa	U31566	70668	tctctctcaggatgctgcctgcagt	AA067927	113272	tgggatccatcttaagcacatcacc	W13427
28065	cgttgccaaatgacgttctggatgg	U31566	70669	ggatgctgcctgcagtcagagaaac	AA067927	113273	tcttaagcacatcaccagcctggag	W13427
28066	caaatgacgttctggatgggcctgt	U31566	70670	tgctgcctgcagtcagagaaacatg	AA067927	113274	taagcacatcaccagcctggaggtg	W13427
28067	caccgggcctgcctctctttgtcgt	U31566	70671	ccgtgtcgtgccaatgacctctaga	AA067927	113275	gcacatcaccagcctggaggtgatc	W13427
28068	ttttcgtctcctgagcatcggagct	U31566	70672	tgtcgtgccaatgacctctagatta	AA067927	113276	caccagcctggaggtgatcaaggca	W13427
28069	tcgtctcctgagcatcggagcttgg	U31566	70673	cgtgccaatgacctctagattagga	AA067927	113277	cagcctggaggtgatcaaggcagga	W13427
28070	tctcctgagcatcggagcttggaac	U31566	70674	gccaatgacctctagattaggatta	AA067927	113278	caaggcaggacgccactgtgcggtt	W13427
28071	cctgagcatcggagcttggaactca	U31566	70675	aatgacctctagattaggattaatt	AA067927	113279	aggacgccactgtgcggttccccag	W13427
28072	agcttggaactcagcagtttcacgt	U31566	70676	tactatgaccttgaaggatcttctt	AA067927	113280	ccctcttgacatgagcgtcgctgcg	W13427
28073	agctttgcttctttgcctctctctc	U31566	70677	ggacctccgtcaagaccagcgcatt	AA067927	113281	tgacatgagcgtcgctgcggtgttt	W13427
28074	ccgcactgctttcgtgaattttgta	U31566	70678	cctccgtcaagaccagcgcattgag	AA067927	113282	gcttctgggcctgttgtttctgcca	W13427
28075	cgatattgtcagccttctaaaagca	U31566	70679	ccgtcaagaccagcgcattgagcag	AA067927	113283	ggttgctgtcaccagcgctggtccc	W13427
28076	tattgtcagccttctaaaagcaagt	U31566	70680	tcaagaccagcgcattgagcagatc	AA067927	113284	tgctgtcaccagcgctggtcccgaa	W13427
28077	cagccttctaaaagcaagtggagaa	U31566	70681	agaccagcgcattgagcagatcttt	AA067927	113285	tgtcaccagcgctggtcccgaagaa	W13427
28078	tatggccatgtacacgttctgacaa	U31566	70682	catgaatgccattctctctcaggat	AA067927	113286	cagcgctggtcccgaagaaagcgat	W13427
28079	gttctgacaactggtggcaaatttc	U31566	70683	gaatgccattctctctcaggatgct	AA067927	113287	gaccatctcctctgggatccatctt	W13427
28080	tttcgctccttcgttgtaaatatcg	U31566	70684	tgccattctctctcaggatgctgcc	AA067927	113288	agccagtctctgtgcctcagtaagc	J04103
28081	tttgggatcaaccgccctgctgtat	W80298	70685	acaagccgagaccgggccatgcgcg	AA067929	113289	tctctgtgcctcagtaagctgacca	J04103
28082	gctgtattagctccagaggatgggc	W80298	70686	caagccgagaccgggccatgcgcgc	AA067929	113290	gtactggctggcttcactggaagcg	J04103
28083	acctgtgtccatcacatcaagcgcc	W80298	70687	ccattcttttacggcggatgtggcg	AA067929	113291	ttcactggaagcggaccaatccagt	J04103
28084	gtccatcacatcaagcgccaggaca	W80298	70688	caactttgacacggaagagtactgc	AA067929	113292	gagctactctctgacaagtcctgtc	J04103

TABLE 1

SEQ ID NO	sequence	DBAxnID
28085	cacatcaagcgccaggacatcattc	W80298
28086	aagcgccaggacatcattctcaagt	W80298
28087	caggacatcattctcaagtgggagc	W80298
28088	atcattctcaagtgggagctagggg	W80298
28089	gtctttctcgctgagtgctacaacc	W80298
28090	ctcgctgagtgctacaaccttctga	W80298
28091	gagtgctacaaccttctgaatgatc	W80298
28092	tacaaccttctgaatgatcaggaca	W80298
28093	ttagctccagaggatgggctggcca	W80298
28094	aagatgctcgtggctgtcaaggcac	W80298
28095	ctggccatgtccctacacttcatga	W80298
28096	atgtccctacacttcatgacactgg	W80298
28097	ctacacttcatgacactgggtggca	W80298
28098	tccggactccagggccacatcatgg	W80298
28099	ctccagggccacatcatggagaacc	W80298
28100	tacttcagtgatacctgtgtccatc	W80298
28101	agtgatacctgtgtccatcacatca	W80298
28102	ctatttccagattggtgccattcag	U17282
28103	tggtgccattcagtcatttgccggc	U17282
28104	caccgtgttcttcatcagcatcgag	U17282
28105	catcagcatcgagatgtgccagatc	U17282
28106	gatgtgccagatcgcagatgtcctc	U17282
28107	cgtgttccaggtctgcattggctgc	U17282
28108	ctgcattggctgcttcctgtgctac	U17282
28109	tggctgcttcctgtgctactgccca	U17282
28110	cttcctgtgctactgcccagggatg	U17282
28111	gtgctactgcccagggatgcctaac	U17282
28112	gcctaacatcttcaacttcatgccc	U17282
28113	catcttcaacttcatgcccatccgg	U17282
28114	ctttgctgactacttcacggccatg	U17282
28115	tctcatctttgtctatgatgagatc	U17282
28116	tgactacttcacggccatggcgcag	U17282
28117	ccatctacaagatcttcaagacagc	U17282
28118	acaagatcttcaagacagctacggc	U17282
28119	agacagctacggccaggaatggaca	U17282
28120	atttggtcagcgcctgtaccagcag	U17282
28121	tcagcgcctgtaccagcagtacacc	U17282
28122	ctgttacaccgtgttcttcatcagc	U17282
28123	gctctttgactgccttaccacgtca	W81719
28124	tctttgactgccttaccacgtcatt	W81719
28125	taccacgtcattgacacacaggctg	W81719
28126	gaatgttatgtccatcagtgacgga	W81719
28127	gtcacgtgtcagatgtgctgcacag	W81719
28128	tgtcagatgtgctgcacaggccaga	W81719
28129	taccatgaaactcggacttggctca	W81719
28130	accatgaaactcggacttggctcag	W81719
28131	catgaaactcggacttggctcagta	W81719
28132	atgaaactcggacttggctcagtac	W81719
28133	gaaactcggacttggctcagtacca	W81719
28134	aaactcggacttggctcagtaccag	W81719
28135	ctttgactgccttaccacgtcattg	W81719
28136	ttgactgccttaccacgtcattgac	W81719
28137	tgactgccttaccacgtcattgaca	W81719
28138	actgccttaccacgtcattgacaca	W81719
28139	ctgccttaccacgtcattgacacac	W81719
28140	gccttaccacgtcattgacacacag	W81719
28141	ccttaccacgtcattgacacacagg	W81719
28142	ttaccacgtcattgacacacaggct	W81719
28143	ctgttgcttccctatgtcagcagtg	U25844
28144	cttccctatgtcagcagtgagctga	U25844
28145	gcagctgctacagctggcatgatga	U25844
28146	attcaccatgttaagaccaatggaa	U25844
28147	aatggaattctgttctgtggccggt	U25844
28148	tctccctgagcaaagggtattcctg	U25844
28149	attcctgtcagtctttgaccctctc	U25844
28150	tctctccatggtttgctgtaaccca	U25844
28151	ctccatggtttgctgtaacccaagt	U25844
28152	ctgtaacccaagtgaccttatccat	U25844

SEQ ID NO	sequence	DBAxnID
70689	aactttgacacggaagagtactgca	AA067929
70690	tggcagcgtgtcaacccaaagttta	AA067929
70691	tttactcaagactaccagtgaacct	AA067929
70692	ttactcaagactaccagtgaacctc	AA067929
70693	actcaagactaccagtgaacctctt	AA067929
70694	ctcaagactaccagtgaacctcttc	AA067929
70695	taccagtgaacctcttccccaagat	AA067929
70696	tcttccccaagatcctgataaactt	AA067929
70697	ccatgcgcgcaatgatctcccgctg	AA067929
70698	atctcccgctggtacttttgatgtc	AA067929
70699	tcccgctggtacttttgatgtcact	AA067929
70700	cccgctggtacttttgatgtcactg	AA067929
70701	tacttttgatgtcactgaagggaag	AA067929
70702	ttttgatgtcactgaagggaagtgt	AA067929
70703	tgtcccattcttttacggcggatgt	AA067929
70704	gtcccattcttttacggcggatgtg	AA067929
70705	accagaacctcaaggagaactgcgc	U52523
70706	aggagaactgcgctccaatctgcaa	U52523
70707	ccgggcctgatgcctacgaagaagt	U52523
70708	ctgatgcctacgaagaagtaacaga	U52523
70709	gcttcaacttgcgcatcggaaggcc	U52523
70710	acttgcgcatcggaaggcccaaagg	U52523
70711	aacgagtgctgtgccagttatagcc	U52523
70712	tgctgtgccagttatagcctgcact	U52523
70713	gccagttatagcctgcactcggtgg	U52523
70714	ggactcctggaaccaccatattacg	U52523
70715	ccaccatattacgctgtgcagtgtg	U52523
70716	tattacgctgtgcagtgtgttatgt	U52523
70717	ctccaatctgcaaggaagccttctc	U52523
70718	gggttctcaggagcatctcggtgcc	U52523
70719	tcaggagcatctcggtgcctgcgcc	U52523
70720	ctgacacttacgctgtggtgcagaa	U52523
70721	cttacgctgtggtgcagaagcgtgg	U52523
70722	cacgtgcccagcgaccggtggcaca	U52523
70723	cccagcgaccggtggcacacacgga	U52523
70724	aggacgcacaggggacaacggcact	U52523
70725	agaccacacagccagacacagccaa	U52826
70726	cacagccagacacagccaatgaagt	U52826
70727	tggtcacgttgctcatctaccgcat	U52826
70728	cgttgctcatctaccgcatgaagaa	U52826
70729	tcatctaccgcatgaagaagaagga	U52826
70730	acgaaggcagctacaccttggaaga	U52826
70731	gcagctacaccttggaagagcccaa	U52826
70732	agcccaagcaggcaagcgtcacata	U52826
70733	caagcgtcacataccagaagcccga	U52826
70734	accagaagcccgacaagcaggagga	U52826
70735	gagagccacagtgcctcctgcagcc	U52826
70736	ggcccaatcctgggcctgggcctgg	U52826
70737	cagacacagccaatgaagtggtggc	U52826
70738	gccttggcctccacgacaatgccat	U52826
70739	acgacaatgccatcgactcgggcag	U52826
70740	atgccatcgactcgggcagctctgc	U52826
70741	tcgactcgggcagctctgctgccca	U52826
70742	ctgcccagctccttcagaagagcat	U52826
70743	agctccttcagaagagcatactaga	U52826
70744	ccttcctggtcacgttgctcatcta	U52826
70745	gtatacaatgatgcccatatcctgg	AA067960
70746	atacaatgatgcccatatcctggag	AA067960
70747	catggcttctcccaaacttaaattg	AA067960
70748	ttctcctaagaaatcaaagtacatg	AA067960
70749	aagtacatgactccaatgcagcaga	AA067960
70750	gtacatgactccaatgcagcagaga	AA067960
70751	acatgactccaatgcagcagagact	AA067960
70752	atgactccaatgcagcagagactga	AA067960
70753	ctccaatgcagcagagactgaatga	AA067960
70754	ggtcgccgccttagtgctatatttc	AA067960
70755	ccttagtgctatatttctgagactc	AA067960
70756	cccctctagatcagagctgcctgac	AA067960

SEQ ID NO	sequence	DBAxnID
113293	ctctctgacaagtcctgtcaatctt	J04103
113294	tcctgtcaatctttcatcagctgga	J04103
113295	gtatgtgacctgcagaacttgctgg	J04103
113296	cagaacttgctgggcttcactccgg	J04103
113297	ttgctgggcttcactccggaggaac	J04103
113298	ggcttcactccggaggaactgcatg	J04103
113299	gtccagcctgatacagaagactgag	J04103
113300	tgcctcagtaagctgaccatgtcct	J04103
113301	atgtccttcaaggactacatccaag	J04103
113302	ttcaaggactacatccaagagagga	J04103
113303	gactacatccaagagaggagcgacc	J04103
113304	agcgacccagtcgagcaaggcaaac	J04103
113305	ccagttattcctgcagcagtactgg	J04103
113306	attcctgcagcagtactggctggct	J04103
113307	gcagcagtactggctggcttcactg	J04103
113308	ttctatcaactgtggttctggcaaa	M34897
113309	tctcatctctcaaaaggtcaaagca	M34897
113310	tcaactaggctgtgggttggaaagg	M34897
113311	cacgtttgctcagatgatccaaagt	M34897
113312	tttgtttagcgtcagaccagaaagg	M34897
113313	tagcgtcagaccagaaagggagatg	M34897
113314	gtatgcttgctcaaggtttatatct	M34897
113315	aattaaacattcctgttcagcagtg	M34897
113316	gaatgacctctgtctgaatgtactt	M34897
113317	cctctgtctgaatgtacttgaactt	M34897
113318	tttaagcccttagagccaagcagat	M34897
113319	cccttagagccaagcagatgtcaaa	M34897
113320	gtgactttctggcaagtagtgggct	M34897
113321	tctggactgctgagtcggacacttg	M34897
113322	ctgctgagtcggacacttggaaaag	M34897
113323	aggagctcacaggctccaacctcct	M34897
113324	tcacaggctccaacctcctattgca	M34897
113325	acctcctattgcaatctcctggtgt	M34897
113326	aatctcctggtgtgcttacagcagc	M34897
113327	tgcttacagcagccagggagagaaa	M34897
113328	ggctgctcactgcttccccagagaa	AA139498
113329	tcactgcttccccagagaacacagc	AA139498
113330	ggtccacacagtggctcagatcatc	AA139498
113331	ccacacagtggctcagatcatcacc	AA139498
113332	agtggctcagatcatcacccactca	AA139498
113333	ggctcagatcatcacccactcaagc	AA139498
113334	tcagatcatcacccactcaagctac	AA139498
113335	ccactcaagctaccgagaagagggc	AA139498
113336	ctcaagctaccgagaagagggctcc	AA139498
113337	tcccaacggccttcactgtactgtc	AA139498
113338	caacggccttcactgtactgtcacg	AA139498
113339	cggccttcactgtactgtcacggga	AA139498
113340	cttccccagagaacacagcagggaa	AA139498
113341	ccccagagaacacagcagggaagcg	AA139498
113342	ccaccagctagactcctacagcaat	AA139498
113343	gctagactcctacagcaatgacact	AA139498
113344	ctcctacagcaatgacactgtggtc	AA139498
113345	caatgacactgtggtccacacagtg	AA139498
113346	cactgtggtccacacagtggctcag	AA139498
113347	tgtggtccacacagtggctcagatc	AA139498
113348	actcgcacgtgccgctgcactacta	M93128
113349	tggacaccttccgtgcgctttcaca	M93128
113350	gttgtcacagcagccagtctgcagc	M93128
113351	gtcacagcagccagtctgcagcggc	M93128
113352	acagcagccagtctgcagcggcggc	M93128
113353	ccgctgcagcggcagcgctgggctc	M93128
113354	gtggctcggactttggctgcagcgc	M93128
113355	actttggctgcagcgccgcggcgcc	M93128
113356	gctccgagagcggcttcttgcccta	M93128
113357	agagcggcttcttgccctattccgc	M93128
113358	cggtgctcagcaagaccgccgtcag	M93128
113359	tcagcccgccggaccagagggacga	M93128
113360	ccttccgtgcgctttcacatcctta	M93128

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28153	cccaagtgaccttatccataagtgc	U25844	70757	acaatgatgcccatatcctggagaa	AA067960	113361	tccgtgcgctttcacatccttattc	M93128
28154	tatccataagtgcaatggcaattat	U25844	70758	tctagatcagagctgcctgactact	AA067960	113362	gtgcgctttcacatccttattcgcg	M93128
28155	tacaacatgaacgatgccctctaca	U25844	70759	tgatgcccatatcctggagaagtta	AA067960	113363	cgctttcacatccttattcgcggcc	M93128
28156	gatgccctctacaagttgggcatga	U25844	70760	atgcccatatcctggagaagttact	AA067960	113364	cacatccttattcgcggccggaact	M93128
28157	gccctctacaagttgggcatgactg	U25844	70761	gcccatatcctggagaagttactca	AA067960	113365	atccttattcgcggccggaactgct	M93128
28158	tttggcggcagggcagacttttctg	U25844	70762	gccctctgcctgatgatgatgacat	AA067960	113366	cctgctcgtgcctcagttgtcacag	M93128
28159	ttttctggaatgtcttccaagcaag	U25844	70763	cctctgcctgatgatgatgacatgg	AA067960	113367	cgtgcctcagttgtcacagcagcca	M93128
28160	ggaatgtcttccaagcaaggcttgt	U25844	70764	tgatgacatggcttctcccaaactt	AA067960	113368	ctacgaacgtgccccaagagacatc	M83985
28161	ggcttgtttctgtctaaggttgtgc	U25844	70765	gacatggcttctcccaaacttaaat	AA067960	113369	acgtgccccaagagacatctgtaac	M83985
28162	gtgcataaggcctttgtggaggtta	U25844	70766	acgcttaccctcaagagcatttgta	U53455	113370	attttgatgcgtacacaaggtcact	M83985
28163	tggttgtcacgtgatggtactgtta	W81848	70767	cttaccctcaagagcatttgtatgt	U53455	113371	atgcgtacacaaggtcactgttgat	M83985
28164	agtatgacaagtctcctggagtctg	W81848	70768	agtgccaggccttgcatccagaccc	U53455	113372	ttgtttagtggcttggcagctcttt	M83985
28165	gtcgcagttacgctttatggcgtgc	W81848	70769	gccaggccttgcatccagaccctga	U53455	113373	agtggcttggcagctctttgtaaaa	M83985
28166	gttacgctttatggcgtgccataga	W81848	70770	aggccttgcatccagaccctgagga	U53455	113374	ttggcagctctttgtaaaagcatat	M83985
28167	ctttatggcgtgccatagactgttg	W81848	70771	ccttgcatccagaccctgaggatga	U53455	113375	ggcatttgcctatttttcaaattat	M83985
28168	tatggcgtgccatagactgttggag	W81848	70772	atgaagactcggacgactatgatgg	U53455	113376	ccagtgcatgtctgccctctgagat	M83985
28169	gaggtactcgacagactacgaccgc	W81848	70773	aagactcggacgactatgatggaga	U53455	113377	catgtctgccctctgagatgcaata	M83985
28170	ctcgacagactacgaccgctgagtt	W81848	70774	actcggacgactatgatggagagga	U53455	113378	gtctgccctctgagatgcaataaac	M83985
28171	acagatggcttgctagtacgttgct	W81848	70775	acatccctacattttatacctatga	U53455	113379	tgccctctgagatgcaataaacacc	M83985
28172	gatggcttgctagtacgttgctcag	W81848	70776	tccctacattttatacctatgaaga	U53455	113380	acgtacatctgttcagttagtattt	M83985
28173	ctagtacgttgctcagtggtgtcta	W81848	70777	cattttatacctatgaagaaggact	U53455	113381	agtagtgtttctccatccttcaatt	M83985
28174	gtacgttgctcagtggtgtctacgt	W81848	70778	accctcaagagcatttgtatgttat	U53455	113382	gtttctccatccttcaattgagctc	M83985
28175	atgacaagtctcctggagtctgata	W81848	70779	tgaatgccaagcttggagaagaatc	U53455	113383	ccatccttcaattgagctcaaagtg	M83985
28176	ctcctggagtctgatacagcaatca	W81848	70780	ctccctctgatgaagatgaggaaga	U53455	113384	gacttctattgtacctttgtgatag	M83985
28177	atcagattcccatcggtatatggta	W81848	70781	ccatttctgaatttcgatttgtgcc	U53455	113385	tattgtacctttgtgataggattga	M83985
28178	agattcccatcggtatatggtagaa	W81848	70782	ttgtgcccagtgataagtcagcatt	U53455	113386	atactgtctgtgccgatggcttggc	M83985
28179	aatgtgtttgtcctgtacgtagtcg	W81848	70783	ataagtcagcattggaggcgatgtt	U53455	113387	tctgtgccgatggcttggctgaaga	M83985
28180	gtgtttgtcctgtacgtagtcgcag	W81848	70784	agtcagcattggaggcgatgttcac	U53455	113388	atactgtaccaaagtttttgatatg	AA138250
28181	ctgtacgtagtcgcagttacgcttt	W81848	70785	cgatgttcacagcaatgtgtgagtg	U53455	113389	ttttgatatgctcacagtagcagct	AA138250
28182	tacgtagtcgcagttacgctttatg	W81848	70786	tttcctgcagggagacaaagaagct	U56649	113390	tatcaaaacactggatcaaattcga	AA138250
28183	atattacaccaatgatggagctgaa	X56045	70787	ttctccactttgtgatcggaagtca	U56649	113391	ggatcaaattcgaactattgaacga	AA138250
28184	ttacaccaatgatggagctgaagcc	X56045	70788	tgctgactctctgaggcggtcaaat	U56649	113392	tcaggaaattcctcacaaaggagca	AA138250
28185	atgccgaaaaggtggccgagaagct	X56045	70789	tacaaaaggctccgtgtgtgatggg	U56649	113393	aattcctcacaaaggagcattttgt	AA138250
28186	aatgaatcactctgtcttttccctt	X56045	70790	gagctatgccccagactactcgctc	U56649	113394	tcctcacaaaggagcattttgtgac	AA138250
28187	tacctccaagttttgacaccattga	X56045	70791	agactactcgctctcagctgtggat	U56649	113395	agcattttgtgacttggtgtggtca	AA138250
28188	caagttttgacaccattgaacatga	X56045	70792	ctcagctgtggatctgaagagtttc	U56649	113396	gtcagatcctgaagatgtggacact	AA138250
28189	ttgacaccattgaacatgacttcag	X56045	70793	catcattcagcagaacaaagagagg	U56649	113397	ttgggcaatcagtcccagaggagca	AA138250
28190	acaccattgaacatgacttcagaaa	X56045	70794	agagttggctgcccaaggtgaactt	U56649	113398	ggcaatcagtcccagaggagcaggt	AA138250
28191	aacatgacttcagaaatccattccc	X56045	70795	aaagcatgctgacacacgtccatag	U56649	113399	aatcagtcccagaggagcaggttgg	AA138250
28192	atgacttcagaaatccattccccag	X56045	70796	cacacgtccataggtgtgaacaaac	U56649	113400	tgatatgctcacagtagcagcttta	AA138250
28193	acttcagaaatccattccccagctc	X56045	70797	tgaaaaacacacaaagaccttgatt	U56649	113401	gctcacagtagcagctttaatagat	AA138250
28194	cattccccagctcatgaaaatgtac	X56045	70798	tttcatagtggagccaacgttttct	U56649	113402	gattttgtgtgttcatggcggttta	AA138250
28195	cgaatgctggcagtgaccgagcctg	X56045	70799	gttttctctcctgacggactcaaca	U56649	113403	tgttcatggcggtttatctcctgat	AA138250
28196	atgctggcagtgaccgagcctgggt	X56045	70800	aattgtcattcctcttatagaggaa	U56649	113404	tcatggcggtttatctcctgatatc	AA138250
28197	acaccgactttgctgacgagtgccc	X56045	70801	agcttcaaagtcacagtcttcaaac	U56649	113405	cggtttatctcctgatatcaaaaca	AA138250
28198	actttgctgacgagtgccccaagcc	X56045	70802	ttcaaactacggggcaagcagctcg	U56649	113406	tttatctcctgatatcaaaacactg	AA138250
28199	ttgctgacgagtgccccaagcctga	X56045	70803	ggcaagcagctcgtccaccatgatt	U56649	113407	atctcctgatatcaaaacactggat	AA138250
28200	ctgacgagtgccccaagcctgagct	X56045	70804	cagctcgtccaccatgattgggttc	U56649	113408	atctgcgggccatgctcctgactga	D16215
28201	tgctcgccatccgcttcctaaatgc	X56045	70805	tgggttccatgttgctgactctctg	U56649	113409	acccacgactggctctgagcatctt	D16215
28202	ccatccgcttcctaaatgctgagaa	X56045	70806	agtttgctttctaccatcagggcta	U59322	113410	tcttgattttcctgtaagtgaaaga	D16215
28203	gagctccgagactttcgaggaaata	U36277	70807	tctaccatcagggctacgcagccgg	U59322	113411	tccaactcctctaatgtaacaactt	D16215
28204	acccctctacatcttgcctgtgagc	U36277	70808	gccaaatgtactgccccaaagagca	U59322	113412	acaactttgtcttcataatcataaa	D16215
28205	gagcacttggtgactttgggtgctg	U36277	70809	actgccccaaagagcagacgcagcc	U59322	113413	ttgtcttcataatcataaaccatat	D16215
28206	ttggtgactttgggtgctgatgtca	U36277	70810	acctctggaagtccactctgcccga	U59322	113414	ttccggttcacctcactggcagctt	D16215
28207	actttgggtgctgatgtcaacgctc	U36277	70811	agaagcgcgtgccttacactaaggt	U59322	113415	ttcacctcactggcagcttggtatt	D16215
28208	caggagccctgcaatggccggacag	U36277	70812	gcgtgccttacactaaggtgcagtt	U59322	113416	gtctcttgcagctccattaggttta	D16215
28209	cagaatcctgacctggtttcgctct	U36277	70813	tgccttacactaaggtgcagttgaa	U59322	113417	taaggtccagcacttttgttcactt	D16215
28210	cctgacctggtttcgctcttgttga	U36277	70814	tcattaccaaggacaaacggaggag	U59322	113418	ccagcacttttgttcacttaaaatg	D16215
28211	ctggtttcgctcttgttgaaatgtg	U36277	70815	ggatatcagccacgacaaacctctc	U59322	113419	actctgagcattctttcgccctaaa	D16215
28212	agtacccggatacagcagcagctgg	U36277	70816	tcatcaataaactcaagaccactag	U59322	113420	ctctgagcatcttctttggcccatg	D16215
28213	cagatgctacccgagagcgaggatg	U36277	70817	tcaagaccactagttaatggattaa	U59322	113421	gcctgactggtccaggaaaatggga	D16215
28214	tatgatgactgtgtgtttggaggcc	U36277	70818	agcccgtgcccggctacctggatat	U59322	113422	tcttgacccagtgggaccgaacagt	D16215
28215	ctacatcttgcctgtgagcagggct	U36277	70819	ccggctacctggatatgccagtagt	U59322	113423	tgaaagtcaccaaaactcgaaccat	D16215
28216	ctgcaggccaccaactacaatggcc	U36277	70820	atatgccagtagttccggggctcgg	U59322	113424	tcaccaaaactcgaaccatacaaga	D16215
28217	gccaccaactacaatggccacacgt	U36277	70821	ggcttcccatggaaagctatcagcc	U59322	113425	tacaagaatccccatcttcctttga	D16215
28218	aactacaatggccacacgtgtctgc	U36277	70822	ttcccatggaaagctatcagccctg	U59322	113426	tgctgaaactctttagttttctggc	D16215
28219	aatggccacacgtgtctgcacctag	U36277	70823	gctatcagccctgggctctgcccaa	U59322	113427	ttctggctttgctcatagctgtctt	D16215
28220	tgtctgcacctagcctctactcacg	U36277	70824	atcagccctgggctctgcccaacgg	U59322	113428	ggccagcttcctgaggagctgtttc	M83118

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28221	ggctacctggccatcgtggagcact	U36277	70825	ctctgcccaacggctggaacggcca	U59322	113429	gtcatggctgcccaagaaaaggaca	M83118
28222	ctggccatcgtggagcacttggtga	U36277	70826	tattctcaggtctgaatcctcatca	U18343	113430	ggctttgtgtgcctagcaagttact	M83118
28223	tcttctccagatcctccagggcctg	W82109	70827	caggtctgaatcctcatcatcttcc	U18343	113431	tagtgccctccaattccatccatta	M83118
28224	ttctccagatcctccagggcctgct	W82109	70828	cagtctgtctgagcatgctaccaag	U18343	113432	cctccaattccatccattattgcct	M83118
28225	cgcccctgtgaagcatactggatca	W82109	70829	gtctgagcatgctaccaagccccca	U18343	113433	tccattattgcctcgaatgagaaaa	M83118
28226	cccctgtgaagcatactggatcacc	W82109	70830	ccacatgatgacccttaggtctacc	U18343	113434	gagaaaacttcatccttaaggctgg	M83118
28227	aagcatactggatcaccaagttgtg	W82109	70831	cctcctctctaaatggacatcctcg	U18343	113435	acttcatccttaaggctggaggaga	M83118
28228	gcatactggatcaccaagttgtgga	W82109	70832	ctctaaatggacatcctcgtttgtc	U18343	113436	aatctttctttatgcatctgtcagt	M83118
28229	actggatcaccaagttgtggagcgt	W82109	70833	atggacatcctcgtttgtcccaagt	U18343	113437	tgcatctgtcagttgctagataatg	M83118
28230	tggatcaccaagttgtggagcgtgc	W82109	70834	atcctcgtttgtcccaagtctccag	U18343	113438	tcattttcctggctgttctaggtat	M83118
28231	cgtgcgcagcttgcagggatctcgt	W82109	70835	gtttgtcccaagtctccagagagac	U18343	113439	tcctggctgttctaggtatagtgcc	M83118
28232	tgcgcagcttgcagggatctcgtag	W82109	70836	cccaagtctccagagagactactga	U18343	113440	ccactgctaaccgctgagcagaacc	M83118
28233	cgcagcttgcagggatctcgtagcc	W82109	70837	ctactgatggctgatgtgggtaaga	U18343	113441	agtgccaataaactcaggaggacag	M83118
28234	ttgcagggatctcgtagccgccctg	W82109	70838	tgaatcctcatcatcttcctgattc	U18343	113442	ctccacctcgttctgcaggaaacca	M83118
28235	ctccagatcctccagggcctgcttg	W82109	70839	cctgcaaaggcctggaactggctgt	U18343	113443	ctcgttctgcaggaaaccatctctc	M83118
28236	atcctccagggcctgcttgcagaga	W82109	70840	tctgacgcatgctggaaggacaaaa	U18343	113444	ccctctggacagggtgtctgataag	M83118
28237	cctccagggcctgcttgcagagatg	W82109	70841	cagagatccgacttcaaaaggcagg	U18343	113445	tgataagtcaccttcttaccaactt	M83118
28238	tccagggcctgcttgcagagatggc	W82109	70842	tccgacttcaaaaggcagggtctga	U18343	113446	tgttttatctttggggacaggtgat	M83118
28239	cagggcctgcttgcagagatggcac	W82109	70843	tggcccaggagtcaggcatttcagg	U18343	113447	atctttggggacaggtgatgaaaca	M83118
28240	cctcgtaacgcccctgtgaagcata	W82109	70844	tccaagcttctacagtctgtctgag	U18343	113448	tgaaacatctgatctagcttctgtt	M83118
28241	gtaacgcccctgtgaagcatactgg	W82109	70845	cttctacagtctgtctgagcatgct	U18343	113449	cggaaccagttgacgccatcaacac	W13561
28242	aacgcccctgtgaagcatactggat	W82109	70846	ccatccactacaagtccatgtctcg	U59758	113450	aaccagttgacgccatcaacacaga	W13561
28243	aagctgaagccaggaaccagagttg	W82115	70847	catccactacaagtccatgtctcgc	U59758	113451	ccatcccggcagatgcaggagaaag	W13561
28244	gatatgaccacactaaccatcatga	W82115	70848	catgtctcgctagctcttgcatggg	U59758	113452	acgcaggtgcctccattcacacagg	W13561
28245	cttacaaatccagaattattccagc	W82115	70849	atgtctcgctagctcttgcatgggg	U59758	113453	caggtgcctccattcacacagggat	W13561
28246	aatccagaattattccagcgtgtag	W82115	70850	ctattctcatctaccacctaatact	U59758	113454	cctccattcacacagggattgggca	W13561
28247	atacctccaaaaggctgtttgctct	W82115	70851	tattctcatctaccacctaatactt	U59758	113455	ccattcacacagggattgggcacac	W13561
28248	cctccaaaaggctgtttgctctatg	W82115	70852	attctcatctaccacctaatacttc	U59758	113456	ttcacacagggattgggcacacagc	W13561
28249	aaaggctgtttgctctatggaccgc	W82115	70853	ttctcatctaccacctaatacttct	U59758	113457	ttgggcacacagctgctgttcttgg	W13561
28250	tgtttgctctatggaccgccagcac	W82115	70854	tctcatctaccacctaatacttctc	U59758	113458	ttcttggcgatggtgcaggtgctgc	W13561
28251	ttgctctatggaccgccagcactgg	W82115	70855	atctaccacctaatacttctcccat	U59758	113459	gccgctgtcatagcatgtgccaccg	W13561
28252	ctctatggaccgccagcactgggaa	W82115	70856	accattatacaacctccctactcat	U59758	113460	gtcatagcatgtgccaccgttgctg	W13561
28253	tatggaccgccagcactgggaaaac	W82115	70857	cattatacaacctccctactcatca	U59758	113461	cagttgacgccatcaacacagatgc	W13561
28254	ggaccgccagcactgggaaaacact	W82115	70858	atccactacaagtccatgtctcgct	U59758	113462	acgccatcaacacagatgcctccgt	W13561
28255	atgaccacactaaccatcatgagat	W82115	70859	tccactacaagtccatgtctcgcta	U59758	113463	ccatcaacacagatgcctccgttat	W13561
28256	ccgccagcactgggaaaacactctt	W82115	70860	ccactacaagtccatgtctcgctag	U59758	113464	tcaacacagatgcctccgttatagc	W13561
28257	accacactaaccatcatgagatatc	W82115	70861	cactacaagtccatgtctcgctagc	U59758	113465	cagatgcctccgttatagcagggca	W13561
28258	acactaaccatcatgagatatctgc	W82115	70862	actacaagtccatgtctcgctagct	U59758	113466	atgcctccgttatagcagggcagag	W13561
28259	gtttataacatgtctcacgaggatc	W82115	70863	ctacaagtccatgtctcgctagctc	U59758	113467	cctccgttatagcagggcagagggt	W13561
28260	atgtctcacgaggatcctggaaatg	W82115	70864	tccatgtctcgctagctcttgcatg	U59758	113468	ttatagcagggcagagggttgcagt	W13561
28261	tcttattctgagattggaggcctgt	W82115	70865	ccatgtctcgctagctcttgcatgg	U59758	113469	aaactgacaatcacacaggatggaa	M65034
28262	atagaattgcctcttacaaatccag	W82115	70866	tctttctgaaatgccaagtagcaag	U43084	113470	gaatcaagcaacttcagaaacattg	M65034
28263	ttgcctcttacaaatccagaattat	W82115	70867	tctttctgatcctgtctagcaggca	U43084	113471	gaataagtcaacttctcagagcctg	M65034
28264	aatatggccgagctggcccagcagg	U36393	70868	tcacacaacctttttccttatgtct	U43084	113472	gtcaacttctcagagcctggagcaa	M65034
28265	gagttgcccagtgaggatggcccag	U36393	70869	tttccttatgtctgtgcctttggaa	U43084	113473	ttctcagagcctggagcaacgctga	M65034
28266	ttcagccatggcctgagctttgggg	U36393	70870	acagatatcttccacctttttgctaa	U43084	113474	ctttctccatcatgctaatgccagg	M65034
28267	cccgataccctggggacagagcacg	U36393	70871	atcttccacctttttgctaatgtcct	U43084	113475	ccatcatgctaatgccaggctcatt	M65034
28268	gataccctggggacagagcacggct	U36393	70872	caccttttgctaatgtcctggacaa	U43084	113476	tgctaatgccaggctcattcgtcat	M65034
28269	aacctgtccaagaaggatctggact	U36393	70873	tttaatgtcaccagaaatgcttatt	U43084	113477	tgccaggctcattcgtcatcctatc	M65034
28270	ttaatgctcctagatgactccctgc	U36393	70874	gcttattaccatacaatttcagagc	U43084	113478	tcgtcatcctatcagcactggtctc	M65034
28271	atgctcctagatgactccctgctcc	U36393	70875	taccatacaatttcagagcaaaaca	U43084	113479	tcctatcagcactggtctccagcct	M65034
28272	tctaccatgtctcctgaggcctcca	U36393	70876	aagaggtcacacattactggaaaga	U43084	113480	ttatggtccttaagctatacatgaa	M65034
28273	atgtctcctgaggcctccaaggcca	U36393	70877	tacataaataacttctttcaatatt	U43084	113481	agcaacttcagaaacattgatgttg	M65034
28274	ctcccatccttcaggctgcacttgg	U36393	70878	aattccatcccaaggatacatactc	U43084	113482	agtctagcagacggaacggagctca	M65034
28275	ttcaggctgcacttggtggtgaagt	U36393	70879	atcccaaggatacatactcacttaa	U43084	113483	gagctcactggggcctggaccattg	M65034
28276	atgctggggcctgaggtccctgagc	U36393	70880	aggatacatactcacttaaagatca	U43084	113484	gagctgattgctgtccgagaggttt	M65034
28277	cctgaggtccctgagcctgagcaaa	U36393	70881	catactcacttaaagatcacaactg	U43084	113485	attgctgtccgagaggtttctggta	M65034
28278	cctgagcaaatgccggctcttcctc	U36393	70882	cacttaaagatcacaactgattcct	U43084	113486	aatgaactaatccagacctacacat	M65034
28279	tctccgttccatcacctggacttca	U36393	70883	aagatcacaactgattcctgctgtt	U43084	113487	ctaatccagacctacacatatgaag	M65034
28280	ttccatcacctggacttcagccatg	U36393	70884	acaactgattcctgctgttctggac	U43084	113488	cagacctacacatatgaaggagttg	M65034
28281	catcacctggacttcagccatggcc	U36393	70885	ctcctgtgagctgtagaatcacaca	U43084	113489	ggctgtaccgtacagatgagcacct	L08266
28282	ctggacttcagccatggcctgagct	U36393	70886	aatcgtatgcagagtctgtgggagc	AA068057	113490	accggtgactgtcgctcagtgaggc	L08266
28283	gacttcagccatggcctgagctttg	U36393	70887	tcgtatgcagagtctgtgggagcca	AA068057	113491	tgccccatgtgaaatcagcttcaat	L08266
28284	tatctccaacagcctctctctttca	U39456	70888	tgatagagacagcccaggtggatga	AA068057	113492	cttcaattctcacagtaggacattt	L08266
28285	gaccgttgtgtgtgttctggaaacg	U39456	70889	atagagacagcccaggtggatgaga	AA068057	113493	ttctcacagtaggacatttgatgac	L08266
28286	gaatcagcctagcaggcccagcaac	U39456	70890	agacagcccaggtggatgagagagc	AA068057	113494	gtcatgaaggcctgggttttctctt	L08266
28287	caggcccagcaacacagcctctaag	U39456	70891	acagcccaggtggatgagagagcaa	AA068057	113495	aaggcctgggttttctcttgcatct	L08266
28288	cagcaacacagcctctaagttagag	U39456	70892	ctgcaaggcgaggtgtgcagatcat	AA068057	113496	tgggttttctcttgcatctgcacat	L08266

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28289	cacagcctctaagttagagcgggat	U39456	70893	gtgcagatcatcgacgacgagcctc	AA068057	113497	ttctcttgcatctgcacatccaggc	L08266
28290	acttgaaccccaaattgcttcagca	U39456	70894	gcagatcatcgacgacgagcctcaa	AA068057	113498	tgcatctgcacatccaggctttgcc	L08266
28291	aaattgctttgcctgaaataagaag	U39456	70895	agatcatcgacgacgagcctcaagc	AA068057	113499	tgcacatccaggctttgccgggcaa	L08266
28292	ttcaaaaatgttctcagctgattgg	U39456	70896	gacgacgagcctcaagctcagagca	AA068057	113500	cgggcaaacactgactggcagtgga	L08266
28293	aatgttctcagctgattggaattct	U39456	70897	gctgttcctccggctaactgctcag	AA068057	113501	gactgtcgctcagtgaggcctttgt	L08266
28294	gaacaaaatacacaacagtgtccat	U39456	70898	gtatgcagagtctgtgggagccaag	AA068057	113502	cgctcagtgaggcctttgttcctca	L08266
28295	aatacacaacagtgtccatatttta	U39456	70899	ttcctccggctaactgctcagcctg	AA068057	113503	gtgaggcctttgttcctcagtgcag	L08266
28296	acctctcaatttcactcaagagttt	U39456	70900	ggagccaagcattaccatacttccg	AA068057	113504	ttcctcagtgcagaaatgctgcaag	L08266
28297	cactcaagagtttccatctcctcaa	U39456	70901	agccaagcattaccatacttccgct	AA068057	113505	ctgcaaggcaccactatagtggaag	L08266
28298	tccatctcctcaaacgtattggaag	U39456	70902	ccaagcattaccatacttccgctaa	AA068057	113506	catctgcttccctatgtctagtaaa	L08266
28299	tcctcaaacgtattggaaggagatt	U39456	70903	gcattaccatacttccgctaaacag	AA068057	113507	atggctgttgttttctagtgagaat	L08266
28300	tacagcttcagttactgtggccctc	U39456	70904	taccatacttccgctaaacagaaca	AA068057	113508	ctgcacatctgctatgagaaccctt	L08266
28301	tgtgatgctgctcatcattgtatgt	U39456	70905	ttccgctaaacagaacaaaggcatt	AA068057	113509	gcagcgtcgcccatactccgagcaa	AA002852
28302	gctgctcatcattgtatgtcacaag	U39456	70906	tctcgacctttgtaaaagaatgata	AA068057	113510	cgtcgcccatactccgagcaaagaa	AA002852
28303	gaagccgaatcagcctagcaggccc	U39456	70907	tctaccagctacattgggagtatgc	AA068062	113511	catactccaaggaagcatcatcagc	AA002852
28304	attcgtttcttgcagtttgacccag	W82496	70908	accagctacattgggagtatgccaa	AA068062	113512	tactccaaggaagcatcatcagcat	AA002852
28305	ttttaaacttgaccattattgccat	W82496	70909	ttgccatggaggaccggcagtacat	AA068062	113513	ggaagcatcatcagcatcaccacca	AA002852
28306	ttattgccatgaaccgtatatggac	W82496	70910	ggcagtacatgttcatcgtgcacac	AA068062	113514	aagcatcatcagcatcaccaccagc	AA002852
28307	aaagctcctggtaatcacaagccgt	W82496	70911	tcgtgcacaccatcgaggagatcga	AA068062	113515	gcatcatcagcatcaccaccagcag	AA002852
28308	agctcctggtaatcacaagccgtga	W82496	70912	tgcacaccatcgaggagatcgaggg	AA068062	113516	cccaccaatacctgcaaatggccag	AA002852
28309	tcctggtaatcacaagccgtgacaa	W82496	70913	gcacaccatcgaggagatcgagggc	AA068062	113517	ccaatacctgcaaatggccagcagg	AA002852
28310	cctggtaatcacaagccgtgacaac	W82496	70914	agatcgagggcctgatctcagccca	AA068062	113518	tacctgcaaatggccagcaggccag	AA002852
28311	tggtaatcacaagccgtgacaactt	W82496	70915	agggcctgatctcagcccatgacca	AA068062	113519	gccagcaggccagcagccagaatga	AA002852
28312	ggtaatcacaagccgtgacaactta	W82496	70916	gggcctgatctcagcccatgaccag	AA068062	113520	cagcaggccagcagccagaatgaag	AA002852
28313	taatcacaagccgtgacaacttagg	W82496	70917	gcctgatctcagcccatgaccaggt	AA068062	113521	gcccatactccgagcaaagaactgt	AA002852
28314	aatcacaagccgtgacaacttaggg	W82496	70918	cctgatctcagcccatgaccaggtc	AA068062	113522	aggccagcagccagaatgaaggctt	AA002852
28315	tcacaagccgtgacaacttagggat	W82496	70919	ccagctacattgggagtatgccaag	AA068062	113523	ccatactccgagcaaagaactgtgg	AA002852
28316	ttaaacttgaccattattgccatga	W82496	70920	tgaggccatcctggccgatccacaa	AA068062	113524	atactccgagcaaagaactgtggcc	AA002852
28317	cacaagccgtgacaacttagggatt	W82496	70921	agtatgccaagcgggctgcaccctg	AA068062	113525	actccgagcaaagaactgtggccag	AA002852
28318	taaacttgaccattattgccatgaa	W82496	70922	gtatgccaagcgggctgcaccctgc	AA068062	113526	caaagaactgtggccagaggaggtc	AA002852
28319	aacttgaccattattgccatgaacc	W82496	70923	tgccaagcgggctgcaccctgcaac	AA068062	113527	agacactttgctgtgttcaaatcca	AA002852
28320	ttgaccattattgccatgaaccgta	W82496	70924	accctgcaacaactggatggagatt	AA068062	113528	cagaatcatactccaaggaagcatc	AA002852
28321	tgaccattattgccatgaaccgtat	W82496	70925	cctgcaacaactggatggagattgc	AA068062	113529	atcatactccaaggaagcatcatca	AA002852
28322	accattattgccatgaaccgtatat	W82496	70926	agattgccatggaggaccggcagta	AA068062	113530	gccctacacatttgatatcaacctg	M84145
28323	ccattattgccatgaaccgtatatg	W82496	70927	gattgccatggaggaccggcagtac	AA068062	113531	cacatttgatatcaacctgtctgtc	M84145
28324	attattgccatgaaccgtatatgga	W82496	70928	ttttattccatgtgaaatgtgtcac	U43085	113532	aagctttggctccatgctggaactg	M84145
28325	ttctccggcctggactgtgataccg	M69293	70929	tgataattgccatttcctaggtaga	U43085	113533	tggctccatgctggaactgtcctgg	M84145
28326	gagagactttcagtgccctttctac	M69293	70930	aacagctgtatcagtgcttcataat	U43085	113534	gaccttcctgctggacggcgatgaa	M84145
28327	atggccttttgacacgagcctact	M69293	70931	agctgtatcagtgcttcataatatt	U43085	113535	cctgctggacggcgatgaagtcatc	M84145
28328	gccttttgacacgagcctactgaa	M69293	70932	aatattctctatgcattaagtccat	U43085	113536	agtcatcataacaggtcactgccag	M84145
28329	acacgagcctactgaatgctgtgta	M69293	70933	tatgcattaagtccatcgatattca	U43085	113537	cataacaggtcactgccaggggac	M84145
28330	atattgagtgaaccttgtggactct	M69293	70934	ttaagtccatcgatattcaccattt	U43085	113538	accagcctgaagctccggaagtcac	M84145
28331	cctatttctgcattaaaatgtaatg	M69293	70935	ccatcgatattcaccatttgaattt	U43085	113539	acacccttgccttatgaggatcatg	M84145
28332	tgattgcttgctttatttcagacaa	M69293	70936	tcgatattcaccatttgaatttctg	U43085	113540	gatcatgctaccactgcatcagtca	M84145
28333	ttgcttgctttatttcagacaacca	M69293	70937	atattcaccatttgaatttctggaa	U43085	113541	actgcatcagtcaggaatgaataaa	M84145
28334	gctttatttcagacaaccagtgctt	M69293	70938	taacattaagctatgctctggttcc	U43085	113542	aatgagccaggcggctaccatctgc	M84145
28335	ttatttcagacaaccagtgctttga	M69293	70939	atttttagactcaagtactgataat	U43085	113543	catctgcaggtctaactttaagcac	M84145
28336	tttcagacaaccagtgctttgattt	M69293	70940	ttgccatttcctaggtagatctgga	U43085	113544	taagcacatgtactggaccatgctg	M84145
28337	agactttcagtgccctttctacagt	M69293	70941	agtcaagtggcccagtatgagacgg	U43085	113545	catgtactggaccatgctgcagcaa	M84145
28338	tcagtgccctttctacagttggaag	M69293	70942	acggtcagccacactctgggataaa	U43085	113546	ctggaccatgctgcagcaactcaca	M84145
28339	tttctttatatactattcccaccat	M69293	70943	aatgtttctctactgggttcagctt	U43085	113547	gcagcaactcacacaccactctgtt	M84145
28340	cagactttgccttttcacaaaggtg	M69293	70944	ctgggttcagcttgtctctatgtat	U43085	113548	acaccactctgttaatggatgcaac	M84145
28341	tttcacaaaggtggagcgtgaattc	M69293	70945	tcagcttgtctctatgtatatatga	U43085	113549	ttctggaaccatcagtggatcagac	M84145
28342	tgaattccagaaggacccagtattc	M69293	70946	aattaaaacatccatgattcataga	U43085	113550	aggcttctctgttgttctccgcagg	AA036414
28343	aaatgaagtcttcggtcagaaatgg	M69293	70947	cattctaacagctgtatcagtgctt	U43085	113551	gacacgccgaatgtgaccgcaacca	AA036414
28344	tgaagtcttcggtcagaaatggcct	M69293	70948	ggtgatctcctagatcagatcttca	U46687	113552	gctccctcaggtataagtattgttt	AA036414
28345	ggtccttccagaactgtaataacat	W82632	70949	gatcagatcttcattcaccgtgaca	U46687	113553	ttgtttaaactgcatcaatggagca	AA036414
28346	gtaataacatgctgtaccccaagca	W82632	70950	catcctccatggttccactgtactt	U46687	113554	tttaaactgcatcaatggagcacat	AA036414
28347	gccaacacgaatccgacaacagctg	W82632	70951	ttccactgtacttctgcctaccttg	U46687	113555	taaactgcatcaatggagcacatac	AA036414
28348	aacacgaatccgacaacagctgcat	W82632	70952	taccttgtgcggaaggagcatacat	U46687	113556	gagcacatacagggagcctgctttg	AA036414
28349	aatccgacaacagctgcatatatgt	W82632	70953	ctcagttccttgcttccaggatgaa	U46687	113557	agcacatacagggagcctgctttgg	AA036414
28350	ccgacaacagctgcatatatgtcaa	W82632	70954	tccttgcttccaggatgaatgagtc	U46687	113558	cacatacagggagcctgctttggta	AA036414
28351	acaacagctgcatatatgtcaacac	W82632	70955	ttttctaatgagtgcagatgaccta	U46687	113559	acatacagggagcctgctttggtac	AA036414
28352	tatatgtcaacacgatcactcacaa	W82632	70956	accaagtctaggtatcagcgtatgc	U46687	113560	tacagggagcctgctttggtactac	AA036414
28353	atgtcaacacgatcactcacaaatg	W82632	70957	tatcagcgtatgcagactttctgag	U46687	113561	ggagcctgctttggtactacagaac	AA036414
28354	tcaacacgatcactcacaaatgtac	W82632	70958	cgtatgcagactttctgaggcttct	U46687	113562	acacgccgaatgtgaccgcaaccaa	AA036414
28355	cgagatcgaccacatcatcgcagac	W82632	70959	ttctgaggcttctgagggcccaagc	U46687	113563	gagcctgctttggtactacagaact	AA036414
28356	gatcgaccacatcatcgcagacatg	W82632	70960	atcttcattcaccgtgacaccatcc	U46687	113564	ccgaatgtgaccgcaaccaacgcgt	AA036414

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28357	acatgctgtaccccaagcactacaa	W82632	70961	gagaagctcttctaggctgaacaga	U46687	113565	aatgtgaccgcaaccaacgcgttct	AA036414
28358	tcgaccacatcatcgcagacatgtc	W82632	70962	aagctgatgatccccagctgtattt	U46687	113566	atgtgaccgcaaccaacgcgttctc	AA036414
28359	tgctgtaccccaagcactacaaata	W82632	70963	tgtatttggctgtccagttgaccca	U46687	113567	gtgaccgcaaccaacgcgttctctc	AA036414
28360	atcacattctgccgtacgcttgccg	W82632	70964	tggctgtccagttgacccaaattgt	U46687	113568	tgaccgcaaccaacgcgttctctca	AA036414
28361	acattctgccgtacgcttgccggaa	W82632	70965	tccagttgacccaaattgttggctc	U46687	113569	gcccggctccctcaggtataagtat	AA036414
28362	cttgccggaattcctattgccaaca	W82632	70966	tgacccaaattgttggctcctcgtc	U46687	113570	cggctccctcaggtataagtattgt	AA036414
28363	gccggaattcctattgccaacacga	W82632	70967	cacttacatcctccatggttccact	U46687	113571	tcacacgctctctggatttcccact	W13632
28364	cctattgccaacacgaatccgacaa	W82632	70968	gagcctctttcctctggtgcctcat	U47104	113572	cacacgctctctggatttcccactg	W13632
28365	attgccaacacgaatccgacaacag	W82632	70969	ctttcctctggtgcctcatagaaga	U47104	113573	tcacttccaaggatacgatgagagg	W13632
28366	ccaacacttccagagctcaagatct	W82634	70970	gcacttagatggccccagaaatgag	U47104	113574	cacttccaaggatacgatgagaggt	W13632
28367	aacacttccagagctcaagatctgc	W82634	70971	agatggccccagaaatgagtctggc	U47104	113575	acttccaaggatacgatgagaggtt	W13632
28368	gtactccgaggccatcctcgagggc	W82634	70972	gtctggccagacaattacctttcag	U47104	113576	tctctcagctgtctggagtccatga	W13632
28369	tactccgaggccatcctcgagggct	W82634	70973	ccagacaattacctttcagacagat	U47104	113577	ctctcagctgtctggagtccatgaa	W13632
28370	tcgagggctcctagttcggagtctc	W82634	70974	ctttcagacagatgacatttgttag	U47104	113578	tctcagctgtctggagtccatgaat	W13632
28371	gagggctcctagttcggagtctcca	W82634	70975	ttcctcaggcagagggtgtagctca	U47104	113579	ctcagctgtctggagtccatgaatt	W13632
28372	gctcctagttcggagtctccatgca	W82634	70976	tgcccaagctcagacaggagaaagt	U47104	113580	tcagctgtctggagtccatgaattc	W13632
28373	ctcctagttcggagtctccatgcag	W82634	70977	tagcctttccagcccatgactggtg	U47104	113581	cagctgtctggagtccatgaattct	W13632
28374	tcctagttcggagtctccatgcagc	W82634	70978	ttccagcccatgactggtgagtatg	U47104	113582	agctgtctggagtccatgaattctg	W13632
28375	ctagttcggagtctccatgcagcta	W82634	70979	gatatcactcacacacacacataca	U47104	113583	acacgctctctggatttcccactga	W13632
28376	tagttcggagtctccatgcagctac	W82634	70980	aagacatggcctctttgtgccactc	U47104	113584	cacgctctctggatttcccactgac	W13632
28377	agttcggagtctccatgcagctacg	W82634	70981	ctttgtgccactcctatccactgtc	U47104	113585	acgctctctggatttcccactgacc	W13632
28378	acacttccagagctcaagatctgcc	W82634	70982	cctatccactgtctcaatacctaca	U47104	113586	ggatttcccactgacccagttcttg	W13632
28379	cacttccagagctcaagatctgccg	W82634	70983	cactgtctcaatacctacagtttct	U47104	113587	gatttcccactgacccagttcttgc	W13632
28380	gatgtgcatcggcaagtgtgcatgt	W82634	70984	acctacagtttctctgctaatccct	U47104	113588	atttcccactgacccagttcttgcg	W13632
28381	atgtgcatcggcaagtgtgcatgtg	W82634	70985	agtttctctgctaatcccttcatg	U47104	113589	catctacgttcacttccaaggatac	W13632
28382	atgtgtgatccggacgtcctccggt	W82634	70986	tctgctaatcccttcatggaaccc	U47104	113590	atctacgttcacttccaaggatacg	W13632
28383	tccggtactccgaggccatcctcga	W82634	70987	ggaacccattgtgtgctgataacag	U47104	113591	tccttcctgccagaattcctatcca	M95408
28384	ccggtactccgaggccatcctcgag	W82634	70988	agtttacgggaggcattgtgtggct	AA068051	113592	ctgccagaattcctatccagactgt	M95408
28385	ggtactccgaggccatcctcgaggg	W82634	70989	tgtggctgctcacttaatgtgccaa	AA068051	113593	cactcccaactgcatcaagaaattc	M95408
28386	atggagctatctggtggacgcaggc	U36760	70990	tccttcccagacgtcatatctgcag	AA068051	113594	aaagccatgttgactcttacagcca	M95408
28387	gagctatctggtggacgcaggcctt	U36760	70991	ccagacgtcatatctgcagcatcca	AA068051	113595	atgttgactcttacagccactggag	M95408
28388	gtatatttcgatgtatgtggtcact	U36760	70992	gacgtcatatctgcagcatccaaag	AA068051	113596	gctaactgaccttcattgcgtctgt	M95408
28389	tatgtaacctgtgttgcgcaaatgc	U36760	70993	gtcatatctgcagcatccaaagaga	AA068051	113597	tgaccttcattgcgtctgtcttccc	M95408
28390	gtaacctgtgttgcgcaaatgccgc	U36760	70994	atatctgcagcatccaaagagatcc	AA068051	113598	ggaccccgcaggacaaacagggatg	M95408
28391	acctgtgttgcgcaaatgccgcatc	U36760	70995	tctgcagcatccaaagagatcctga	AA068051	113599	ttctttagatgtccagttggtatac	M95408
28392	gcgcaaatgccgcatcaatttgagt	U36760	70996	gcatccaaagagatcctgaggaagc	AA068051	113600	ggtataccatgcattctgttaggtg	M95408
28393	caaatgccgcatcaatttgagtgat	U36760	70997	ctccctgcctcctaggatgagaaga	AA068051	113601	ccatgcattctgttaggtgattttg	M95408
28394	atgccgcatcaatttgagtgattgt	U36760	70998	cctgcctcctaggatgagaagaacc	AA068051	113602	tgtacagttcctctgacctattaaa	M95408
28395	atactgtggtcatatgcccgtgttt	U36760	70999	aaccttgctatccatagtttgataa	AA068051	113603	gaattcctatccagactgtgttgca	M95408
28396	tcatatgcccgtgtttgtcacttac	U36760	71000	ggctgctcacttaatgtgccaacaa	AA068051	113604	tccgccttctctcctgtggatactg	M95408
28397	tgtttactatgaacacacagaaata	U36760	71001	cttgctatccatagtttgataagac	AA068051	113605	ttctctcctgtggatactgaagcat	M95408
28398	ctatctggtggacgcaggccttgag	U36760	71002	tgctcacttaatgtgccaacaatgg	AA068051	113606	ctgacaaaaacttgcctttcctcat	M95408
28399	tctggtggacgcaggccttgagaac	U36760	71003	aacctacctatgtcagtcactgata	AA068051	113607	tgcctttcctcatcagaattctgtg	M95408
28400	ttctagcaaatgcacttggtatact	U36760	71004	ctacctatgtcagtcactgatattg	AA068051	113608	tcagaattctgtgccagttttgtac	M95408
28401	ttagttggcaacactgcccattcaa	U36760	71005	atgtcagtcactgatattgtgaaac	AA068051	113609	ttctgtgccagttttgtaccagagc	M95408
28402	ggcaacactgcccattcaattgaat	U36760	71006	attgtgaaacctgggatgaggagaa	AA068051	113610	tttgtaccagagcactcccaactgc	M95408
28403	aacactgcccattcaattgaatccg	U36760	71007	gatgtgtccttcccagacgtcatat	AA068051	113611	aggctctcgcaagcacgggtgacca	AA144240
28404	gcccattcaattgaatccgaaagga	U36760	71008	gtgtccttcccagacgtcatatctg	AA068051	113612	ggctctcgcaagcacgggtgaccag	AA144240
28405	ttaaggattgccttcagtttgtgtt	U36760	71009	tggatcccctcaagttgcctggggt	U43691	113613	gtgaccagcctctcctgagcacgct	AA144240
28406	taaggtcattgctactgtcagcaca	W82747	71010	gggtcttccagttcaccaagagatt	U43691	113614	ttgccgtcggagtcaccgcagttcc	AA144240
28407	tgctactgtcagcacaacagtcagt	W82747	71011	tctgctatctactgcccacaagtag	U43691	113615	tgccgtcggagtcaccgcagttcct	AA144240
28408	aactgtccggatcatcatcactatc	W82747	71012	gctatctactgcccacaagtagctg	U43691	113616	cgtcggagtcaccgcagttcctgcc	AA144240
28409	gatcatcatcactatccaccacagg	W82747	71013	tgcccacaagtagctggcaactatt	U43691	113617	gcagttcctgccgccagcctgagtg	AA144240
28410	cactatccaccacagggacgaggaa	W82747	71014	ttattaagcacctacgatgtgccgg	U43691	113618	tgccgccagcctgagtgcggtccca	AA144240
28411	tatccaccacagggacgaggaagtg	W82747	71015	acctacgatgtgccgggtgttgtgt	U43691	113619	cagcctgagtgcggtcccacacgct	AA144240
28412	agtggttctcctgaaccagcgtgga	W82747	71016	tacgatgtgccgggtgttgtgtaga	U43691	113620	cacacgctgccagccagtctttgcg	AA144240
28413	ggttctcctgaaccagcgtggacaa	W82747	71017	aagtaaccagtggcccatccagctg	U43691	113621	acacgctgccagccagtctttgcgg	AA144240
28414	tctcctgaaccagcgtggacaatgg	W82747	71018	ccagtggcccatccagctgatgact	U43691	113622	acgctgccagccagtctttgcggcc	AA144240
28415	cctgaaccagcgtggacaatggtga	W82747	71019	gcccatccagctgatgactccttgc	U43691	113623	gctctcgcaagcacgggtgaccagc	AA144240
28416	gaaccagcgtggacaatggtgagat	W82747	71020	catccagctgatgactccttgccct	U43691	113624	ctctcgcaagcacgggtgaccagcc	AA144240
28417	gtaagcctcttgtcagcaagagagt	W82747	71021	tccagttcaccaagagattccctta	U43691	113625	tctcgcaagcacgggtgaccagcct	AA144240
28418	cacaacagtcagtggggacgagaag	W82747	71022	tccccacaaggacactggtgcaggg	U43691	113626	ctcgcaagcacgggtgaccagcctc	AA144240
28419	agcctcttgtcagcaagagagtatc	W82747	71023	tcaccaagagattcccttaaactcg	U43691	113627	tcgcaagcacgggtgaccagcctct	AA144240
28420	ctaatatcgttctagcaacttgctg	W82747	71024	cccccatagagtatgcacagcaatg	U43691	113628	cgcaagcacgggtgaccagcctctc	AA144240
28421	atatcgttctagcaacttgctgagg	W82747	71025	gtttaggatgtccggttgagataga	U43691	113629	caagcacgggtgaccagcctctcct	AA144240
28422	ttctagcaacttgctgaggcacggc	W82747	71026	ctaaactctggaaccaagaactgtg	U43691	113630	gggtgaccagcctctcctgagcacg	AA144240
28423	tagcaacttgctgaggcacggcatg	W82747	71027	ttcccaaaaggagcctctgctatct	U43691	113631	agctccctgaagaacaaactgaggc	W15789
28424	caacttgctgaggcacggcatgaag	W82747	71028	ccaaaaggagcctctgctatctact	U43691	113632	ctccctgaagaacaaactgaggcgt	W15789

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28425	catgaagctcttcgtggagcacgtg	W82747	71029	aaaggagcctctgctatctactgcc	U43691	113633	gcactggcgactgctcagacgagga	W15789
28426	gaagctcttcgtggagcacgtgtgg	W82747	71030	catactcagcagcccttcttggtcc	U60335	113634	actggcgactgctcagacgaggagg	W15789
28427	ttacccgtggatgaccaaactgcac	U28071	71031	cagcagcccttcttggtcctgtctg	U60335	113635	ctgctcagacgaggaggtcgacggt	W15789
28428	gatgaccaaactgcacatgagccac	U28071	71032	aggcacaggctgcttctagaacctt	U60335	113636	aataggagcttctcctgcagcccag	W15789
28429	gggcctcccagacaaaagcgcattt	U28071	71033	cacaggctgcttctagaaccttcct	U60335	113637	tctcctgcagcccaggcggatggac	W15789
28430	cccagacaaaagcgcatttctttgg	U28071	71034	aggctgcttctagaaccttcctggt	U60335	113638	ctgcagcccaggcggatggacaaac	W15789
28431	cgcatttctttggcattccgaatcc	U28071	71035	tggtcacccttacgcaggccaccag	U60335	113639	gcagcccaggcggatggacaaacgg	W15789
28432	tctttggcattccgaatccccatcg	U28071	71036	cccttacgcaggccaccaggctgtg	U60335	113640	agcccaggcggatggacaaacggct	W15789
28433	tgcactgcctgtcttgctccagctc	U28071	71037	ttacgcaggccaccaggctgtgtgt	U60335	113641	cctgccttgagactgctctgaccat	W15789
28434	gcctgtcttgctccagctcagctga	U28071	71038	tccacataattttggcttttgtgga	U60335	113642	ccttgagactgctctgaccatgtcc	W15789
28435	tgtcttgctccagctcagctgagac	U28071	71039	ttccttctgggtaaatgtgagctgg	U60335	113643	cgtgaggacctgccatttgtcgtga	W15789
28436	gctcagctgagaccccaggcccggg	U28071	71040	aaatgtgagctgggctgttttgtta	U60335	113644	aggacctgccatttgtcgtgactcg	W15789
28437	cagctgagaccccaggcccggggca	U28071	71041	tgcacacaaactcaggtaaaagtga	U60335	113645	gacctgccatttgtcgtgactcgcc	W15789
28438	caggcccggggcacattcttgtagc	U28071	71042	cagttgccccattaggccttcgcat	U60335	113646	atttgtcgtgactcgccgaattgtt	W15789
28439	gaccaaactgcacatgagccacgag	U28071	71043	ttgccccattaggccttcgcatggg	U60335	113647	ttgtcgtgactcgccgaattgttcg	W15789
28440	gcacatgagccacgagacggatggc	U28071	71044	gttggcacccatgcagactggagtg	U60335	113648	gtcgtgactcgccgaattgttcgga	W15789
28441	catgagccacgagacggatggcaag	U28071	71045	gttactgtccacctggtacctcagg	U60335	113649	tcgccgaattgttcggaaaggcact	W15789
28442	cactcgccgcaggcgcatagagatt	U28071	71046	actgtccacctggtacctcagggct	U60335	113650	aggcactggcgactgctcagacgag	W15789
28443	agagattgccaacaacttgtgtctc	U28071	71047	gtccacctggtacctcagggcttgg	U60335	113651	ccgaatgtcgcagaaccttagataa	M83649
28444	cctcagagagcaccccggtctgctg	U28071	71048	cacctggtacctcagggcttggcgt	U60335	113652	aatttcaggacatggtccagaagga	M83649
28445	cctccttctagattttgaggcggag	U28071	71049	aggtgagacacccaaactcagggca	U60335	113653	cttctgttattctctgcagttgctg	M83649
28446	ggctagagcactggctccgggcctc	U28071	71050	atggcatgcttctcaatgaccgtaa	AA068153	113654	ctgttattctctgcagttgctgaga	M83649
28447	tcatcggcagcctcaatgtgcagac	W82980	71051	tctcaatgaccgtaaagtgttcgtg	AA068153	113655	gagatgaaccattttctctgtctac	M83649
28448	tcggcagcctcaatgtgcagacgag	W82980	71052	gtctcgcaaagagcgggaagcggac	AA068153	113656	aaccattttctctgtctactgcaat	M83649
28449	tacgctgcttcggcttcgtgatgta	W82980	71053	gacttcggagccaaggccaaggaat	AA068153	113657	ctctgtctactgcaatttttacatt	M83649
28450	tcggcttcgtgatgtactcgagctt	W82980	71054	ttcggagccaaggccaaggaattca	AA068153	113658	cattcaaatgtccatgaaatttgta	M83649
28451	tcgtgatgtactcgagcttggagtg	W82980	71055	gaaagagctcttcagccagtttggt	AA068153	113659	gaatctgcagtgtttgtgtttatat	M83649
28452	actcgagcttggagtggtcgcgata	W82980	71056	aagagctcttcagccagtttggtaa	AA068153	113660	tgaaacaaatactcgcagttaattg	M83649
28453	agtggtcgcgataccctatggctgc	W82980	71057	agagctcttcagccagtttggtaag	AA068153	113661	atggacagttctttttcctctctata	M83649
28454	ggtcgcgataccctatggctgcttc	W82980	71058	agctcttcagccagtttggtaagac	AA068153	113662	tcttttcctctctatatggaaatgt	M83649
28455	gataccctatggctgcttcgtcgta	W82980	71059	gctcttcagccagtttggtaagacc	AA068153	113663	ttcaggacatggtccagaaggacct	M83649
28456	ctatggctgcttcgtcgtacgcgta	W82980	71060	tcttcagccagtttggtaagaccct	AA068153	113664	tacctcagttccagccatgaagaga	M83649
28457	ctgcttcgtcgtacgcgtatgacgg	W82980	71061	gtaagaccctaagtgtcaaggtgat	AA068153	113665	gacattggcaactcctggtgtgttc	M83649
28458	cttcgtcgtacgcgtatgacggcga	W82980	71062	gtagattcaagtctcgcaaagagcg	AA068153	113666	tgtgttctctttgccagcaaatggt	M83649
28459	gcagcctcaatgtgcagacgagtga	W82980	71063	tagattcaagtctcgcaaagagcgg	AA068153	113667	gttctctttgccagcaaatggtagt	M83649
28460	tcaatgtgcagacgagtgagtcggg	W82980	71064	agattcaagtctcgcaaagagcggg	AA068153	113668	ctctttgccagcaaatggtagttga	M83649
28461	acttcgatgccttctgtactctagc	W82980	71065	attcaagtctcgcaaagagcgggaa	AA068153	113669	ttccagggactgcttctgttattct	M83649
28462	tctgtactctagcggactgcgtggt	W82980	71066	ttcaagtctcgcaaagagcgggaag	AA068153	113670	ggactgcttctgttattctctgcag	M83649
28463	tgaaccccagacgaagcgctctacg	W82980	71067	tcaagtctcgcaaagagcgggaagc	AA068153	113671	atcggcgacgaccagtgtgagcccg	W62503
28464	ccagacgaagcgctctacgctgctt	W82980	71068	caagtctcgcaaagagcgggaagcg	AA068153	113672	cggcgacgaccagtgtgagcccgga	W62503
28465	gaagcgctctacgctgcttcggctt	W82980	71069	agtctcgcaaagagcgggaagcgga	AA068153	113673	aagcgctagacctgtgaggtgtgcg	W62503
28466	ctctacgctgcttcggcttcgtgat	W82980	71070	atctttatgcgctgagacaggcgta	D31863	113674	aagacatggctcccaacgtgttggc	W62503
28467	tgccaactatgagcgcttcgtgcct	D63380	71071	tttatgcgctgagacaggcgtacag	D31863	113675	gacatggctcccaacgtgttggctt	W62503
28468	cgtggacgatttccctaatgctgct	D63380	71072	tgtactggtcaggatgtgggacact	D31863	113676	tggctcccaacgtgttggcttccga	W62503
28469	catccacaacttggcagactggttc	D63380	71073	ggacactcttccactgtgctactca	D31863	113677	tccgaaccggagattccgaaggcat	W62503
28470	caacttggcagactggttccagcga	D63380	71074	cactcttccactgtgctactcataa	D31863	113678	agattccgaaggcatccgggccgtg	W62503
28471	atgaggccattctgctgtgaactga	D63380	71075	tcttccactgtgctactcataatta	D31863	113679	agccatggtagcttctggctcagag	W62503
28472	ccattctgctgtgaactgactacat	D63380	71076	actgtgctactcataattatctgaa	D31863	113680	tagcttctggctcagagctaggaaa	W62503
28473	tggccttggctgcgttttctaaata	D63380	71077	gtgctactcataattatctgaaatg	D31863	113681	gcttctggctcagagctaggaaaaa	W62503
28474	gccctcgtggctttttacagagag	D63380	71078	tactgtgttgcttttgatgtcatac	D31863	113682	ttctggctcagagctaggaaaaaag	W62503
28475	ttctggtaaggggctgcggtgtcct	D63380	71079	cacatgaaaccagtgtgctaaaaca	D31863	113683	gacgaccagtgtgagcccggagtag	W62503
28476	ccttccttacctgtcacccatgtga	D63380	71080	tgctaaaacatgctcatgtccagta	D31863	113684	cgaccagtgtgagcccggagtagga	W62503
28477	ttacctgtcacccatgtgaagaagt	D63380	71081	atgctcatgtccagtaataaagatg	D31863	113685	accagtgtgagcccggagtaggatg	W62503
28478	gtcacccatgtgaagaagtgggcta	D63380	71082	cgctgagacaggcgtacaggttaac	D31863	113686	cagtgtgagcccggagtaggatgta	W62503
28479	cgatttccctaatgctgcttccctg	D63380	71083	cagtgccaatatctacggtagactg	D31863	113687	taggatgtacgctggcctggaagcg	W62503
28480	tctcgaccgaaacgtggctgtctat	D63380	71084	caatatctacggtagactgaggcat	D31863	113688	ggatgtacgctggcctggaagcgct	W62503
28481	ctacttccgctggcgccggagcttt	D63380	71085	ctacggtagactgaggcatgtgtaa	D31863	113689	gtacgctggcctggaagcgctagac	W62503
28482	gagctttgcagtgcacatcacctct	D63380	71086	tgtgtaacacttggctgtatttatt	D31863	113690	acgctggcctggaagcgctagacct	W62503
28483	tgcagtgcacatcacctctttctgg	D63380	71087	atttgctcttgtgggcaaatatgta	D31863	113691	gtctgtcccatcctgcagtgtttgg	L33726
28484	gtgccggacatgccaagctgtgcag	D63380	71088	agttgtcagtgttgtactggtcagg	D31863	113692	tgtcccatcctgcagtgtttgggcc	L33726
28485	ccaagctgtgcagacctctggggac	D63380	71089	cagtgttgtactggtcaggatgtgg	D31863	113693	cctggcctgactggaagcagaaaaa	L33726
28486	caagagcatccacaacttggcagac	D63380	71090	gtcactgcctctgccaagtccactg	U60150	113694	gaaaggccctaggcaagcctgccct	L33726
28487	ctgaggctcagcgcacaactgcagg	W82958	71091	gagactgcagcagacccaggcccag	U60150	113695	aggccctaggcaagcctgccctgtt	L33726
28488	gcgcacaactgcaggtagctcttta	W82958	71092	catcatcatcatcgtttacttcagc	U60150	113696	attggtgctccacgtctccagacac	L33726
28489	ggaccgtcatgcggtcactgtggtc	W82958	71093	catcatcatcgtttacttcagcact	U60150	113697	caccatgcatctcactctgggtgta	L33726
28490	gaccgtcatgcggtcactgtggtca	W82958	71094	catcatcgtttacttcagcacttaa	U60150	113698	catgcatctcactctgggtgtactc	L33726
28491	accgtcatgcggtcactgtggtcag	W82958	71095	catcgtttacttcagcacttaaatc	U60150	113699	cactctgggtgtactcgctcacatt	L33726
28492	ccgtcatgcggtcactgtggtcaga	W82958	71096	ttacttcagcacttaaatccctgag	U60150	113700	aactgtcatttctataactctgaag	L33726

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28493	cgtcatgcggtcactgtggtcagaa	W82958	71097	cttcagcacttaaatccctgaggag	U60150	113701	catttctataactctgaagacccat	L33726
28494	gtcatgcggtcactgtggtcagaac	W82958	71098	cagcacttaaatccctgaggagtct	U60150	113702	aactctgaagacccatgatagtaag	L33726
28495	tcatgcggtcactgtggtcagaacc	W82958	71099	cacttaaatccctgaggagtctgcc	U60150	113703	cccatcctgcagtgtttgggcctgg	L33726
28496	catgcggtcactgtggtcagaaccc	W82958	71100	ttaaatccctgaggagtctgccctg	U60150	113704	ggcctggctctttgactcaaagcta	L33726
28497	cgcacaactgcaggtagctctttac	W82958	71101	aatccctgaggagtctgccctgcct	U60150	113705	gctctttgactcaaagctagctagg	L33726
28498	cacaactgcaggtagctctttacag	W82958	71102	aagtgcagccaagctcaagcgcaaa	U60150	113706	tgactcaaagctagctaggtggcac	L33726
28499	ctgcaggtagctctttacagcagtg	W82958	71103	agtctgccctgcctaagaagggcct	U60150	113707	agctaggtggcactccgtgtcgctc	L33726
28500	caggtagctctttacagcagtgaga	W82958	71104	tgcagccaagctcaagcgcaaatac	U60150	113708	cgtgtcgctcctgcacattctggaa	L33726
28501	aggtagctctttacagcagtgagaa	W82958	71105	agccaagctcaagcgcaaatactgg	U60150	113709	gtcgctcctgcacattctggaaggg	L33726
28502	ctctttacagcagtgagaagctgag	W82958	71106	caagctcaagcgcaaatactggtgg	U60150	113710	ccccctggcctgactggaagcagaa	L33726
28503	tcaagtgaagctttctccctattcg	W82958	71107	agtgatctgcgccatcatcctcatc	U60150	113711	gtcttgctagtgtcttcaaaaaagt	AA163272
28504	caagtgaagctttctccctattcga	W82958	71108	gatctgcgccatcatcctcatcatc	U60150	113712	tcaaaaaagttcaccatgggcagaa	AA163272
28505	atcttcgcacctcaaggcgcacctg	AA015486	71109	catcctcatcatcatcatcgtttac	U60150	113713	caggccccgtgcgacagcatcctgt	AA163272
28506	gaggcctttcacactgcagctggca	AA015486	71110	cctcatcatcatcatcgtttacttc	U60150	113714	tccctacaaatctccattttcatgc	AA163272
28507	tcagctgccccatctgtgagaagcg	AA015486	71111	taactggccatcgctggttcttcag	U60593	113715	ctacaaatctccattttcatgcttt	AA163272
28508	gctgccccatctgtgagaagcgctt	AA015486	71112	ttctgtacattccacgggaacttgc	U60593	113716	caaatctccattttcatgctttcca	AA163272
28509	gccccatctgtgagaagcgcttcat	AA015486	71113	ctttcctataggaaatgtgatcaga	U60593	113717	tccattttcatgctttccagttcac	AA163272
28510	agaagcgcttcatgcggacgaccac	AA015486	71114	gacacttgatcgttgggagtcagcc	U60593	113718	attttcatgctttccagttcactct	AA163272
28511	agcgcttcatgcggacgaccacctg	AA015486	71115	ggcctggcgacttccaggatcttgg	U60593	113719	ttcatgctttccagttcactctcta	AA163272
28512	gcttcatgcggacgaccacctgacg	AA015486	71116	tagttatgccctataggcggcatga	U60593	113720	acactggcagccctccaattggtag	AA163272
28513	tcatgcggacgaccacctgacgaag	AA015486	71117	tgccctataggcggcatgagagaca	U60593	113721	gccctccaattggtagtgtctgtca	AA163272
28514	tgcggacgaccacctgacgaagcac	AA015486	71118	tcagtttacctgccaactcctaccg	U60593	113722	gtgtctgtcacttaaaggttaacag	AA163272
28515	ggacgaccacctgacgaagcacgca	AA015486	71119	tcaggaatccaggccagggtgattg	U60593	113723	aagttcaccatgggcagaaagataa	AA163272
28516	agcgactacagccgctccgatgcca	AA015486	71120	actgtatatgtctctccagggcagt	U60593	113724	ttcaccatgggcagaaagataaagg	AA163272
28517	gcctttcacactgcagctggcagga	AA015486	71121	tatgtctctccagggcagtttctta	U60593	113725	aaggcacacatgtttcagcaagtgt	AA163272
28518	tttcacactgcagctggcaggagtg	AA015486	71122	tctccagggcagtttcttaataaga	U60593	113726	gcacacatgtttcagcaagtgtcct	AA163272
28519	agttcgcacgctcggacgagctggc	AA015486	71123	cctgctgactgggtttgtagcattg	U60593	113727	caagtgtccttgacagcagccattg	AA163272
28520	cacgctcggacgagctggcacggca	AA015486	71124	gtttgtagcattggcctcttaagca	U60593	113728	tccttgacagcagccattgctcttc	AA163272
28521	gctcggacgagctggcacggcacta	AA015486	71125	agcattggcctcttaagcaatgcca	U60593	113729	acagcagccattgctcttctcagtg	AA163272
28522	agctggcacggcactatcgcacgca	AA015486	71126	agcctaatgcccatgctccatacta	U60593	113730	tgcaagctctggtgataccaggccc	AA163272
28523	cgcacacgggcgagaagaagttcag	AA015486	71127	atgcccatgctccatactactgcct	U60593	113731	atatagacatctcgaaggatatcta	W13704
28524	agaagttcagctgccccatctgtga	AA015486	71128	atgctccatactactgcctttgat	U60593	113732	tcctgtcacagggtaacagcatgta	W13704
28525	tgaccaagggtggcccagtgtaaat	X59990	71129	catactactgcctttgattcttac	U60593	113733	agcttggccctctatcagtacacgc	W13704
28526	tcacagggcaccttagacggtctgg	X59990	71130	ttttgattcttactgtggctaacct	U60593	113734	cttggccctctatcagtacacgcaa	W13704
28527	tcatttctaatcgtcgcagtgtttc	X59990	71131	tgaagaacaccgagggttgaattct	AA068260	113735	ttggccctctatcagtacacgcaaa	W13704
28528	gtcgcagtgtttcctgctttgggcc	X59990	71132	tgaattctctaagcagccgtaatta	AA068260	113736	ggccctctatcagtacacgcaaatg	W13704
28529	gtgtttcctgctttgggccagcaaa	X59990	71133	cctcatttctgcacaggaaatctgc	AA068260	113737	cctctatcagtacacgcaaatggtt	W13704
28530	cctgctttgggccagcaaagaagcc	X59990	71134	catttctgcacaggaaatctgcaaa	AA068260	113738	ctctatcagtacacgcaaatggttc	W13704
28531	agaagcctgatgactgcatagggtt	X59990	71135	tttctgcacaggaaatctgcaaagc	AA068260	113739	ctatcagtacacgcaaatggttcta	W13704
28532	tacttagacgcaccgtgtttgtgac	X59990	71136	ttctgcacaggaaatctgcaaagcg	AA068260	113740	tatcagtacacgcaaatggttctaa	W13704
28533	gacgcaccgtgtttgtgactactac	X59990	71137	aaatctgcaaagcggtgtaaagcca	AA068260	113741	tcagtacacgcaaatggttctaagt	W13704
28534	ctactacagcaatcaccatagctac	X59990	71138	tgtaaagccacatagtacgaatggc	AA068260	113742	tacacgcaaatggttctaagtccct	W13704
28535	cagcaatcaccatagctacgagatg	X59990	71139	gtaaagccacatagtacgaatggct	AA068260	113743	cctgtcacagggtaacagcatgtac	W13704
28536	tcaccatagctacgagatgagattt	X59990	71140	aaagccacatagtacgaatggctgg	AA068260	113744	gtaacagcatgtacgcacgcattgc	W13704
28537	ggcaccttagacggtctggagaagg	X59990	71141	aatcgatggtcccgagaagagggag	AA068260	113745	gctccatccatggcttcgctgtcta	W13704
28538	gaaggtaccagaaacctcttctgag	X59990	71142	atcgatggtcccgagaagagggaga	AA068260	113746	tccatggcttcgctgtctacctacc	W13704
28539	acacagtacccaggaagttgattgc	X59990	71143	gaattctctaagcagccgtaattaa	AA068260	113747	acgatgaagcttggccctctatcag	W13704
28540	acgcatggctacagttactaatgga	X59990	71144	tggaaaaacccgtggtctatgattg	AA068260	113748	cgatgaagcttggccctctatcagt	W13704
28541	agttactaatggactctgctgcaga	X59990	71145	aacccgtggtctatgattgcctcat	AA068260	113749	tgaagcttggccctctatcagtaca	W13704
28542	acatgcttccctgttattccagctt	X59990	71146	tggtctatgattgcctcatttctgc	AA068260	113750	aagcttggccctctatcagtacacg	W13704
28543	gcaaattcaccatcgggctcatttc	X59990	71147	ggtctatgattgcctcatttctgca	AA068260	113751	ctccctttcagactgtctgtacgca	W13715
28544	tcaccatcgggctcatttctaatcg	X59990	71148	ctatgattgcctcatttctgcacag	AA068260	113752	cctttcagactgtctgtacgcacaa	W13715
28545	acgcctgcgccggctatgtcaccat	W83425	71149	atgattgcctcatttctgcacagga	AA068260	113753	aatctgcagtactgacatcggtttc	W13715
28546	ctgcgccggctatgtcaccatcaca	W83425	71150	attgcctcatttctgcacaggaaat	AA068260	113754	ctgcagtactgacatcggtttcggc	W13715
28547	tctagctgcgcgttgtagtatcggc	W83425	71151	ctgcatagcctggacccacgaaggc	AA068279	113755	tgacatcggtttcggcgtctcttgt	W13715
28548	agctgcgcgttgtagtatcggctct	W83425	71152	catagcctggacccacgaaggcagg	AA068279	113756	catcggtttcggcgtctcttgtcca	W13715
28549	gttgtagtatcggctctggtggcta	W83425	71153	aatgagtgcttctctggaaaacact	AA068279	113757	cgtctcttgtccactgggcagtttt	W13715
28550	gtagtatcggctctggtggctacac	W83425	71154	ttctctggaaaacactgcacagtgt	AA068279	113758	ctcttgaagaagcccttgcagccct	W13715
28551	tagtatcggctctggtggctacaca	W83425	71155	cactgcacagtgtctattaaccttc	AA068279	113759	tcgcaggtgcggactccgtagtgct	W13715
28552	gtatcggctctggtggctacacatc	W83425	71156	gtgtctattaaccttcaaggatgtg	AA068279	113760	caggtgcggactccgtagtgctggc	W13715
28553	tatcggctctggtggctacacatcg	W83425	71157	tctattaaccttcaaggatgtgttt	AA068279	113761	actccgtagtgctggcaggcagcgt	W13715
28554	gtggctacacatcggcggtgccgcg	W83425	71158	tttggacttctcatcggaggaatgg	AA068279	113762	tagtgctggcaggcagcgttgtcgc	W13715
28555	tggctacacatcggcggtgccgcgt	W83425	71159	atgtctcaattttgctcagaggaca	AA068279	113763	ttcagactgtctgtacgcacaactt	W13715
28556	gctacacatcggcggtgccgcgtgc	W83425	71160	tctcaattttgctcagaggacattg	AA068279	113764	ctgtctgtacgcacaacttccttaa	W13715
28557	tgcgacgctctcatggtcgctgaca	W83425	71161	caattttgctcagaggacattgtac	AA068279	113765	tctgtacgcacaacttccttaacca	W13715
28558	gacgctctcatggtcgctgacatct	W83425	71162	ttttgctcagaggacattgtacatg	AA068279	113766	accatcccgacactgagacacttct	W13715
28559	gctgacatctagcccggctccactt	W83425	71163	agcctggacccacgaaggcaggaat	AA068279	113767	atcccgacactgagacacttctgaa	W13715
28560	tgacatctagcccggctccacttct	W83425	71164	ttactagaggccaggttcactggag	AA068279	113768	ccgacactgagacacttctgaaatc	W13715

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28561	ggctccacttctagctgcgcgttgt	W83425	71165	ctagaggccaggttcactggagttg	AA068279	113769	ctgagacacttctgaaatctgcagt	W13715
28562	ctccacttctagctgcgcgttgtag	W83425	71166	gccaggttcactggagttggtaact	AA068279	113770	cacttctgaaatctgcagtactgac	W13715
28563	tccacttctagctgcgcgttgtagt	W83425	71167	ttgaatgtttgctcctcaccaagaa	AA068279	113771	aggactgccagagctcttttacctg	M64782
28564	ttctagctgcgcgttgtagtatcgg	W83425	71168	aatgtttgctcctcaccaagaatct	AA068279	113772	gccagagctcttttacctgcaagag	M64782
28565	tgccgaaagctacaccttcttcctt	W83455	71169	gtttgctcctcaccaagaatctggg	AA068279	113773	ttcatgggacctggccactcttgtg	M64782
28566	gaaagctacaccttcttccttgaca	W83455	71170	tgctcctcaccaagaatctgggaga	AA068279	113774	ggacctggccactcttgtgcagcct	M64782
28567	cttcttccttgacatcctgctgagt	W83455	71171	tgggctgtacagggtgccagataga	D12618	113775	tagtgctgctctgggtgatcagctg	M64782
28568	cttgacatcctgctgagttccatca	W83455	71172	ctcctgaagttcctgagaatggcga	D12618	113776	tgctctgggtgatcagctgagttcc	M64782
28569	tgacatcctgctgagttccatcagg	W83455	71173	gatcagtgctgtacttcactggaga	D12618	113777	tcagctgagttcctgttttaccttc	M64782
28570	gacatcctgctgagttccatcaggg	W83455	71174	tgctgtacttcactggagaggctat	D12618	113778	ctgttttaccttcagttgtctggag	M64782
28571	acatcctgctgagttccatcaggga	W83455	71175	tcactggagaggctatcgaggacga	D12618	113779	taccttcagttgtctggagcgccac	M64782
28572	tcctgctgagttccatcagggatgg	W83455	71176	acgatccagactatgacccaaagaa	D12618	113780	tggggctctgacagcctctttaata	M64782
28573	cctgctgagttccatcagggatgga	W83455	71177	atccagactatgacccaaagaagga	D12618	113781	aaaccagacattccacatgtgcctt	M64782
28574	ctgctgagttccatcagggatggaa	W83455	71178	cagactatgacccaaagaaggatca	D12618	113782	gacattccacatgtgccttatgaat	M64782
28575	agttccatcagggatggaatcagcg	W83455	71179	agaacccagccgagtgcaagcagca	D12618	113783	gctcttttacctgcaagagcaattg	M64782
28576	aaagctacaccttcttccttgacat	W83455	71180	cagccgagtgcaagcagcagtgagc	D12618	113784	acattccacatgtgccttatgaatt	M64782
28577	aagctacaccttcttccttgacatc	W83455	71181	cagtgactggccttgaggacggccg	D12618	113785	ttacctgcaagagcaattggcacaa	M64782
28578	agctacaccttcttccttgacatcc	W83455	71182	tgactggccttgaggacggccgccc	D12618	113786	ggaactggtcctctgggcataacga	M64782
28579	gctacaccttcttccttgacatcct	W83455	71183	cgatactggctgcagactttgaaat	D12618	113787	ggtcctctgggcataacgagtgtcc	M64782
28580	ctacaccttcttccttgacatcctg	W83455	71184	tactggctgcagactttgaaattgg	D12618	113788	ataacgagtgtcctgtgggagcctc	M64782
28581	tacaccttcttccttgacatcctgc	W83455	71185	gtcacttttacgtgagcgcataat	D12618	113789	tccccacatctgctgctctgtgtga	M64782
28582	accttcttccttgacatcctgctga	W83455	71186	ttttacgtgagcgcataatcccaag	D12618	113790	catctgctgctctgtgtgaggaaat	M64782
28583	ccttcttccttgacatcctgctgag	W83455	71187	tacgtgagcgcataatcccaagatc	D12618	113791	ctgggcttcatgggacctggccact	M64782
28584	ttactctctctgaccctggagtcac	D13867	71188	gcataatcccaagatcagtgctgta	D12618	113792	attaacaagtgcccaaacacagcac	M64817
28585	tctctgaccctggagtcacaccact	D13867	71189	taatcccaagatcagtgctgtactt	D12618	113793	aagtgcccaaacacagcaccctgtc	M64817
28586	acacctccaacattaccaatgtgac	D13867	71190	tcccaagatcagtgctgtacttcac	D12618	113794	catgcagcagtacttcttgtgccca	M64817
28587	ccaacattaccaatgtgaccgtgaa	D13867	71191	agagcttgtcgtctttttcgctata	M97635	113795	gcagtacttcttgtgcccagcctgg	M64817
28588	gcaccttcattgaggactacaaaga	D13867	71192	tgtcgtctttttcgctatattagac	M97635	113796	agcctggccccagtgctgtcattat	M64817
28589	tagatggctgggctaccctgttcct	D13867	71193	tctagcataccatgtagttcctatg	M97635	113797	gccccagtgctgtcattatggctcc	M64817
28590	gctgggctaccctgttcctgagaac	D13867	71194	agcataccatgtagttcctatggag	M97635	113798	tggctccctggctgagaggtcagtc	M64817
28591	tgttcctgagaaccagcatccctac	D13867	71195	agttcctatggagtattgtgagagc	M97635	113799	tctacccttggtctggttcaactct	M64817
28592	tgagaaccagcatccctaccatcaa	D13867	71196	agtttccattgttggtttattgcag	M97635	113800	ctggttcaactcttcaaagaataag	M64817
28593	tccctaccatcaacatggagaacaa	D13867	71197	tattctgtgtcaaattcaaggtatt	M97635	113801	catccagttcctgatccatgttggg	M64817
28594	catggttctctgtggacattgactc	D13867	71198	tattgataaaccttttcaaccagca	M97635	113802	ctacaatcattttcaataaatctat	M64817
28595	agagccagccgtcagagacagaaag	D13867	71199	tgataaaccttttcaaccagcagca	M97635	113803	tcatttttcaataaatctatgacaca	M64817
28596	cgcctgtcacactagctgctgccaa	D13867	71200	taaaccttttcaaccagcagcaaga	M97635	113804	acagcaccctgtcacacgtttgagt	M64817
28597	tcacactagctgctgccaaaaaagc	D13867	71201	accttttcaaccagcagcaagaagt	M97635	113805	atctatgacacatctgggcctaatg	M64817
28598	tagctgctgccaaaaaagccaagtc	D13867	71202	tcaaccagcagcaagaagttcaaat	M97635	113806	tttgagtactacttcccgacaccag	M64817
28599	ctgccaaaaaagccaagtctgagac	D13867	71203	ctttttcgctatattagactttgca	M97635	113807	gccagcctttgcgagggtctctgga	M64817
28600	ccaagtctgagactgtgttgacctg	D13867	71204	tttcgctatattagactttgcagta	M97635	113808	ctttgcgagggtctctggagtcact	M64817
28601	ctgtgttgacctgctccaatggccg	D13867	71205	ctttgcagtatgcccagaagctttc	M97635	113809	tcaacccagggcaatcccaatgagg	M64817
28602	tgacctgctccaatggccgtgcccg	D13867	71206	agtatgcccagaagctttccttcat	M97635	113810	aatcccaatgaggacgtggtgaagt	M64817
28603	ttccagacacctccaacattaccaa	D13867	71207	taccataacctgttcattaatatca	M97635	113811	gcttcctttatgacatctgggactg	M64817
28604	ttccagcagcttttagcaggtgaat	W83519	71208	cataacctgttcattaatatcagaa	M97635	113812	gtgccccatgcagcagtacttcttg	M64817
28605	tccagcagcttttagcaggtgaata	W83519	71209	aacctgttcattaatatcagaaatt	M97635	113813	tcccattctgggcaaagacaacacc	W85447
28606	tctcccagaacaagccttctacatg	W83519	71210	ggttctagcataccatgtagttcct	M97635	113814	caaagacaacaccatcgaacacctc	W85447
28607	ctcccagaacaagccttctacatgg	W83519	71211	attgacatctactggctgttcgatg	U61085	113815	agtccgactgaatatcatctccaac	W85447
28608	caagccttctacatggtgggaccca	W83519	71212	atctactggctgttcgatgatggag	U61085	113816	cgactgaatatcatctccaacctgg	W85447
28609	agccttctacatggtgggacccatt	W83519	71213	tgtccctggaagatctcagatgaag	U61085	113817	aatatcatctccaacctggattgtg	W85447
28610	gccttctacatggtgggacccattc	W83519	71214	tcccttcggcaggtgagactgagtg	U61085	113818	tatcatctccaacctggattgtgtg	W85447
28611	ccttctacatggtgggacccattcg	W83519	71215	ctgctggattactctcgggatgctg	U61085	113819	tcatctccaacctggattgtgtgaa	W85447
28612	tctacatggtgggacccattcgaag	W83519	71216	tctcgggatgctgctctgatcatcc	U61085	113820	tcctgccatcgtggaactagctgaa	W85447
28613	gtgggacccattcgaagaagccgtg	W83519	71217	gatgctgctctgatcatccttaccc	U61085	113821	ctgccatcgtggaactagctgaaga	W85447
28614	attcgaagaagccgtgctaaaggct	W83519	71218	agttcgctgtacatggcctggctgg	U61085	113822	agatgccaagtgagcgagtgcggct	W85447
28615	agaagccgtgctaaaggctgattaa	W83519	71219	ctgtacatggcctggctggagaccc	U61085	113823	caagtgagcgagtgcggctggccat	W85447
28616	ccagcagcttttagcaggtgaatat	W83519	71220	atggcctggctggagaccctgtccc	U61085	113824	agtgcggctggccatcattgaatac	W85447
28617	tgaatatgaccatctcccagaacaa	W83519	71221	ctcatccgaggcaaccaggagaatg	U61085	113825	gacaacaccatcgaacacctcttgc	W85447
28618	gaatatgaccatctcccagaacaag	W83519	71222	gagaatgtgctcacctttttactgcc	U61085	113826	cttgcccctgttcttggctcagctg	W85447
28619	aatatgaccatctcccagaacaagc	W83519	71223	ctcctgcaccgcaagaagagatggg	U61085	113827	cctgttcttggctcagctgaaggat	W85447
28620	tatgaccatctcccagaacaagcct	W83519	71224	tgctcacctttttactgccagtgatg	U61085	113828	ttcttggctcagctgaaggatgagt	W85447
28621	tgaccatctcccagaacaagccttc	W83519	71225	aaggcgatcatctctctgttgagca	U61085	113829	cttggctcagctgaaggatgagtgt	W85447
28622	accatctcccagaacaagccttcta	W83519	71226	atcatctctctgttgagcaagttca	U61085	113830	agtgtcctgaagtccgactgaatat	W85447
28623	catctcccagaacaagccttctaca	W83519	71227	catgaagttcacgtccttcccgaca	U61085	113831	tgtcctgaagtccgactgaatatca	W85447
28624	caccctcatcagcgtggtccagaat	W83564	71228	cacaccaagcggtttgaggacatga	U61085	113832	tcctgaagtccgactgaatatcatc	W85447
28625	catcagcgtggtccagaatgcgttc	W83564	71229	gacatgattgcacccttccgcctca	U61085	113833	gactacctggaccagctgacccaga	W13523
28626	gccaaccagaactgcgtagatgcgt	W83564	71230	cgcctcaatgatggcttcaaggacg	U61085	113834	tacctggaccagctgacccagatcc	W13523
28627	gtagatgcgtaccccacttccttg	W83564	71231	gaggccaccgtcactgagatgagga	U61085	113835	aaggatttcacacagctcttcccac	W13523
28628	cccactttccttgtgatactctgga	W83564	71232	ccactttcacgggaggctgtcaact	AA068289	113836	agtccgcaagctgcagacctgctcg	W13523

TABLE 1

SEQ ID NO	sequence	DBAxnID
28629	actttccttgtgatactctggactg	W83564
28630	gtgatactctggactgcaggactac	W83564
28631	ctactttgcagccaagtccctgccg	W83564
28632	gccttcgccggactgatgtacctgt	W83564
28633	ttcgccggactgatgtacctgtttg	W83564
28634	ctgatgtacctgtttgtgaggcaaa	W83564
28635	atgtacctgtttgtgaggcaaaaat	W83564
28636	ggtccagaatgcgttctttgcccac	W83564
28637	tgcgttctttgcccacaaggtggag	W83564
28638	gttctttgcccacaaggtggagcat	W83564
28639	agcttccagaggaccgggactcttg	W83564
28640	cttgcctttgagcgggtctacactg	W83564
28641	gcctttgagcgggtctacactgcca	W83564
28642	gtctacactgccaaccagaactgcg	W83564
28643	tacactgccaaccagaactgcgtag	W83564
28644	aatatccaaagactgtactggccag	AA117100
28645	tatccaaagactgtactggccagtg	AA117100
28646	cgttgcatcttttccactcgggcac	AA117100
28647	ttgcatcttttccactcgggcacaa	AA117100
28648	atcttttccactcgggcacaatcgg	AA117100
28649	cttttccactcgggcacaatcggtg	AA117100
28650	tttccactcgggcacaatcggtgtg	AA117100
28651	tccactcgggcacaatcggtgtgct	AA117100
28652	ctcgggcacaatcggtgtgctgggt	AA117100
28653	ggcacaatcggtgtgctgggttaat	AA117100
28654	cacaatcggtgtgctgggttaatgg	AA117100
28655	atcggtgtgctgggttaatggctag	AA117100
28656	gactgtactggccagtgtcctttac	AA117100
28657	ctgtactggccagtgtcctttactt	AA117100
28658	taggtagatccagaccgtgagatgt	AA117100
28659	ggtagatccagaccgtgagatgttt	AA117100
28660	tagatccagaccgtgagatgtttta	AA117100
28661	gatccagaccgtgagatgttttagg	AA117100
28662	taatgtagctatttttctcgttgca	AA117100
28663	ctcgttgcatcttttccactcgggc	AA117100
28664	attccaaggcccagaagaagaatcg	D10651
28665	aactgcgccggcagcactcctacga	D10651
28666	gtgcttgcttcacggcagcaaatcc	D10651
28667	cggcagcaaatcctacttcttcagg	D10651
28668	caaatcctacttcttcaggcagccc	D10651
28669	cttcaggcagcccacggtggcaggg	D10651
28670	ccttgtcaccaataagccagtggtg	D10651
28671	caccaataagccagtggtgtcggcc	D10651
28672	ctgtgccaggtcgtttccagaagga	D10651
28673	accccagggctttcaatggctccag	D10651
28674	tcaatggctccagcaatggacatgt	D10651
28675	gctccagcaatggacatgtttatga	D10651
28676	cctacgacaccttcgtggacctgca	D10651
28677	tgtttgagatgccagctggtgagag	D10651
28678	gctcctttgccaacaagtcctcagt	D10651
28679	ttgccaacaagtcctcagtgaccac	D10651
28680	acaagtcctcagtgaccactgccgg	D10651
28681	gcggctacatgctcagcaagtcgct	D10651
28682	acatgctcagcaagtcgctctaccc	D10651
28683	tgatcagtgcttgcttcacggcagc	D10651
28684	gatccagtcccgaacagtgaggcag	D13903
28685	gtcccgaacagtgaggcagttccag	D13903
28686	gttctgctatcgagccgcactagaa	D13903
28687	ctatcgagccgcactagaatacctg	D13903
28688	agccgcactagaatacctgggcagc	D13903
28689	ctttgatcactatgcaacctagaaa	D13903
28690	tcactatgcaacctagaaacccctt	D13903
28691	tgcaacctagaaacccctctggat	D13903
28692	ctacaggcccttcgctatccatgga	D13903
28693	cgctatccatggagtctcttctgag	D13903
28694	agtctcttctgagccatacagggca	D13903
28695	ttctgagccatacagggcacttgag	D13903
28696	gttcactgactggccagaacaagga	D13903
71233	cactttcacgggaggctgtcaactt	AA068289
71234	ctaatggttcggcttccagcatttc	AA068289
71235	taatggttcggcttccagcatttcc	AA068289
71236	atggttcggcttccagcatttccac	AA068289
71237	tggttcggcttccagcatttccacc	AA068289
71238	gttcggcttccagcatttccaccag	AA068289
71239	ttcggcttccagcatttccaccagg	AA068289
71240	cggcttccagcatttccaccaggaa	AA068289
71241	ggcttccagcatttccaccaggaac	AA068289
71242	cttccagcatttccaccaggaacct	AA068289
71243	ttccagcatttccaccaggaaccta	AA068289
71244	ctttcacgggaggctgtcaacttca	AA068289
71245	cagcatttccaccaggaacctagcc	AA068289
71246	tttcacgggaggctgtcaacttcaa	AA068289
71247	aggctgtcaacttcaaagtgctcac	AA068289
71248	gtgctcaccttaggctgaccaccgg	AA068289
71249	ttaggctgaccaccggcaaaattag	AA068289
71250	taggctgaccaccggcaaaattagg	AA068289
71251	atttggctaatggttcggcttccag	AA068289
71252	tttggctaatggttcggcttccagc	AA068289
71253	tctacaggtgtgccttcggggtcaa	U60961
71254	gggtcaagtgctgccactggcagta	U60961
71255	atcagtgtcctggtgatcattgtca	U60961
71256	agtgtcctggtgatcattgtcatca	U60961
71257	atcatcatcatcgtgtggtgtgtct	U60961
71258	atcgtgtggtgtgtctcttaatgaa	U60961
71259	actgaagcccgatattcaggatctt	U60961
71260	tattcaggatcttcttcaagacttt	U60961
71261	tcaggatcttcttcaagactttcta	U60961
71262	tcaagactttctacttagaacctgc	U60961
71263	tctacttagaacctgccgtgttatc	U60961
71264	acttagaacctgccgtgttatcgag	U60961
71265	agtgctgccactggcagtaatcgaa	U60961
71266	tagaacctgccgtgttatcgagctt	U60961
71267	gccactggcagtaatcgaagactcc	U60961
71268	agtaatcgaagactccagcagacac	U60961
71269	agactccagcagacacaaaatcaag	U60961
71270	ctccagcagacacaaaatcaagtag	U60961
71271	agagaccagaagctctcggagctag	U60961
71272	ctctcggagctagatgaccgcgcag	U60961
71273	ctagatgaccgcgcagatgcactgc	U60961
71274	ctgcttcagccgcagtgtctccctg	U61751
71275	ccaacatgaccagtaacaggcggtt	U61751
71276	tgatcatgctgggagctatctgtgc	U61751
71277	catgctgggagctatctgtgccatc	U61751
71278	gctatctgtgccatcatcgtggtag	U61751
71279	tatctgtgccatcatcgtggtagtg	U61751
71280	tctgtgccatcatcgtggtagtgat	U61751
71281	tgtgccatcatcgtggtagtgattg	U61751
71282	ccatcatcgtggtagtgattgtaat	U61751
71283	atcatcgtggtagtgattgtaatct	U61751
71284	tacttttttacttgagaatgtgcca	U61751
71285	ctttttacttgagaatgtgccatc	U61751
71286	catgaccagtaacaggcggttacag	U61751
71287	acgccttgcaggccggagcatcaca	U61751
71288	gccttgcaggccggagcatcacaat	U61751
71289	cttgcaggccggagcatcacaattt	U61751
71290	caggccggagcatcacaatttgaga	U61751
71291	agagcagtgctgccaagctaaaaag	U61751
71292	agcagtgctgccaagctaaaaagga	U61751
71293	atgatgatcatgctgggagctatct	U61751
71294	tgtggttcccaagcatgtgatggac	AA068350
71295	tcccaagcatgtgatggacgtggtg	AA068350
71296	ctacggcatggaggatgtgaagaag	AA068350
71297	gaagcgtgtcctggagttcattgca	AA068350
71298	tgtcctggagttcattgcagtcagc	AA068350
71299	gttcattgcagtcagccagctcaga	AA068350
71300	agtcagccagctcagaggctccaca	AA068350
113837	ccgcaagctgcagacctgctcgaca	W13523
113838	caagctgcagacctgctcgacaaga	W13523
113839	gcagacctgctcgacaagatgctgg	W13523
113840	gacctgctcgacaagatgctggagc	W13523
113841	aagcgtctgaccgctgctcaggcac	W13523
113842	cgtctgaccgctgctcaggcactgg	W13523
113843	ctgaccgctgctcaggcactggctc	W13523
113844	ttccgggaccctgaggaggagacag	W13523
113845	gaccagctgacccagatcctgaaag	W13523
113846	cagctgacccagatcctgaaagtga	W13523
113847	ctgacccagatcctgaaagtgactg	W13523
113848	atcctgaaagtgactggggtgccag	W13523
113849	ccaggtgccgagttcgtgcagaagc	W13523
113850	gacaaggcggccaaatcctatattc	W13523
113851	aaggcggccaaatcctatattcagt	W13523
113852	gccaaatcctatattcagtccctgc	W13523
113853	ttcatccttagtattgcatatagtc	W13693
113854	atccttagtattgcatatagtcctg	W13693
113855	atgcccattcgctccttgacctttt	W13693
113856	tcccagctccttgtcacggcttcag	W13693
113857	cagctccttgtcacggcttcagatg	W13693
113858	gtcacggcttcagatgatggctaca	W13693
113859	gatgtacaacatgccaatttggctg	W13693
113860	gtacaacatgccaatttggctggca	W13693
113861	caacatgccaatttggctggcacac	W13693
113862	gccaatttggctggcacactgagtg	W13693
113863	aatttggctggcacactgagtggcc	W13693
113864	acactgagtggccatgcgtcctggg	W13693
113865	gcatatagtcctgatgggaaatacc	W13693
113866	gggaaatacctggccagcggaccag	W13693
113867	tacctggccagcggaccagtagacg	W13693
113868	ctggccagcggaccagtagacggaa	W13693
113869	tttgacattgcaactggaaagcttt	W13693
113870	cttttgcatacgctggaaggccatg	W13693
113871	ttgcatacgctggaaggccatgcga	W13693
113872	gaaggccatgcgatgcccattcgct	W13693
113873	gcacctaccactgcaagggctatct	J05018
113874	accactgcaagggctatcttaggca	J05018
113875	attttctgcagaatcctcaatagct	J05018
113876	tgcagaatcctcaatagcttctcca	J05018
113877	atcctcaatagcttctccactgtca	J05018
113878	ttctccactgtcaaaggccactcat	J05018
113879	actgtcaaaggccactcatgtgatc	J05018
113880	aaaggccactcatgtgatccctaga	J05018
113881	cactcatgtgatccctagaaaagtc	J05018
113882	ctgttccacaggaattgcataaatg	J05018
113883	gcttcattaaaccaactgcagctgg	J05018
113884	ttaaaccaactgcagctggttatgt	J05018
113885	ttttcccattgttggtggcgattct	J05018
113886	cattgttggtggcgattctgtttgc	J05018
113887	cgattctgtttgctgtggacacggg	J05018
113888	ggttattgctctcaaccgaagaaca	J05018
113889	tgctctcaaccgaagaacagttcaa	J05018
113890	agttcaaatcagtcttggagattca	J05018
113891	aatcagtcttggagattcagaagac	J05018
113892	tcctaacctagatacatataggaac	J05018
113893	ccactcctaagttaggacatggagc	D12907
113894	atggagcccagatactatgatacca	D12907
113895	agggcagcctagctcttttgtcac	D12907
113896	gcctagctctttttgtcaccatgcc	D12907
113897	ctcttttgtcaccatgccccgagc	D12907
113898	tgtggccccagaactgcccatcctt	D12907
113899	catccttaaaatgatccttgcccag	D12907
113900	cctggcatacctgccctagaactgt	D12907
113901	atacctgccctagaactgttatgtt	D12907
113902	gccctagaactgttatgttgggcat	D12907
113903	tgagcctttgttgctttcaaaacga	D12907
113904	tttgttgctttcaaaacgagaacag	D12907

TABLE 1

SEQ ID NO	sequence	DBAxnID
28697	tgactggccagaacaaggagtgcca	D13903
28698	tggccaagatgggcccatttccgtg	D13903
28699	gcccatttccgtgcattgcagtgcc	D13903
28700	ttccgtgcattgcagtgccggcgtt	D13903
28701	agatatcttccagactgtcaaaatg	D13903
28702	gttaagaacacaacgaccagccatg	D13903
28703	aacacaacgaccagccatggtacaa	D13903
28704	caagccctagtgaggaccagagat	U34277
28705	atgtatccggtgaacgaagagctgt	U34277
28706	tccagagtagccatcgacctcacca	U34277
28707	atcgacctcaccaacaaagcttcga	U34277
28708	ctcaccaacaaagcttcgatggctt	U34277
28709	atggctttcttacaaaagcatttag	U34277
28710	gatgagaacctgattcctgggtcac	U34277
28711	attcctgggtcacccttgacgcag	U34277
28712	cagcaacactctccaggatcacaga	U34277
28713	cactctccaggatcacagacccaga	U34277
28714	ccaggatcacagacccagaattaga	U34277
28715	tcacagacccagaattagaagaact	U34277
28716	ctctttatcaactctgccaaattcc	U34277
28717	atcaactctgccaaattccagactc	U34277
28718	tctgccaaattccagactccaaagg	U34277
28719	cagactccaaaggacatcgcaaaaa	U34277
28720	tacaatcaagggctcaggcaccaga	U34277
28721	caagggctcaggcaccagaactttg	U34277
28722	ctcaggcaccagaactttgacgact	U34277
28723	atcgattccagagtagccatcgacc	U34277
28724	acgtatgcggctcgctgtgactgcc	W83710
28725	tatgcggctcgctgtgactgcctgc	W83710
28726	accttcagtagtcggtgccctcgtg	W83710
28727	ttcagtagtcggtgccctcgtgcga	W83710
28728	atagtcgaggcgatctctaagatgg	W83710
28729	gcgatctctaagatggcaggctgtc	W83710
28730	atctctaagatggcaggctgtctgt	W83710
28731	ttgatgacacggatgcgacgtcctg	W83710
28732	atgacacggatgcgacgtcctgcat	W83710
28733	acacggatgcgacgtcctgcatcgc	W83710
28734	cgacgtcctgcatcgccatcgtggc	W83710
28735	cgtcctgcatcgccatcgtggcgct	W83710
28736	cgttatcagttgacccactcaccgt	W83710
28737	cactcaccgtgtgaaggcactgact	W83710
28738	tcaccgtgtgaaggcactgactctg	W83710
28739	gacagcctgctcatctgcaagatgg	W83710
28740	gaagactatcctgcacgtatcgtga	W83710
28741	gactatcctgcacgtatcgtgaata	W83710
28742	atcgtgaatacttcagtagtcggt	W83710
28743	gtgaatacttcagtagtcggtgcc	W83710
28744	ttcctagaggcttctcgctttgctc	W83743
28745	tcctagaggcttctcgctttgctca	W83743
28746	gctttgctcaggagaatgagctgat	W83743
28747	gatgttcctggagaccagcgctctc	W83743
28748	tgttcctggagaccagcgctctcac	W83743
28749	gttcctggagaccagcgctctcacg	W83743
28750	gaccagcgctctcacgggtgagaat	W83743
28751	accagcgctctcacgggtgagaatg	W83743
28752	ccagcgctctcacgggtgagaatgt	W83743
28753	cgctctcacgggtgagaatgtggaa	W83743
28754	ctctcacgggtgagaatgtggaaga	W83743
28755	gaagaagctttcctcaagtgcgcgc	W83743
28756	cctagaggcttctcgctttgctcag	W83743
28757	agaagctttcctcaagtgcgcgcga	W83743
28758	ctagaggcttctcgctttgctcagg	W83743
28759	agaggcttctcgctttgctcaggag	W83743
28760	gaggcttctcgctttgctcaggaga	W83743
28761	aggcttctcgctttgctcaggagaa	W83743
28762	ggcttctcgctttgctcaggagaat	W83743
28763	ttctcgctttgctcaggagaatgag	W83743
28764	ctcgctttgctcaggagaatgagct	W83743

SEQ ID NO	sequence	DBAxnID
71301	cagccagctcagaggctccacacaa	AA068350
71302	ccagctcagaggctccacacaaggc	AA068350
71303	cagaggctccacacaaggcaagatc	AA068350
71304	aggctccacacaaggcaagatcctc	AA068350
71305	ctccacacaaggcaagatcctctgc	AA068350
71306	gagcaagcttgctctactggacaac	AA068350
71307	acaaggcaagatcctctgcttccac	AA068350
71308	actggacaaccactcctctgagttc	AA068350
71309	ccactcctctgagttcaatgtcact	AA068350
71310	tgtcactcgaaactacctggactgg	AA068350
71311	tcgaaactacctggactggctgaca	AA068350
71312	ctacctggactggctgacatccatc	AA068350
71313	ctggctgacatccatcccatggggc	AA068350
71314	ggaggaccactacggcatggaggat	AA068350
71315	tcccatcctttgaactactacacaa	AA068364
71316	cctttgaactactacacaaggagat	AA068364
71317	ctcgtttctactttgggctcaacat	AA068364
71318	gtttctactttgggctcaacatcga	AA068364
71319	actttgggctcaacatcgagacagg	AA068364
71320	ttgggctcaacatcgagacaggttt	AA068364
71321	ggctcaacatcgagacaggtttact	AA068364
71322	agcccacggtgttgaggagattccg	AA068364
71323	gtgctctgtctaccaccgacgtctt	AA068364
71324	ctgaccggcccactgtcatctatag	AA068364
71325	accggcccactgtcatctatagcag	AA068364
71326	ggcccactgtcatctatagcagcaa	AA068364
71327	ttgaactactacacaaggagatgct	AA068364
71328	ctgtcatctatagcagcaatcacaa	AA068364
71329	aactactacacaaggagatgctggg	AA068364
71330	agatcattcctcgatccatcctgat	AA068364
71331	tcattcctcgatccatcctgatgac	AA068364
71332	ttcctcgatccatcctgatgaccac	AA068364
71333	gatccatcctgatgaccacttttga	AA068364
71334	tcctgatgaccacttttgagaggag	AA068364
71335	tgaccacttttgagaggagccacta	AA068364
71336	ctgtccaacagagattacgtctaca	Z50024
71337	cagcgccgagacctggatgtggaca	Z50024
71338	tgtcagaactaccacaagaaaacct	Z50024
71339	tgggactccgtcatccatgaaggac	Z50024
71340	tccgtcatccatgaaggacatctct	Z50024
71341	tggctgtgctacaccacctgaggct	Z50024
71342	tccattcatacttccatcttcaagc	Z50024
71343	catacttccatcttcaagcgcatcc	Z50024
71344	tccatcttcaagcgcatcctattcc	Z50024
71345	ctattccagcactgctctgcagctc	Z50024
71346	cagcactgctctgcagctcatcgct	Z50024
71347	tgctctgcagctcatcgctcatgct	Z50024
71348	tacgtggtcctggcccagagtatct	Z50024
71349	cagctcatcgctcatgctgcttctt	Z50024
71350	agtatctcggcacctcagtttcccg	Z50024
71351	tctggggtcatccgagtgaaacagt	Z50024
71352	cagagcctggcgatcgagagtgacg	Z50024
71353	ggccaaattccgtcctggctcatta	Z50024
71354	attccgtcctggctcattaactggg	Z50024
71355	ctcattaactgggcagccaagaatg	Z50024
71356	aactgggcagccaagaatggagttc	Z50024
71357	ggtactacggtgctttggactactg	Z70662
71358	cggacattgagctcacccagtctcc	Z70662
71359	tctatcttacatccaacctagaatc	Z70662
71360	atcttacatccaacctagaatctgg	Z70662
71361	ttacatccaacctagaatctggggt	Z70662
71362	acctagaatctggggtccctgccag	Z70662
71363	tagaatctggggtccctgccaggtt	Z70662
71364	ggacagacttcaccctcaacatccg	Z70662
71365	ctgcaacctattactgtcagcacag	Z70662
71366	caacctattactgtcagcacagtag	Z70662
71367	cctattactgtcagcacagtaggga	Z70662
71368	attactgtcagcacagtagggagct	Z70662

SEQ ID NO	sequence	DBAxnID
113905	tactatgataccaaattcaggggtg	D12907
113906	agaggttcccatatcattctttcta	D12907
113907	aaattcaggggtgtcacagccattt	D12907
113908	gtcacagccattttgttctgccctg	D12907
113909	gccattttgttctgccctgcaagtt	D12907
113910	tgccctgcaagttttagatccaatc	D12907
113911	tttagatccaatctgcctcaacagt	D12907
113912	tccaatctgcctcaacagtcaatca	D12907
113913	catatttatggccaggcattttatc	D12907
113914	caataacttcgcttatatgaacaac	J05019
113915	aaccgaagacgacggctgctttgtg	J05019
113916	cacattctgtcagtttttcaattgg	J05019
113917	gattgttctgcagatgccactcttt	J05019
113918	tctgcagatgccactcttttagtta	J05019
113919	gatgccactcttttagttatgctgt	J05019
113920	actcttttagttatgctgtatctga	J05019
113921	atgctgtatctgatcttctaaatat	J05019
113922	tatctgatcttctaaatatctccct	J05019
113923	taaatatctccctttttgcggatat	J05019
113924	tgtgtcacaatttcacatacatctt	J05019
113925	acaatttcacatacatcttttctgg	J05019
113926	ctttgtggcttctttcaccacagaa	J05019
113927	ggcttctttcaccacagaactggtg	J05019
113928	gatgctgtttctcaccatcctggcc	J05019
113929	gtttctcaccatcctggccttttgc	J05019
113930	caccatcctggccttttgcagtgct	J05019
113931	ggtcccagatgatcgtctttatgaa	J05019
113932	ggaaacatcttctccagttgattca	J05019
113933	atcttctccagttgattcataagaa	J05019
113934	cagctgtgttggcgacatggctgac	W13793
113935	ctgtgttggcgacatggctgacaac	W13793
113936	gtttaacatcatggtggttgggcag	W13793
113937	taacatcatggtggttgggcagagc	W13793
113938	cactttaatcaatacccttcttcaag	W13793
113939	taccctcttcaagtccaaaatcagc	W13793
113940	cctcttcaagtccaaaatcagccgg	W13793
113941	cttcaagtccaaaatcagccggaag	W13793
113942	caagtccaaaatcagccggaagtcg	W13793
113943	aatcagccggaagtcggtgcagccc	W13793
113944	cagccggaagtcggtgcagcccacc	W13793
113945	ggaacgcatccccaagacgatcgaa	W13793
113946	tgttggcgacatggctgacaaccct	W13793
113947	catggctgacaaccctagagatgcc	W13793
113948	ggctgacaaccctagagatgccatg	W13793
113949	tgacaaccctagagatgccatgctc	W13793
113950	caaccctagagatgccatgctcaag	W13793
113951	catggagttcggctatgtggggatc	W13793
113952	cgactccatcctggagcagatgcgc	W13793
113953	catcctggagcagatgcgcaggaag	W13793
113954	ggatgatctcagccgtgatcttgtt	W41745
113955	gatctcagccgtgatcttgttcttg	W41745
113956	ctgtcgactcaagatccaggtccga	W41745
113957	gtcgactcaagatccaggtccgaaa	W41745
113958	cgactcaagatccaggtccgaaagg	W41745
113959	actcaagatccaggtccgaaaggca	W41745
113960	aagatccaggtccgaaaggcagcta	W41745
113961	aagcagatgctgtctacacgggcct	W41745
113962	cacgggcctgaacaccccggagccag	W41745
113963	ggcctgaacaccccggagccaggaga	W41745
113964	tgaacaccccggagccaggagacata	W41745
113965	aacaccccggagccaggagacatatg	W41745
113966	tctcagccgtgatcttgttcttgct	W41745
113967	agccgtgatcttgttcttgctcctt	W41745
113968	tcttgctccttttggtggaacaagc	W41745
113969	ctatatcctggatgctgtcctgttt	W41745
113970	cctggatgctgtcctgtttttgtat	W41745
113971	tggatgctgtcctgtttttgtatgg	W41745
113972	tatggtattgtccttaccctactct	W41745

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
28765	gtctacctgtcggatataaatccat	W83784	71369	ttgagctcacccagtctccagcttc	Z70662	113973	tctactgtcgactcaagatccaggt	W41745
28766	gatataaatccatgacctctggaag	W83784	71370	ccaccatctcatgcagggccagcaa	Z70662	113974	aactctaaacagctccagcaaggcg	M34163
28767	acctggcaactgctgcacgagaccg	W83784	71371	ccatctcatgcagggccagcaaaag	Z70662	113975	ctccagcaaggcgagcctggctctg	M34163
28768	tggcaactgctgcacgagaccgagt	W83784	71372	aatatatacactggtaccaacagaa	Z70662	113976	aatgcccaatcaaaatacaccatca	M34163
28769	caactgctgcacgagaccgagtccg	W83784	71373	tacactggtaccaacagaaaccagg	Z70662	113977	caatcaaaatacaccatcacatcat	M34163
28770	ctgctgcacgagaccgagtccggac	W83784	71374	ccaaactcctcatctatcttacatc	Z70662	113978	accatcacatcatagcccagtctaa	M34163
28771	accactgctaagccgagccactatg	W83784	71375	aactcctcatctatcttacatccaa	Z70662	113979	acatcatagcccagtctaacagacc	M34163
28772	actgctaagccgagccactatggtg	W83784	71376	tcctcatctatcttacatccaacct	Z70662	113980	tagcccagtctaacagaccgcccctt	M34163
28773	gctaagccgagccactatggtggat	W83784	71377	caagtggtcagcctgcccaacatga	Z73151	113981	aaattacacctgcgaggtcacttgg	M34163
28774	aagccgagccactatggtggatgca	W83784	71378	ctgcccaacatgagggtgcagacct	Z73151	113982	cacctgcgaggtcacttgggctgct	M34163
28775	ccgagccactatggtggatgcacac	W83784	71379	ttcctctgaagtagcctcatcccta	Z73151	113983	cacttgggctgctgtttttctgcct	M34163
28776	agccactatggtggatgcacacacc	W83784	71380	tggccccctggaggcgctctgaccca	Z73151	113984	ggctgctgtttttctgcctgagtca	M34163
28777	aatccatgacctctggaaggcaaaa	W83784	71381	ctctgtccttcatattgttcactgc	Z73151	113985	tctgcctgagtcagagggcagccac	M34163
28778	ccatgacctctggaaggcaaaattg	W83784	71382	ccttcatattgttcactgcactgta	Z73151	113986	caaggcgagcctggctctgtctggt	M34163
28779	gctaatgctatctttactgcgcact	W83784	71383	tattgttcactgcactgtatgcgaa	Z73151	113987	gagcctggctctgtctggtaggcct	M34163
28780	aatgctatctttactgcgcactcag	W83784	71384	atgcgaagcacttacatgtatagat	Z73151	113988	ctcctcctgaggctgactacaaggt	M34163
28781	tttactgcgcactcagctgtagtac	W83784	71385	ttaatttgtcgctgaatctgggctg	Z73151	113989	ctgactacaaggtccagctatccaa	M34163
28782	actgcgcactcagctgtagtacgac	W83784	71386	tgggctgagtcccagtcttgactct	Z73151	113990	acaaggtccagctatccaagtactg	M34163
28783	gcgcactcagctgtagtacgacgag	W83784	71387	tgggcaaacatgtccaacctaggca	Z73151	113991	tatccaagtactgaagtctaacatc	M34163
28784	cactcagctgtagtacgacgagtga	W83784	71388	aatactggctttgctagatgtgaat	Z73151	113992	cacctaagtagcaatgcccaatcaa	M34163
28785	gacgtgtctgcacctgtgatcctag	U35141	71389	ggggcgctcatacccaggaggctgc	Z73151	113993	agtagcaatgcccaatcaaaataca	M34163
28786	tctgcacctgtgatcctagactctc	U35141	71390	ctcatacccaggaggctgcagccat	Z73151	113994	atgtcttcagatgcacagtggttga	W13739
28787	ttttacctggcagttgttccactgg	U35141	71391	tccccaaggatgtgcctttcatgca	Z73151	113995	gtcttcagatgcacagtggttgacg	W13739
28788	ctggcagttgttccactggtgaact	U35141	71392	aggatgtgcctttcatgcaaatctg	Z73151	113996	atgccatctacaaagagttctcctt	W13739
28789	gttagtctttgaccactatagtttg	U35141	71393	gaagtgctcattatactgggagagc	Z73151	113997	gttctccttcaaaaatttcaatcag	W13739
28790	ctttgaccactatagtttgatgcca	U35141	71394	taatgggcaatccctgtgtgtgctc	Z73151	113998	tccttcaaaaatttcaatcaggcgt	W13739
28791	gatgccatctccattttggttgacc	U35141	71395	gcaatccctgtgtgtgctctttgct	Z73151	113999	atttcaatcaggcgtttggctttat	W13739
28792	attttggttgacctgtctcaccatc	U35141	71396	tgtgctctttgcttcctctgaagta	Z73151	114000	ttcaatcaggcgtttggctttatgt	W13739
28793	gttgacctgtctcaccatcaggcct	U35141	71397	ggataataagcttaccctctgatca	U20973	114001	atcaggcgtttggctttatgtccag	W13739
28794	caccatcaggcctgttactctccat	U35141	71398	taagcttaccctctgatcacatgta	U20973	114002	tggctttatgtccagggttgccctg	W13739
28795	caggcctgttactctccatgactaa	U35141	71399	tgttccacttacatgaaatagagtc	U20973	114003	gctttatgtccagggttgccctgca	W13739
28796	tgttactctccatgactaactgtgt	U35141	71400	tccacttacatgaaatagagtctta	U20973	114004	tttatgtccagggttgccctgcaag	W13739
28797	cagctacccagctacaataggtgcc	U35141	71401	atatctattgtcttcctggctaaat	U20973	114005	gttgccctgcaagcagagaagatga	W13739
28798	cccagctacaataggtgccaccaac	U35141	71402	tttctctctctaagtgggatgcata	U20973	114006	cttcagatgcacagtggttgacggc	W13739
28799	aggtgccaccaacaatgctataagc	U35141	71403	atttcacaggtttccaatccactat	U20973	114007	ttcaacgtctacaacaaagtccaga	W13739
28800	caccaacaatgctataagcccaaac	U35141	71404	atgtatccagatcctacatttattt	U20973	114008	atgcacagtggttgacggcagagga	W13739
28801	caatgctataagcccaaaccaccgg	U35141	71405	aatggcttgcttttggtttgtgtca	U20973	114009	caacttattcctggcttgaaagcag	W13739
28802	tcagcaaagcctcgttggtggctcc	U35141	71406	gtcatttcttggcatattttgactg	U20973	114010	acttattcctggcttgaaagcagca	W13739
28803	tggctccaattgtggctgggtagct	U35141	71407	atttcttggcatattttgactgggg	U20973	114011	ttattcctggcttgaaagcagcagg	W13739
28804	ttgggaccaccaagttgtaaagatg	U35141	71408	tcttggcatattttgactgggggat	U20973	114012	aaagcagcagggtggtcggaactga	W13739
28805	ttggtcctgctttaccgtggcttcg	W83612	71409	taccctctgatcacatgtagcttac	U20973	114013	agagatgccatctacaaagagttct	W13739
28806	tggtcctgctttaccgtggcttcgt	W83612	71410	cctctgatcacatgtagcttacact	U20973	114014	agatgccatctacaaagagttctcc	W13739
28807	gtctcgtcagtttgcttggtttcgg	W83612	71411	acatgtagcttacacttgctgctag	U20973	114015	tgcttgaacggaacccggtgctcga	W18308
28808	tctcgtcagtttgcttggtttcggg	W83612	71412	tgtagcttacacttgctgctagctg	U20973	114016	ccgcttcgagcctgagccctttgca	W18308
28809	cgtgttgctggtggtgccttcggta	W83612	71413	agcttacacttgctgctagctggag	U20973	114017	gcctgagccctttgcaacttcgtcg	W18308
28810	gtgttgctggtggtgccttcggtaa	W83612	71414	cacttgctgctagctggaggtatat	U20973	114018	cctgagccctttgcaacttcgtcgt	W18308
28811	ctggtggtgccttcggtaatcgtgt	W83612	71415	ttgctgctagctggaggtatattag	U20973	114019	ctgagccctttgcaacttcgtcgtt	W18308
28812	gtggtgccttcggtaatcgtgtatt	W83612	71416	agagacccatgttccacttacatga	U20973	114020	tgagcccttgcaacttcgtcgttc	W18308
28813	ggtgccttcggtaatcgtgtatttg	W83612	71417	tccaagaatgccacacacctttccg	D26483	114021	atgtcttgttattttgaccgagatg	W18308
28814	gtgccttcggtaatcgtgtatttgc	W83612	71418	aatgccacacacctttccgtagata	D26483	114022	tgtcttgttattttgaccgagatga	W18308
28815	gccttcggtaatcgtgtatttgctg	W83612	71419	gctggcttccttgttcattgttcca	D26483	114023	gtcttgttattttgaccgagatgat	W18308
28816	tatttgctgaagtggatcggtactt	W83612	71420	ttccttgttcattgttccaagagat	D26483	114024	tcttgttattttgaccgagatgatg	W18308
28817	taccgtggcttcgtctcggtctcgt	W83612	71421	cttgttcattgttccaagagatggg	D26483	114025	ttgttattttgaccgagatgatgtg	W18308
28818	gtggcttcgtctcggtctcgtcagt	W83612	71422	tgaagcctgtgtaatcctgttacag	D26483	114026	tgttattttgaccgagatgatgtgg	W18308
28819	ggcttcgtctcggtctcgtcagttt	W83612	71423	tgtaatcctgttacaggttgtgttg	D26483	114027	cgcttcgagcctgagccctttgcaa	W18308
28820	gcttcgtctcggtctcgtcagtttg	W83612	71424	ttttcttgcattgacattattgacg	D26483	114028	gcttcgagcctgagccctttgcaac	W18308
28821	ttcgtctcggtctcgtcagtttgct	W83612	71425	gaggacctcatcagatcaatttaaa	D26483	114029	cttcgagcctgagccctttgcaact	W18308
28822	tcgtctcggtctcgtcagtttgctt	W83612	71426	tgcctctgtctagcatgccaacaag	D26483	114030	ttcgagcctgagccctttgcaactt	W18308
28823	tctcggtctcgtcagtttgcttggt	W83612	71427	ctctgtctagcatgccaacaagaat	D26483	114031	tcgagcctgagccctttgcaacttc	W18308
28824	tcggtctcgtcagtttgcttggttt	W83612	71428	tgtctagcatgccaacaagaatgca	D26483	114032	cgagcctgagccctttgcaacttcg	W18308
28825	ttcctgctctatgtctctgccgctt	W83893	71429	acacacctttccgtagatatgccga	D26483	114033	gagcctgagccctttgcaacttcgt	W18308
28826	tcctgctctatgtctctgccgcttt	W83893	71430	caccttccgtagatatgccgatgg	D26483	114034	agcctgagccctttgcaacttcgtc	W18308
28827	tctgccgctttcttcctgtatgatc	W83893	71431	ctttccgtagatatgccgatggtaa	D26483	114035	cgccttggaggtcccgtggatctgt	
28828	ctgccgctttcttcctgtatgatct	W83893	71432	tcctaccttcttcaggctgtcaagc	D26483	114036	cttggaggtcccgtggatctgtgta	
28829	tgccgctttcttcctgtatgatctg	W83893	71433	cttcttcaggctgtcaagcacggga	D26483	114037	gatctgtgtacttgcttcaacagtg	
28830	ccgctttcttcctgtatgatctggt	W83893	71434	cttcaggctgtcaagcacgggagag	D26483	114038	atctgtgtacttgcttcaacagtgt	
28831	cgctttcttcctgtatgatctggtg	W83893	71435	tgctgttaagcattagctggcttcc	D26483	114039	tctgtgtacttgcttcaacagtgtt	
28832	gctttcttcctgtatgatctggtgc	W83893	71436	gcattagctggcttccttgttcatt	D26483	114040	tgtgtacttgcttcaacagtgtttg	

TABLE 1

SEQ ID NO	sequence	DBAxnID
28833	ctttcttcctgtatgatctggtgcg	W83893
28834	ttcgggaaactcacttcacctgcaa	W83893
28835	tcgggaaactcacttcacctgcaag	W83893
28836	cgggaaactcacttcacctgcaagg	W83893
28837	cctgctctatgtctctgccgctttc	W83893
28838	gctctatgtctctgccgctttcttc	W83893
28839	ctctatgtctctgccgctttcttcc	W83893
28840	tctatgtctctgccgctttcttcct	W83893
28841	atgtctctgccgctttcttcctgta	W83893
28842	tgtctctgccgctttcttcctgtat	W83893
28843	gtctctgccgctttcttcctgtatg	W83893
28844	ctctgccgctttcttcctgtatgat	W83893
28845	agctttatgggacctgcgtaatctg	U35142
28846	tgaaattttccaggtccactggtct	U35142
28847	ttgatttgtcaagcgccaaaaaggc	U35142
28848	tgtcaagcgccaaaaaggcattgta	U35142
28849	gcttctggcattctttaccctctga	U35142
28850	tctggcattctttaccctctgattc	U35142
28851	ctttaccctctgattctagcacttt	U35142
28852	taccctctgattctagcactttcaa	U35142
28853	cctctgattctagcactttcaagtg	U35142
28854	ctagcactttcaagtgagctgttgc	U35142
28855	gcactttcaagtgagctgttgcgta	U35142
28856	ttgcgtactgtatcatattgtagct	U35142
28857	ccaggtccactggtctccacataat	U35142
28858	ggtccactggtctccacataatgaa	U35142
28859	gtctccacataatgaaactattctg	U35142
28860	tattctggcctcaagtggtactgat	U35142
28861	tgatcgccgcctgaatgtgtgggat	U35142
28862	tccagagctcctgtttattcatgga	U35142
28863	tgaaccttgggtcatttgctctgtg	U35142
28864	gtcagatgtcacggcatcggaactg	U35142
28865	atgtggtgaccctgttagctgaggg	W84006
28866	ccctgttagctgagggtcttcgtga	W84006
28867	tccgaatgctggctactcaccactt	W84006
28868	tgctggctactcaccacttggcgct	W84006
28869	ctactcaccacttggcgctacatga	W84006
28870	accacttggcgctacatgaagacaa	W84006
28871	acttggcgctacatgaagacaagcc	W84006
28872	aagacaagcctgattttgttggcat	W84006
28873	attttgttggcatcatctgtactcg	W84006
28874	tggattttgccagacgcctgtgtga	W84006
28875	attttgccagacgcctgtgtgagcg	W84006
28876	agtatggcaatgcccctcgagtccg	W84006
28877	agagccgggaacacatccaggatga	W84006
28878	ctcgagtccgcatcagcggacatgt	W84006
28879	gccgggaacacatccaggatgaaaa	W84006
28880	aacacatccaggatgaaaagctagt	W84006
28881	tccggtacttcttggatgggacact	W84006
28882	ggtacttcttggatgggacactgac	W84006
28883	ggacactgacgtcaagacttgggat	W84006
28884	cgtcaagacttgggatccgaatgct	W84006
28885	ggatccgaatgctggctactcacca	W84006
28886	tgaagatccccgacttgactgacgt	U14418
28887	acttgactgacgtgaactccataga	U14418
28888	ttatcacaccatgtttacttcaaca	U14418
28889	tttcctgtcaactgtggtccaaggt	U14418
28890	ctctgtaagagttccaccaattgct	U14418
28891	actgttggcagtctttctcagttac	U14418
28892	ggcagtctttctcagttaccctgga	U14418
28893	tacagtggaccttgctatctacctg	U14418
28894	ggaccttgctatctacctgcactgt	U14418
28895	tgctatctacctgcactgtgctctg	U14418
28896	gcactgtgctctgggtaaactgtaa	U14418
28897	actgtaaccatctcatgatgccaaa	U14418
28898	ctgacgtgaactccatagacaagtg	U14418
28899	ccatagacaagtggtcccgaatgtt	U14418
28900	tcgtttattggctttactatgtaca	U14418

SEQ ID NO	sequence	DBAxnID
71437	atgagcatttcagctctacacacag	AA068528
71438	gagcatttcagctctacacacagac	AA068528
71439	tacttcctcgaatctcactgtacac	AA068528
71440	ctcgaatctcactgtacaccagaga	AA068528
71441	cgaatctcactgtacaccagagaat	AA068528
71442	tctcactgtacaccagagaattcat	AA068528
71443	cctacaagtgcaacctttgtgacaa	AA068528
71444	tacaagtgcaacctttgtgacaaat	AA068528
71445	agtgcaacctttgtgacaaatcttt	AA068528
71446	gacaaatcttttttcccagagcacaa	AA068528
71447	tctttttcccagagcacaactctta	AA068528
71448	tcccagagcacaactcttaaaacac	AA068528
71449	gcatttcagctctacacacagactg	AA068528
71450	atttcagctctacacacagactgat	AA068528
71451	cagctctacacacagactgatgcaa	AA068528
71452	tacacacagactgatgcaacaaata	AA068528
71453	aatgcttcagtacttcctcgaatct	AA068528
71454	tgcttcagtacttcctcgaatctca	AA068528
71455	tcagtacttcctcgaatctcactgt	AA068528
71456	agtacttcctcgaatctcactgtac	AA068528
71457	cattcttaaagcccaagtcttcaga	Z48238
71458	ttcttaaagcccaagtcttcagaag	Z48238
71459	gctcttctgcaacgtgctccttgct	Z48238
71460	tcttctgcaacgtgctccttgcttg	Z48238
71461	aacgtgctccttgcttgagggaatg	Z48238
71462	cgtgctccttgcttgagggaatgca	Z48238
71463	tgctccttgcttgagggaatgcaat	Z48238
71464	ataggtcctgatgacttctgtaagc	Z48238
71465	aggtcctgatgacttctgtaagccc	Z48238
71466	gtcctgatgacttctgtaagccccc	Z48238
71467	cccatctggcagacaaggcctttaa	Z48238
71468	catctggcagacaaggcctttaaaa	Z48238
71469	taaagcccaagtcttcagaagaaag	Z48238
71470	gattcaaaagccctgggactgggat	Z48238
71471	caagtccccctgaagctcttctgca	Z48238
71472	agtccccctgaagctcttctgcaac	Z48238
71473	tccccctgaagctcttctgcaacgt	Z48238
71474	cccctgaagctcttctgcaacgtgc	Z48238
71475	tgaagctcttctgcaacgtgctcct	Z48238
71476	aagctcttctgcaacgtgctccttg	Z48238
71477	tggcctggcatgtggtggctcacac	X98369
71478	ctcacactgggggccagggtacaca	X98369
71479	ctcttccactccatataatacttcc	X98369
71480	ttccactccatataatacttccctt	X98369
71481	tccatataatacttcccttgctgga	X98369
71482	atataatacttcccttgctggatcc	X98369
71483	tgctggatcccccatgccagtaacc	X98369
71484	catgccagtaacccaccctttaactg	X98369
71485	ctacagatctccaaggaaccagaat	X98369
71486	cagatctccaaggaaccagaatgca	X98369
71487	gaatgcacactaaacacaattttgt	X98369
71488	tgcacactaaacacaattttgtaca	X98369
71489	caactattcgacagcctacctgcct	X98369
71490	ctattcgacagcctacctgcctggc	X98369
71491	gacagcctacctgcctggcagttac	X98369
71492	agcctacctgcctggcagttacacc	X98369
71493	ctacctgcctggcagttacacctct	X98369
71494	tggcagttacacctcttcccactgc	X98369
71495	caccttccctcagagtgatcccagg	X98369
71496	cttccctcagagtgatcccaggctc	X98369
71497	ttcaatcccaaaaaggacattcatt	AA068582
71498	gacattcattttatgccgtgctcag	AA068582
71499	ttaccatttattccatatctggata	AA068582
71500	ccatttattccatatctggataatt	AA068582
71501	tttattccatatctggataatttgc	AA068582
71502	attccatatctggataatttgccaa	AA068582
71503	gataatttgccaaacttcaatagat	AA068582
71504	ttgccaaacttcaatagatcagttg	AA068582

SEQ ID NO	sequence	DBAxnID
114041	gtgtacttgcttcaacagtgtttga	
114042	tgtacttgcttcaacagtgtttgaa	
114043	gcgcggagcgtctcctcgagtttca	
114044	cgcggagcgtctcctcgagtttcag	
114045	gcggagcgtctcctcgagtttcaga	
114046	ggagcgtctcctcgagtttcagaac	
114047	ttggaggtcccgtggatctgtgtac	
114048	ggaggtcccgtggatctgtgtactt	
114049	gaggtcccgtggatctgtgtacttg	
114050	aggtcccgtggatctgtgtacttgc	
114051	gtcccgtggatctgtgtacttgctt	
114052	cgtggatctgtgtacttgcttcaac	
114053	gtggatctgtgtacttgcttcaaca	
114054	tggatctgtgtacttgcttcaacag	
114055	atcctaatcttgactgagtgcttat	M61215
114056	ctaatcttgactgagtgcttatttt	M61215
114057	tagtctccaacatatttcatcatat	M61215
114058	tctccaacatatttcatcatatcaa	M61215
114059	tatttcatcatatcaacctcctttc	M61215
114060	cccctcataactaattcttgcctga	M61215
114061	actaattcttgcctgaatttgtaat	M61215
114062	tcttgcctgaatttgtaatgaaatg	M61215
114063	agcagaatctgctcttctatatttg	M61215
114064	agaatctgctcttctatatttggat	M61215
114065	taatcactttctctaaaactttgct	M61215
114066	tcactttctctaaaactttgctctt	M61215
114067	gacctgtgtctgatagccttgaatt	M61215
114068	tttcctgcatatatgtgtgtataca	M61215
114069	tgtgtatacacacacacatatatac	M61215
114070	tatgcacatacacatacatgcatgc	M61215
114071	gcacatacacatacatgcatgcata	M61215
114072	catacatgcatgcatatatagacat	M61215
114073	catacatatacacatacatatatgc	M61215
114074	tgatagtctccaacatatttcatca	M61215
114075	tatggacctcactcttctgtgggtt	AA038318
114076	tcttctgtgggttcttctgccactg	AA038318
114077	cagcagtaccaggactacggtgatg	AA038318
114078	cagtaccaggactacggtgatgatg	AA038318
114079	taccaggactacggtgatgatggat	AA038318
114080	aatcttaaccgccaaggcttcagct	AA038318
114081	aaccgccaaggcttcagctaccagt	AA038318
114082	caaggcttcagctaccagtgtcccc	AA038318
114083	ggcttcagctaccagtgtccccacg	AA038318
114084	ttcagctaccagtgtccccacgtgc	AA038318
114085	taccagtgtccccacgtgcaagtgg	AA038318
114086	tggaactatgcctgcatgcctacac	AA038318
114087	ggttcttctgccactggtgaccaca	AA038318
114088	tcttctgccactggtgaccacagcc	AA038318
114089	tctgccactggtgaccacagcctgg	AA038318
114090	ggtgaccacagcctggggcagtatg	AA038318
114091	gaccacagcctggggcagtatggtg	AA038318
114092	gggtacccataccagcagtaccagg	AA038318
114093	tacccataccagcagtaccaggact	AA038318
114094	ccataccagcagtaccaggactacg	AA038318
114095	gaccttcacaaagagctcactgtca	U76762
114096	cacaaagagctcactgtcatcaaga	U76762
114097	tattagctaaccacagcaaccctgc	U76762
114098	acagcaaccctgccatttgataccg	U76762
114099	accctgccatttgataccgctgtaa	U76762
114100	ccatttgataccgctgtaaagagaa	U76762
114101	gcctgcctttaatacctaggaccat	U76762
114102	ttggtgatctccaaggttttctact	U76762
114103	tctagacacgcctgtgggctgctgt	U76762
114104	ctataaactgccttggtagcgcatg	U76762
114105	actgccttggtagcgcatgcttgca	U76762
114106	ttggtagcgcatgcttgcaggacac	U76762
114107	gagctcactgtcatcaagaagatga	U76762
114108	atgccacctgtaggactctgtcctc	U76762

TABLE 1

SEQ ID NO	sequence	DBAxnID
28901	tttactatgtacactaaggtcagtc	U14418
28902	taaccccacagattcccaacagcgg	U14418
28903	cacagattcccaacagcggtaactg	U14418
28904	acagcggtaactgctgtggtttttg	U14418
28905	agagattcagccttccagttggttt	U14418
28906	tgggctgcctaggcatagttttggc	U14419
28907	gcatagttttggccgcaacgctctg	U14419
28908	cagttgtacagcctgatgtaggact	U14419
28909	aacacatcaatccaggacaaaagtg	U14419
28910	gcctatcctgtggtccatttcatac	U14419
28911	cctgtggtccatttcataccatttg	U14419
28912	gtccatttcataccatttgggttgc	U14419
28913	ctcgcggttttccagttacaatgca	U14419
28914	gttttccagttacaatgcaagtgat	U14419
28915	tttctacacatgctggcaagatcaa	U14419
28916	cacatgctggcaagatcaagtgtga	U14419
28917	gttttagtacacagcctacttagag	U14419
28918	ccgcaacgctctggagcgacatgtg	U14419
28919	cgctctggagcgacatgtggcacaa	U14419
28920	aagtcgcctgaggagacgtgcctct	U14419
28921	caacatcgtctattggctttattat	U14419
28922	cgtctattggctttattatgtgaac	U14419
28923	ctaaactacagccttccgtgagaag	U14419
28924	tacagccttccgtgagaagcaagga	U14419
28925	ttcctcttcaaacagttgtacagcc	U14419
28926	accatcaccgcataccatgagcagc	W84260
28927	ccatcaccgcataccatgagcagcg	W84260
28928	cagcgaggccagagacccagcagac	W84260
28929	cgaggccagagacccagcagacgcc	W84260
28930	gcctgcagactcagcgacgccgaca	W84260
28931	gcagactcagcgacgccgacaccaa	W84260
28932	agactcagcgacgccgacaccaagc	W84260
28933	ctactcttcggcggcgccactgcgg	W84260
28934	tactcttcggcggcgccactgcggg	W84260
28935	ggcgccactgcgggagactatgatg	W84260
28936	ttttgggacagtcttatggttctat	W84260
28937	acagtcttatggttctatgtaaggt	W84260
28938	tcaccgcataccatgagcagcgagg	W84260
28939	accgcataccatgagcagcgaggcc	W84260
28940	ccgcataccatgagcagcgaggcca	W84260
28941	gcataccatgagcagcgaggccaga	W84260
28942	cataccatgagcagcgaggccagag	W84260
28943	taccatgagcagcgaggccagagac	W84260
28944	catgagcagcgaggccagagaccca	W84260
28945	atgagcagcgaggccagagacccag	W84260
28946	agatctacacgcacttcacgtcgcg	W84276
28947	gatctacacgcacttcacgtcgcgc	W84276
28948	tcgcgcacagacaccaagaacgtgc	W84276
28949	cgcgcacagacaccaagaacgtgca	W84276
28950	atgccgtcactgacgtgcatcatca	W84276
28951	gccgtcactgacgtgcatcatcaag	W84276
28952	ccgtcactgacgtgcatcatcaaga	W84276
28953	cgtcactgacgtgcatcatcaagaa	W84276
28954	tcactgacgtgcatcatcaagaaca	W84276
28955	cactgacgtgcatcatcaagaacaa	W84276
28956	actgacgtgcatcatcaagaacaac	W84276
28957	acgtgcatcatcaagaacaacctga	W84276
28958	tacacgcacttcacgtcgcgcacag	W84276
28959	acgcacttcacgtcgcgcacagaca	W84276
28960	acttcacgtcgcgcacagacaccaa	W84276
28961	cttcacgtcgcgcacagacaccaag	W84276
28962	tcacgtcgcgcacagacaccaagaa	W84276
28963	cacgtcgcgcacagacaccaagaac	W84276
28964	acgtcgcgcacagacaccaagaacg	W84276
28965	gtcgcgcacagacaccaagaacgtg	W84276
28966	tgattgcatgttgtcttctggtaat	W85659
28967	gattgcatgttgtcttctggtaatg	W85659
28968	cttctatgctactgctgttatgcct	W85659
71505	ccaaacttcaatagatcagttgatg	AA068582
71506	ccaatcaggctgccaattgtcgata	AA068582
71507	atcaggctgccaattgtcgataagt	AA068582
71508	actgtggtcctgggaaagctggaat	AA068582
71509	attcattttatgccgtgctcaggac	AA068582
71510	cattttatgccgtgctcaggactga	AA068582
71511	tcagatttctgtccttggtacattg	AA068582
71512	gatttctgtccttggtacattggct	AA068582
71513	tgtccttggtacattggcttaccat	AA068582
71514	tggtacattggcttaccatttattc	AA068582
71515	attggcttaccatttattccatatc	AA068582
71516	ggcttaccatttattccatatctgg	AA068582
71517	ctcaccatgttcctcagagtatcta	U03283
71518	atgttcctcagagtatctacttcag	U03283
71519	cacactcttatgcattcccaccagg	U03283
71520	cttatgcattcccaccagggctgta	U03283
71521	cattcccaccagggctgtactacat	U03283
71522	tagtatgcttttcgctgtgacacaa	U03283
71523	aggaataactccccatttagctgct	U03283
71524	ctgatacagtgcacacagatcctcc	U03283
71525	cagtgcacacagatcctccgtacac	U03283
71526	acacagatcctccgtacacagaatt	U03283
71527	acatgtagcttctacctttgatata	U03283
71528	tcattatctctcatgaaacattgtt	U03283
71529	gtatctacttcagatcagtgcggca	U03283
71530	cattaaatgcctcatctgtacagta	U03283
71531	agatgcctcaggtgtgtttgatgga	U03283
71532	cacaagaattcatgccccagaactt	U03283
71533	tgccccagaacttagccttgacctg	U03283
71534	agaacttagccttgacctgtgaaat	U03283
71535	tagccttgacctgtgaaatattagc	U03283
71536	tattagcacactcttatgcattccc	U03283
71537	gttacactctaaagtgtcaaacgca	X95351
71538	agtgtcaaacgcagtctgattttgg	X95351
71539	catcttcaagaccaatgtatttttg	X95351
71540	tactttgtggctgaatccaaggcaa	X95351
71541	aaggcaactgttctgtcattatcaa	X95351
71542	actgttctgtcattatcaattactc	X95351
71543	ctgtcattatcaattactctctgtt	X95351
71544	attactctctgttttaatcatgggc	X95351
71545	atattcacttccatcaggggatgcc	X95351
71546	ggatgccagctcttcactgtgactc	X95351
71547	cagctcttcactgtgactcattttg	X95351
71548	ttcactgtgactcattttgatgtac	X95351
71549	gtgatgcctgggtttacaagagatt	X95351
71550	aacctcgaatggcttcctgactgtt	X95351
71551	aagatatcttgtctggctgcaagat	X95351
71552	cgatgacagtgtccgtctgcccgga	X95351
71553	ccgtctgcccggatgaatgtgggtg	X95351
71554	ttgcacacaggaagactgtgagatt	X95351
71555	tggttccatttgggggccattggat	X95351
71556	catttgggggccattggatctatgg	X95351
71557	aatagccatcttcaagaccaatgta	X95351
71558	cttatctattgcactatcccaacct	AA068606
71559	atctattgcactatcccaacctacc	AA068606
71560	aacttctagttctgcaaaacagtca	AA068606
71561	tgcaaaacagtcacctcagtagagc	AA068606
71562	acagtcacctcagtagagcctctga	AA068606
71563	gtcacctcagtagagcctctgaatg	AA068606
71564	tgtgcaaactcatgcaggtcggact	AA068606
71565	aactcatgcaggtcggactatagcc	AA068606
71566	aatgtcagcagtggttcagaggtca	AA068606
71567	gaatgctgccagacttacctatgga	AA068606
71568	tgccagacttacctatggaacgaga	AA068606
71569	cagacttacctatggaacgagaggc	AA068606
71570	ccaacctaccaacttcaatatcaca	AA068606
71571	caacttcaatatcacatgttcacta	AA068606
71572	cttcaatatcacatgttcactaaca	AA068606
114109	cctgtaggactctgtcctcagtcac	U76762
114110	ctttataccaccttactgcaaccat	U76762
114111	accaccttactgcaaccatctttga	U76762
114112	ttactgcaaccatctttgaaggtta	U76762
114113	tagtccatcccagagccgtattagc	U76762
114114	atcccagagccgtattagctaacca	U76762
114115	aagtgcccagcaaattagaaacact	U67610
114116	gacacaaacgccatgagaaggcctt	U67610
114117	ttcacagtgtgatgctcagacccaa	U67610
114118	gtgtgatgctcagacccaattctaa	U67610
114119	tgctcagacccaattctaactccaa	U67610
114120	actccaactccaggggtactgcata	U67610
114121	actccaggggtactgcatacacatg	U67610
114122	tgttcatttgtttgacagggatcta	U67610
114123	atccttatagcaacactgtcatatc	U67610
114124	atagcaacactgtcatatcttagca	U67610
114125	acactgtcatatcttagcacagaag	U67610
114126	gtcagatgacactcttgagagttca	U67610
114127	tgagacttatcttctcgttgcttct	U67610
114128	tctcgttgcttcttatatagcttga	U67610
114129	agattcacaatcagccacagaggat	U67610
114130	ctacttagttatctaacatgctaca	U67610
114131	agttatctaacatgctacattcatt	U67610
114132	attcattcatgaggcctttcctctt	U67610
114133	ggcctttcctctttgtcttccactg	U67610
114134	tccactgtgctttaagaatgggtat	U67610
114135	gtcaaatacttcacctccacttgca	W13963
114136	ttcacctccacttgcatattccatg	W13963
114137	tacttctctgaagagcttttgtaga	W13963
114138	ttctctgaagagcttttgtagactt	W13963
114139	tattgcaacctctcggcctgtgagg	W13963
114140	gtgtctcgccaatttcacttttgca	W13963
114141	tctcgccaatttcacttttgcaaag	W13963
114142	tgcaaagttccccttgccgattgtt	W13963
114143	cttgccgattgttttcaacagtctg	W13963
114144	tttcaacagtctgtagtttccgatg	W13963
114145	caacagtctgtagtttccgatgtga	W13963
114146	cagtctgtagtttccgatgtgaggc	W13963
114147	acctccacttgcatattccatgatt	W13963
114148	ttcaatgacttcgaacaacttcact	W13963
114149	aatgacttcgaacaacttcactatg	W13963
114150	ttcgaacaacttcactatgtttggg	W13963
114151	gaacaacttcactatgtttgggtga	W13963
114152	caacttcactatgtttgggtgattt	W13963
114153	cttcattattcttacttctctgaag	W13963
114154	cattattcttacttctctgaagagc	W13963
114155	caccgttgcgtccctatttgctctc	X14849
114156	ctatttgctctcgctacttaggtct	X14849
114157	ctgtgcgcagcactcaccgaactca	X14849
114158	tgtgcgcagcactcaccgaactcac	X14849
114159	cgaccacagggacgctgctgcccag	X14849
114160	gaccacagggacgctgctgcccagg	X14849
114161	tgctgcccagggtcctgctggccct	X14849
114162	acccaacggcacgcggcacgcagaa	X14849
114163	ccaacggcacgcggcacgcagaatt	X14849
114164	caacggcacgcggcacgcagaattg	X14849
114165	acggcacgcggcacgcagaattggg	X14849
114166	gcacgcggcacgcagaattggggca	X14849
114167	atttgctctcgctacttaggtctgt	X14849
114168	tttgctctcgctacttaggtctgtg	X14849
114169	tgctctcgctacttaggtctgtgcg	X14849
114170	gctacttaggtctgtgcgcagcact	X14849
114171	tacttaggtctgtgcgcagcactca	X14849
114172	acttaggtctgtgcgcagcactcac	X14849
114173	ttaggtctgtgcgcagcactcaccg	X14849
114174	taggtctgtgcgcagcactcaccga	X14849
114175	agcagcaagagccagacgtgtcctg	W13977
114176	ccagacgtgtcctgctcgtaggcct	W13977

TABLE 1

SEQ ID NO	sequence	DBAxnID
28969	ttctatgctactgctgttatgcctg	W85659
28970	tctatgctactgctgttatgcctga	W85659
28971	ctatgctactgctgttatgcctgat	W85659
28972	agatatctgcctatgtgtatacaat	W85659
28973	gatatctgcctatgtgtatacaatg	W85659
28974	atatctgcctatgtgtatacaatgg	W85659
28975	tatctgcctatgtgtatacaatgga	W85659
28976	atctgcctatgtgtatacaatggaa	W85659
28977	tctgcctatgtgtatacaatggaaa	W85659
28978	attgcatgttgtcttctggtaatgc	W85659
28979	ttgcatgttgtcttctggtaatgct	W85659
28980	tgcatgttgtcttctggtaatgcta	W85659
28981	gcatgttgtcttctggtaatgctaa	W85659
28982	atgttgtcttctggtaatgctaata	W85659
28983	tgttgtcttctggtaatgctaatat	W85659
28984	gttgtcttctggtaatgctaatatt	W85659
28985	ttgtcttctggtaatgctaatattg	W85659
28986	cctgatgggctgctttgtctttgta	U14420
28987	ctttgtattcctggcacttctggag	U14420
28988	atcctttgacaactcaggaatccag	U14420
28989	tgacaactcaggaatccagtatagg	U14420
28990	agacagaagcatcccgcacaagaag	U14420
28991	aagcatcccgcacaagaagacccac	U14420
28992	gtcttcacagctcaaaatcaaaatc	U14420
28993	ccctgatctaaccgatgtgaatgcc	U14420
28994	tctaaccgatgtgaatgccatagac	U14420
28995	catagacagatggtcccgcatcgtg	U14420
28996	ttcatttaacactgagtgaaatatt	U14420
28997	cctgcctgtcaagtttttataccag	U14420
28998	attcctggcacttctggagtatgcc	U14420
28999	ggcacttctggagtatgcctttgtc	U14420
29000	gaatatcctattagcaccgatggat	U14420
29001	cctattagcaccgatggatgttcac	U14420
29002	agcaccgatggatgttcacaatgaa	U14420
29003	tgcaggcagcgttggtgacaccagg	U14420
29004	gaattcagcaatatcctttgacaac	U14420
29005	agcaatatcctttgacaactcagga	U14420
29006	cgtttgcagttcaggctcgtttctt	W85111
29007	tttgcagttcaggctcgtttctttg	W85111
29008	tctgggtccatccgagaatctgttg	W85111
29009	ctgggtccatccgagaatctgttgt	W85111
29010	gggtccatccgagaatctgttgtag	W85111
29011	aagattctcaagatgttcggtactt	W85111
29012	gattctcaagatgttcggtacttct	W85111
29013	attctcaagatgttcggtacttctg	W85111
29014	aagatgttcggtacttctgaggtga	W85111
29015	atgttcggtacttctgaggtgagac	W85111
29016	gttcggtacttctgaggtgagacta	W85111
29017	ttcggtacttctgaggtgagactat	W85111
29018	ttgcagttcaggctcgtttctttgt	W85111
29019	gcagttcaggctcgtttctttgtct	W85111
29020	gttcaggctcgtttctttgtctggt	W85111
29021	caggctcgtttctttgtctggtgta	W85111
29022	atccgaggttgcgtctcggactctt	W85111
29023	ggttgcgtctcggactcttcgtata	W85111
29024	gttgcgtctcggactcttcgtatag	W85111
29025	atggatactggctctgggtccatcc	W85111
29026	aaattcagcatacaatcattgggat	W85139
29027	aattcagcatacaatcattgggatg	W85139
29028	cccagctcgtcagcaagagcttgac	W85139
29029	ccagctcgtcagcaagagcttgaca	W85139
29030	agctcgtcagcaagagcttgacatg	W85139
29031	gctcgtcagcaagagcttgacatgg	W85139
29032	ctcgtcagcaagagcttgacatggc	W85139
29033	caagagcttgacatggcggaaaaga	W85139
29034	tactcctctcctgttgtccttaagg	W85139
29035	tcctctcctgttgtccttaaggcag	W85139
29036	cctctcctgttgtccttaaggcagc	W85139
71573	tatcacatgttcactaacattgcca	AA068606
71574	atgttcactaacattgccaactata	AA068606
71575	cacatctactcgtccaacttctagt	AA068606
71576	atctactcgtccaacttctagttct	AA068606
71577	tccaacttctagttctgcaaaacag	AA068606
71578	agaattcaacaggttctaggagctt	U46187
71579	gttctaggagcttctggcagctctt	U46187
71580	aattgcatggctttctacagtacac	U46187
71581	atggctttctacagtacacatgctt	U46187
71582	catgctttctgttcttccggaagcg	U46187
71583	ttctagttcagctgcagactctgtt	U46187
71584	ttcagctgcagactctgttgtgtgt	U46187
71585	tgcagactctgttgtgtgtctcagt	U46187
71586	tttgaccatcctcattactcccctt	U46187
71587	catcctcattactccccttacaga	U46187
71588	aaagtgttccacggcactactgtgc	U46187
71589	ttccacggcactactgtgcaagtta	U46187
71590	ggagcttctggcagctcttacccat	U46187
71591	tctggcagctcttacccatgatgca	U46187
71592	agctcttacccatgatgcaactgtg	U46187
71593	aactgtgtgacttcactgcagcctt	U46187
71594	gtgacttcactgcagccttcctcag	U46187
71595	tcactgcagccttcctcagaacaca	U46187
71596	gcccagcctctctgctcagggtcgg	U46187
71597	cctctctgctcagggtcggcgttgt	U46187
71598	ggatccatgagaccggggaatcaag	AA108347
71599	gtatttccacttcatagggcggtca	AA108347
71600	agtgatcagcagcccagacccttcc	AA108347
71601	gatcagcagcccagacccttccaga	AA108347
71602	cccagacccttccagaggagaggtg	AA108347
71603	agacccttccagaggagaggtggtg	AA108347
71604	attcctgtcccatgaccgagaccag	AA108347
71605	tgaccgagaccagctcactaaggtg	AA108347
71606	agaccagctcactaaggtgcttcag	AA108347
71607	ccagctcactaaggtgcttcaggag	AA108347
71608	taaggtgcttcaggagcacgtgaag	AA108347
71609	gcttcaggagcacgtgaagtcagtg	AA108347
71610	ccacttcatagggcggtcagacgat	AA108347
71611	gtcagtgacagcaccctacaagtac	AA108347
71612	cttcatagggcggtcagacgatatc	AA108347
71613	tatcattaattccagtgggtaccgg	AA108347
71614	accttccgaggtggaaaatgcactg	AA108347
71615	actgatggagcatcctgccgtaagc	AA108347
71616	gatggagcatcctgccgtaagcgaa	AA108347
71617	gcatcctgccgtaagcgaaacagca	AA108347
71618	tcctgccgtaagcgaaacagcagtg	AA108347
71619	aagccttcagccagaagtccagtct	U46186
71620	agaagtccagtctccaagtccatca	U46186
71621	atatttgctgtaggggctatagtca	U46186
71622	agagatcacatcttgtcttccacca	U46186
71623	cacatcttgtcttccaccagagaat	U46186
71624	agagaatccacactgcatggaatct	U46186
71625	tccacactgcatggaatctttagtt	U46186
71626	gtgggctcttggctgatgattgtta	U46186
71627	atccccaacacgcagagtcttcagg	U46186
71628	aacacgcagagtcttcaggagactt	U46186
71629	ttattctcctactgtactcattatg	U46186
71630	tcctactgtactcattatgcaaagg	U46186
71631	cgtgtcagcagtgtgggaaaggttt	U46186
71632	aaggtttcagtcaggcctcatattt	U46186
71633	tcagtcaggcctcatatttccatat	U46186
71634	aggcctcatatttccatatgcacca	U46186
71635	catatttccatatgcaccagagggt	U46186
71636	tgcaccagagggtccacactatata	U46186
71637	agagggtccacactatatagagacc	U46186
71638	agagaccttaaatcggccatatttg	U46186
71639	cgactgacagcgtggagtcacgcca	AA068664
71640	actgacagcgtggagtcacgccatg	AA068664
114177	tggctctccaagaccctactagagg	W13977
114178	ggctctccaagaccctactagaggt	W13977
114179	gctctccaagaccctactagaggtg	W13977
114180	ctctccaagaccctactagaggtgt	W13977
114181	tctccaagaccctactagaggtgta	W13977
114182	ctccaagaccctactagaggtgtag	W13977
114183	tccaagaccctactagaggtgtagt	W13977
114184	ttgttagtatacgctccacagcaca	W13977
114185	tgttagtatacgctccacagcacat	W13977
114186	acgtgtcctgctcgtaggcctccca	W13977
114187	tgtcctgctcgtaggcctcccagga	W13977
114188	gtcctgctcgtaggcctcccaggaa	W13977
114189	tcctgctcgtaggcctcccaggaag	W13977
114190	accacccttgctgactgagagtggc	W13977
114191	gagtggctctccaagaccctactag	W13977
114192	agtggctctccaagaccctactaga	W13977
114193	gtggctctccaagaccctactagag	W13977
114194	caaggaccccaagcggctctactgc	M30644
114195	ggaccccaagcggctctactgcaag	M30644
114196	gtgtgccaaccggtaccttgctatg	M30644
114197	gtaccttgctatgaaggaagatgga	M30644
114198	agatggacggctgctggcttctaag	M30644
114199	gctgctggcttctaagtgtgttaca	M30644
114200	tttcttctttgaacgactggaatct	M30644
114201	cttctttgaacgactggaatctaat	M30644
114202	atactccagttggtatgtggcactg	M30644
114203	catactgtttcttccaatgtctgct	M30644
114204	actgtttcttccaatgtctgctaag	M30644
114205	gtttcttccaatgtctgctaagagc	M30644
114206	caagcggctctactgcaagaacggc	M30644
114207	tcttccaatgtctgctaagagctga	M30644
114208	gcggctctactgcaagaacggcggc	M30644
114209	gctctactgcaagaacggcggcttc	M30644
114210	gaagagcgacccacacgtcaaacta	M30644
114211	cgtcaaactacaactccaagcagaa	M30644
114212	actacaactccaagcagaagagaga	M30644
114213	acaactccaagcagaagagagagga	M30644
114214	agttgtgtctatcaagggagtgtgt	M30644
114215	catcctggcatccacaaggaggccc	AA039109
114216	atccacaaggaggcccagaggatcg	AA039109
114217	gaccatgcactcctggaggagcaga	AA039109
114218	catgcactcctggaggagcagagca	AA039109
114219	gcactcctggaggagcagagcaagc	AA039109
114220	agcaagcagcaatccaatgagcacc	AA039109
114221	cagcaatccaatgagcaccttcgcc	AA039109
114222	tccaatgagcaccttcgccgacagt	AA039109
114223	aatgagcaccttcgccgacagttcg	AA039109
114224	cttcgccgacagttcgccagccaag	AA039109
114225	cgacagttcgccagccaagccaata	AA039109
114226	ttcgccagccaagccaatatggtgg	AA039109
114227	gcccagaggatcgctgagagcaatc	AA039109
114228	agcaatcacatcaagctgtcgggca	AA039109
114229	cacatcaagctgtcgggcagcaatc	AA039109
114230	tcgggcagcaatccctacaccactg	AA039109
114231	ggcagcaatccctacaccactgtta	AA039109
114232	ccccagatcatcaactccaagtggg	AA039109
114233	atcaactccaagtgggagaaggtgc	AA039109
114234	cagcagctggtgccaaagagggacc	AA039109
114235	cattctgatgtgactcgagattgca	D13458
114236	tgcagttgcaacttggcagcttttt	D13458
114237	caaactctgaggactaccttacagc	D13458
114238	aggactaccttacagctgacttaag	D13458
114239	tttatgttcttctctgtgagaaggt	D13458
114240	atgttcttctctgtgagaaggttta	D13458
114241	ttcttctctgtgagaaggtttattg	D13458
114242	ctcctgccaatataaccagctaata	D13458
114243	atataaccagctaatattgtcgatg	D13458
114244	ccataaacaagttcaggccaaagtg	D13458

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
29037	ctctcctgttgtccttaaggcagcc	W85139	71641	gttcctgcaggctgtcaccaatttg	AA068664	114245	tttaggattacctaacattgctggt	D13458
29038	attcagcatacaatcattgggatga	W85139	71642	ttcctgcaggctgtcaccaatttgg	AA068664	114246	attacctaacattgctggtaaatat	D13458
29039	tctcctgttgtccttaaggcagcca	W85139	71643	cctgcaggctgtcaccaatttgggc	AA068664	114247	ttctactggacaggaagatggcaga	D13458
29040	tcagcatacaatcattgggatgaga	W85139	71644	ctgcaggctgtcaccaatttgggct	AA068664	114248	aagctacgctattgtcatagcaaaa	D13458
29041	actgctccggaacccagctcgtcag	W85139	71645	caggctgtcaccaatttgggctggt	AA068664	114249	ctacgctattgtcatagcaaaagag	D13458
29042	gctccggaacccagctcgtcagcaa	W85139	71646	ggctgtcaccaatttgggctggtcc	AA068664	114250	gctttctatttggcacataccaggg	D13458
29043	ctccggaacccagctcgtcagcaag	W85139	71647	gctgtcaccaatttgggctggtccg	AA068664	114251	ttctatttggcacataccaggggtc	D13458
29044	ggaacccagctcgtcagcaagagct	W85139	71648	tgtcaccaatttgggctggtccgaa	AA068664	114252	ttggcacataccaggggtccagcta	D13458
29045	gaacccagctcgtcagcaagagctt	W85139	71649	tggtccgaaccaacgttgatccaga	AA068664	114253	cataccaggggtccagctactggaa	D13458
29046	acccagctcgtcagcaagagcttga	W85139	71650	aggaccgcagctaaggctatgccga	AA068664	114254	ggtccagctactggaagggctctac	D13458
29047	tgaatgcccactaaatttgcaaggt	Z49877	71651	tggagtcacgccatggaggaccaag	AA068664	114255	aatcattttctgtcactcatttaaa	M16238
29048	actagccaaggtccttctcaggcat	Z49877	71652	gaccgcagctaaggctatgccgatc	AA068664	114256	gataatctctaatctgtttattgaa	M16238
29049	tttgtgtgccagacagtgactccac	Z49877	71653	gagtcacgccatggaggaccaagaa	AA068664	114257	aatccagttgatttgcctgtcacga	M16238
29050	tgccagacagtgactccacagggat	Z49877	71654	agtcacgccatggaggaccaagaag	AA068664	114258	gttgatttgcctgtcacgaaacgag	M16238
29051	acagtgactccacagggatgccagg	Z49877	71655	tcacgccatggaggaccaagaagcg	AA068664	114259	gaaagccatctctctgaaaagtagt	M16238
29052	gattgcattgctccttgcagaggga	Z49877	71656	cacgccatggaggaccaagaagcgc	AA068664	114260	taacgcagcaaatgtcctcagttct	M16238
29053	attgctccttgcagagggaagccct	Z49877	71657	cctggatcccgggttcctgcaggct	AA068664	114261	agcaaatgtcctcagttctctggtg	M16238
29054	tcggttgtccttctctgggaatgct	Z49877	71658	cgggttcctgcaggctgtcaccaat	AA068664	114262	ggacagagctcgtgtgcgaggctca	M16238
29055	gtccttctctgggaatgctgccacc	Z49877	71659	gggttcctgcaggctgtcaccaatt	AA068664	114263	cattagaatcccaggatgggctgga	M16238
29056	gaatgctgccacccagagcagcaca	Z49877	71660	gaaacctgccgagatatgaccccat	AA068642	114264	aatcccaggatgggctggacctgga	M16238
29057	tgccacccagagcagcacacagtga	Z49877	71661	acctgccgagatatgaccccatcta	AA068642	114265	atgcaatttccatgaactcttgttt	M16238
29058	ccagagcagcacacagtgattgccc	Z49877	71662	aaatgctgcgcctctgtgatctaac	AA068642	114266	tttccatgaactcttgtttaagatt	M16238
29059	caaggtccttctcaggcatctatcc	Z49877	71663	ggcgatttgtcgcacacacgaagta	AA068642	114267	caattcactgatatatgctgatgtt	M16238
29060	ccttctcaggcatctatccttaact	Z49877	71664	gatttgtcgcacacacgaagtattt	AA068642	114268	actatttgccaatatgtatttttag	M16238
29061	cttaacttggtctctccacaagctg	Z49877	71665	ttgtcgcacacacgaagtatttatt	AA068642	114269	tggcttcatttgggtggctagcact	M16238
29062	tctccacaagctgcctctgatgctc	Z49877	71666	atttattgagcgtggcctcctcgtc	AA068642	114270	tgatcttaatgatcactttattgct	M16238
29063	tgcttttacctatgacccttggtca	Z49877	71667	tattgagcgtggcctcctcgtctaa	AA068642	114271	taatgatcactttattgctgaacat	M16238
29064	accacatacctcatgcggaaccgaa	Z49877	71668	tggcctcctcgtctaacaagcggca	AA068642	114272	tcactttattgctgaacatcattat	M16238
29065	tacctcatgcggaaccgaatgtctc	Z49877	71669	cctcctcgtctaacaagcggcagat	AA068642	114273	tattgctgaacatcattattcttta	M16238
29066	atgtctctccagtaaacaccccagc	Z49877	71670	ctaacaagcggcagattctctgtgg	AA068642	114274	taatttcttaggaatccagttgatt	M16238
29067	ataaggattctcgcacctggtgtcc	W85160	71671	agcggcagattctctgtgggtcgag	AA068642	114275	tcgcaatccggacctctcatcacga	AA014079
29068	aggattctcgcacctggtgtcccat	W85160	71672	gatatgaccccatctatggcatacc	AA068642	114276	caatccggacctctcatcacgagca	AA014079
29069	taactgtcgtcatcaagttttgaca	W85160	71673	agattctctgtgggtcgagagacaa	AA068642	114277	caccttaggcgatgacctgggcgtg	AA014079
29070	gacactggtatcctgtttattgtta	W85160	71674	atgaccccatctatggcataccaga	AA068642	114278	agagtgtcagcgtcctcactaatcg	AA014079
29071	gtattcacctacttagagatacatc	W85160	71675	accccatctatggcataccagagtg	AA068642	114279	gtgtcagcgtcctcactaatcgctc	AA014079
29072	gagatacatctcctggctcttttga	W85160	71676	gacattttgccctctggtgctcctg	AA068642	114280	tcagcgtcctcactaatcgctcctt	AA014079
29073	atacatctcctggctcttttgatgt	W85160	71677	attttgccctctggtgctcctggga	AA068642	114281	tcactaatcgctccttgttaccatg	AA014079
29074	catctcctggctcttttgatgtggt	W85160	71678	ttgccctctggtgctcctgggacga	AA068642	114282	gctccttgttaccatggtaactagc	AA014079
29075	ctcctggctcttttgatgtggttca	W85160	71679	tctggtgctcctgggacgaaatgct	AA068642	114283	ggtaactagcgacacgcctccacgc	AA014079
29076	gaatagctttgccactctgttgttc	W85160	71680	ggtgctcctgggacgaaatgctgcg	AA068642	114284	acgcacgcgcattagcgtctggtcg	AA014079
29077	tagctttgccactctgttgttcatc	W85160	71681	gcacagccatcttgatttacctgag	U48420	114285	cacgcgcattagcgtctggtcggcc	AA014079
29078	ctttgccactctgttgttcatctat	W85160	71682	tgatttacctgagttccaagtacca	U48420	114286	gcgcattagcgtctggtcggccgct	AA014079
29079	ctcgcacctggtgtcccatgatgct	W85160	71683	ccttccttgttggccagcaggtgac	U48420	114287	ctcatcacgagcaacctgggagtct	AA014079
29080	tgctcgtactattcggtattctgta	W85160	71684	ttgttggccagcaggtgacgctagc	U48420	114288	tagcgtctggtcggccgctgcttcc	AA014079
29081	tcgtactattcggtattctgtattc	W85160	71685	tgtttgagggacggcctcagctgac	U48420	114289	atcacgagcaacctgggagtctgag	AA014079
29082	tcggtattctgtattcctcatcaag	W85160	71686	ggcctcagctgacagcatggcgaga	U48420	114290	agcaacctgggagtctgagaagctg	AA014079
29083	gtattctgtattcctcatcaagttg	W85160	71687	gcaccatcctgagcatcctgggaca	U48420	114291	tccggacagcgcagtgaccacagtc	AA014079
29084	ttctgtattcctcatcaagttgaac	W85160	71688	aggtccatgccagcatgcagcttcg	U48420	114292	agtgaccacagtccctatcgtgacg	AA014079
29085	attcctcatcaagttgaacgacatt	W85160	71689	atgccagcatgcagcttcgaattgc	U48420	114293	cacagtccctatcgtgacggtccgg	AA014079
29086	aattaactgtcgtcatcaagttttg	W85160	71690	gcatgcagcttcgaattgctaggat	U48420	114294	aggagcgctcaccttaggcgatgac	AA014079
29087	ggtttctgtcggtgctctccctgct	W85163	71691	ctaggattccttgagtggtctgacc	U48420	114295	agcgctcaccttaggcgatgacctg	AA014079
29088	gcccgctctgttcatcgctgtgcac	W85163	71692	ttccttgagtggtctgaccagcaat	U48420	114296	agcctctgaccattctgattccagt	M70641
29089	tgatccgcaactacagtttgctgct	W85163	71693	gttccaagtaccaggtggcagacca	U48420	114297	ccattctgattccagtgacacttgt	M70641
29090	acatcagcccggtccgggtctacat	W85163	71694	agtaccaggtggcagaccactggta	U48420	114298	aactgatagcctcaaactccaaaca	M70641
29091	atcagcccggtccgggtctacatca	W85163	71695	cccaagtccacgaatacctgggctg	U48420	114299	tgatagcctcaaactccaaacacca	M70641
29092	ccggtccgggtctacatcaacgatg	W85163	71696	tccacgaatacctgggctggcatgc	U48420	114300	aacaccataggtaggacacgaagct	M70641
29093	cggtccgggtctacatcaacgatga	W85163	71697	ggcatgccgacaacatccgtggtac	U48420	114301	attgtgacctgagtgactctctgtc	M70641
29094	gtccgggtctacatcaacgatgacg	W85163	71698	atagaatggtcctggttctgcaaca	U48420	114302	gtgactctctgtcagaacaaacaaa	M70641
29095	ccgctctgttcatcgctgtgcacgt	W85163	71699	tggttctgcaacagctggaggacaa	U48420	114303	aatgtggtcaaatccctgttggtga	M70641
29096	cgctctgttcatcgctgtgcacgtg	W85163	71700	tgcaacagctggaggacaagttcct	U48420	114304	gaagtgcttgctgcttctttgatta	M70641
29097	ctctgttcatcgctgtgcacgtggt	W85163	71701	accggccgcagtgtcacttcgacat	AA068691	114305	gcttctttgattatgactggtttgg	M70641
29098	gtgccctgatccgcaactacagttt	W85163	71702	ccggccgcagtgtcacttcgacatc	AA068691	114306	gttacatgtttgcaccttctagtt	M70641
29099	tgccctgatccgcaactacagtttg	W85163	71703	tcgacatcgagatcaaccgggaacc	AA068691	114307	tgtttgcacctttctagttgaaaat	M70641
29100	gccctgatccgcaactacagtttgc	W85163	71704	tatgtttcagctcttctcagacata	AA068691	114308	ttctgattccagtgacacttgtcag	M70641
29101	ccctgatccgcaactacagtttgct	W85163	71705	tgtttcagctcttctcagacatatg	AA068691	114309	tgattccagtgacacttgtcaggag	M70641
29102	ctgatccgcaactacagtttgctgc	W85163	71706	gtttcagctcttctcagacatatgt	AA068691	114310	cagtgacacttgtcaggagtcagag	M70641
29103	gacctctgacagggatgtgcgcgat	W85103	71707	ttcagctcttctcagacatatgtcc	AA068691	114311	tgacacttgtcaggagtcagagcct	M70641
29104	cctctgacagggatgtgcgcgatca	W85103	71708	tcagctcttctcagacatatgtcca	AA068691	114312	gtcagagccttgtctgttagactgg	M70641

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
29105	tcttcagcggcgccattccatactg	W85103	71709	agctcttctcagacatatgtccaaa	AA068691	114313	gccttgtctgttagactggacagct	M70641
29106	ttcagcggcgccattccatactgtg	W85103	71710	tcttctcagacatatgtccaaaaac	AA068691	114314	agtttgcctgtaacaagccagattt	M70641
29107	cagcggcgccattccatactgtgac	W85103	71711	cttctcagacatatgtccaaaaaca	AA068691	114315	ttgcctgtaacaagccagattttta	M70641
29108	gcggcgccattccatactgtgaccg	W85103	71712	tctcagacatatgtccaaaaacatg	AA068691	114316	ccactccgcactgggaatggcagct	AA068735
29109	cgccattccatactgtgaccgcttc	W85103	71713	ggccgcagtgtcacttcgacatcga	AA068691	114317	actccgcactgggaatggcagcttg	AA068735
29110	attccatactgtgaccgcttcggtg	W85103	71714	ctcagacatatgtccaaaaacatgc	AA068691	114318	atcacagaacaactgatcgaagcca	AA068735
29111	tccatactgtgaccgcttcggtgac	W85103	71715	cgcagtgtcacttcgacatcgagat	AA068691	114319	aagatttgtgacccgggcctcacat	AA068735
29112	catactgtgaccgcttcggtgactt	W85103	71716	gcagtgtcacttcgacatcgagatc	AA068691	114320	gacccgggcctcacatcctttgagc	AA068735
29113	tactgtgaccgcttcggtgacttcc	W85103	71717	gtgtcacttcgacatcgagatcaac	AA068691	114321	ccgggcctcacatcctttgagccag	AA068735
29114	ctgtgaccgcttcggtgacttccgc	W85103	71718	gtcacttcgacatcgagatcaaccg	AA068691	114322	gggcctcacatcctttgagccagaa	AA068735
29115	gtgcgcgatcatctcaacaacagct	W85103	71719	tcacttcgacatcgagatcaaccgg	AA068691	114323	ggcctcacatcctttgagccagaag	AA068735
29116	agatcgtggtgtcacctcggtaggg	W85103	71720	acttcgacatcgagatcaaccggga	AA068691	114324	cacatcctttgagccagaagccctt	AA068735
29117	ttcctgccagagcgaggctgcggcc	W85103	71721	cttcgacatcgagatcaaccgggaa	AA068691	114325	acatcctttgagccagaagcccttg	AA068735
29118	agccgtagcctcgaatgccgtcttc	W85103	71722	gtattcggtgtcagtcctgtcttac	U43187	114326	tcctttgagccagaagcccttggta	AA068735
29119	ccgtagcctcgaatgccgtcttcag	W85103	71723	agtcctgtcttaccaaagatgaatg	U43187	114327	tggtaacctcgtggaaggaatggat	AA068735
29120	gtagcctcgaatgccgtcttcagcg	W85103	71724	ccctcactggagcagagaaagtaga	U43187	114328	ctccgcactgggaatggcagcttgg	AA068735
29121	tcgaatgccgtcttcagcggcgcca	W85103	71725	acaacacaagtcagggcacctggtt	U43187	114329	ttttactttgagaatctcctgtcca	AA068735
29122	gaatgccgtcttcagcggcgccatt	W85103	71726	cctggttctgggcagctcagcagag	U43187	114330	aatggcagcttggtgcctgaaggac	AA068735
29123	acactctgttcttaaacactcgaat	U30464	71727	ggctgtctgcatctcaaatctgtca	U43187	114331	cagcttggtgcctgaaggacggagc	AA068735
29124	ctctgttcttaaacactcgaataga	U30464	71728	ctgcatctcaaatctgtcaggcctg	U43187	114332	agcttggtgcctgaaggacggagcc	AA068735
29125	aatagcaggcattgtgtggagtcaa	U30464	71729	actccatgggaaagtccttgagctg	U43187	114333	tctctgctcctcagccatgagaaaa	AA068735
29126	tcaataagacccgtatatatagcaa	U30464	71730	agtccttgagctgccacaaccgtgt	U43187	114334	ctgctcctcagccatgagaaaacaa	AA068735
29127	ataagacccgtatatatagcaagag	U30464	71731	accgtgtccaaagccaccagctgtg	U43187	114335	ctcctcagccatgagaaaacaagaa	AA068735
29128	cacctcttcctatttgtggttctca	U30464	71732	tccaaagccaccagctgtgttcctc	U43187	114336	taagatcacagaacaactgatcgaa	AA068735
29129	tttgtggttctcaaactcctccact	U30464	71733	gacctgtccacttgtcatcaacctc	U43187	114337	cttgtaacaactgcctatttctatg	M23109
29130	ggaagcctcagacagctgtcttgtc	U30464	71734	agacccagtcttgtcaatgcaattg	U43187	114338	agcagctgaactttctaggaatact	M23109
29131	ctcagacagctgtcttgtcaggctc	U30464	71735	agtcttgtcaatgcaattgtctctg	U43187	114339	cgacccatttctcatctgagacttg	M23109
29132	tgtcaggctcttgggaggcttctcc	U30464	71736	gtctctgttttacaagttggagtca	U43187	114340	tacttatctggacctttgtagtgat	M23109
29133	ttagccataactcttggaggccctt	U30464	71737	ttgccctctgagctctggagaccca	U43187	114341	tctggacctttgtagtgatgcataa	M23109
29134	gatgtgttcttggttcctgtttgaa	U30464	71738	tctgagctctggagacccatgtggg	U43187	114342	tcctacttcattactgctgactctg	M23109
29135	tgttcttaaacactcgaatagacta	U30464	71739	ctctggagacccatgtgggcttagg	U43187	114343	actgctgactctgctaacgttccac	M23109
29136	aaatgcactgtactgttagcgtctt	U30464	71740	gcttaggcttggactggatggaaga	U43187	114344	gactctgctaacgttccactacttg	M23109
29137	tgcactgtactgttagcgtcttctc	U30464	71741	tctgttccctcactggagcagagaa	U43187	114345	gctaacgttccactacttgttgcct	M23109
29138	actgtactgttagcgtcttctctac	U30464	71742	cgaaaacgatcttcggcaggatcat	AA068712	114346	gttccactacttgttgcctcttttg	M23109
29139	ctgttagcgtcttctctacctacag	U30464	71743	aacgatcttcggcaggatcatcggc	AA068712	114347	gttgcctcttttgtcttgcaagaag	M23109
29140	ttagcgtcttctctacctacagctc	U30464	71744	tcaggcaccaagacacttcctggtg	AA068712	114348	tcttttgtcttgcaagaagtatcaa	M23109
29141	tcaggttcctacttcctttggatag	U30464	71745	aggcaccaagacacttcctggtgat	AA068712	114349	ttcaacagtgcatcttcagccttct	M23109
29142	agtctatcttttggccactcctctt	U30464	71746	caagacacttcctggtgatacccag	AA068712	114350	tatcaataaacatctttccagattt	M23109
29143	tgtctgccccgcagatgctcaaggc	W84983	71747	agacacttcctggtgatacccagga	AA068712	114351	tccaacctacctaagggtcatgtct	M23109
29144	tgccccgcagatgctcaaggcacgt	W84983	71748	aaagtcttctaggacatttaatgat	AA068712	114352	ctacctaagggtcatgtctctcaca	M23109
29145	ttttgcccctgatggactggcccaa	W84983	71749	gaaatgtgctgcagatctgggccta	AA068712	114353	aagggtcatgtctctcacagcaggc	M23109
29146	gcccctgatggactggcccaaaatt	W84983	71750	aatgtgctgcagatctgggcctaaa	AA068712	114354	agcaggctcaaggctgcaagagtca	M23109
29147	ccctgatggactggcccaaaattct	W84983	71751	tgtgctgcagatctgggcctaaagc	AA068712	114355	attgcaaatggccaactgacttgcc	M23109
29148	gactggcccaaaattctcagcggga	W84983	71752	tgctgcagatctgggcctaaagcgc	AA068712	114356	caactgacttgcccatttatggttt	M23109
29149	ctggcccaaaattctcagcgggaat	W84983	71753	ctgcagatctgggcctaaagcgcgg	AA068712	114357	atgctgaccatccgacccatttctc	M23109
29150	ggcccaaaattctcagcgggaatca	W84983	71754	cgatcttcggcaggatcatcggcaa	AA068712	114358	ttacctgatacagtggcattatagc	AA109491
29151	cccaaaattctcagcgggaatcact	W84983	71755	ggacagtctgtctatcacatcacct	AA068712	114359	gtgaaactatccacgctgttaggtt	AA109491
29152	aaattctcagcgggaatcactaagg	W84983	71756	caaggaattcccggccaagatcatc	AA068712	114360	tggctttgtgcttcctgtagatctc	AA109491
29153	attctcagcgggaatcactaagggt	W84983	71757	aggaattcccggccaagatcatctt	AA068712	114361	ctttgtgcttcctgtagatctccag	AA109491
29154	tctcagcgggaatcactaagggtgt	W84983	71758	gaattcccggccaagatcatcttgg	AA068712	114362	tgtgcttcctgtagatctccaggaa	AA109491
29155	ccccgcagatgctcaaggcacgttg	W84983	71759	attcccggccaagatcatcttggag	AA068712	114363	tcctgtagatctccaggaactcctg	AA109491
29156	ccgcagatgctcaaggcacgttgcc	W84983	71760	ccggccaagatcatcttggaggaca	AA068712	114364	agatctccaggaactcctgcacatc	AA109491
29157	atgctcaaggcacgttgccgctacc	W84983	71761	tcatcttggaggacaacggttgtct	AA068712	114365	tctccaggaactcctgcacatcttc	AA109491
29158	cgttgccgctacctggccgataaag	W84983	71762	acaacggttgtcttgcttttcatga	AA068712	114366	ccaggaactcctgcacatcttcaga	AA109491
29159	ttgccgctacctggccgataaagtt	W84983	71763	ggtgaattccggcaatcctgaaagg	AA068713	114367	cctgcacatcttcagaggaccccat	AA109491
29160	gccgctacctggccgataaagtttg	W84983	71764	gaattccggcaatcctgaaaggtcg	AA068713	114368	catcttcagaggaccccatgacgac	AA109491
29161	ctacctggccgataaagtttgaatg	W84983	71765	tgcttcacatcttgcagaagctttc	AA068713	114369	tgacgactggtgccttctggtggat	AA109491
29162	gggcttttgcccctgatggactggc	W84983	71766	ttcacatcttgcagaagctttctga	AA068713	114370	tccacgctgttaggtttgtttctag	AA109491
29163	ctaagactccagagatctacctggc	W84988	71767	agctttctgagagctctaatggaat	AA068713	114371	atgtacaacatgcagaatggagtag	AA109491
29164	agactccagagatctacctggcgta	W84988	71768	tttctgagagctctaatggaatctt	AA068713	114372	gtagcgtcacttgagctctgctctg	AA109491
29165	atccccaggagtatctagcatctac	W84988	71769	tatcagatatcgcagggcatttcgg	AA068713	114373	gcgtcacttgagctctgctctgggg	AA109491
29166	atctagcatctactgcctggcggcc	W84988	71770	accacgtcagtttgggtgaagtgca	AA068713	114374	tcacttgagctctgctctggggcag	AA109491
29167	tagcatctactgcctggcggccgaa	W84988	71771	acgtcagtttgggtgaagtgcacag	AA068713	114375	gccttcacttggctttgtgcttcct	AA109491
29168	catctactgcctggcggccgaattt	W84988	71772	tgcacagtgtgtctcaggcgctgga	AA068713	114376	ttcacttggctttgtgcttcctgta	AA109491
29169	gtgatgtctgcgctatcatgagggt	W84988	71773	gtgtgtctcaggcgctggagctctc	AA068713	114377	acttggctttgtgcttcctgtagat	AA109491
29170	atgtctgcgctatcatgagggtcca	W84988	71774	gtgtctcaggcgctggagctctctt	AA068713	114378	ccagagacccctgtctgatcaaccg	AA059639
29171	ctatcatgagggtccatgccttcct	W84988	71775	cggcaatcctgaaaggtcgggactg	AA068713	114379	gtctgatcaaccggagttcgtgtaa	AA059639
29172	tccatgccttcctggaacagtgggg	W84988	71776	tgaaaggtcgggactgcttggcctt	AA068713	114380	aactcagcctagggagccacagcga	AA059639

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
29173	atgccttcctggaacagtggggtct	W84988	71777	gcaagacagcagcctttgtgcttca	AA068713	114381	acagcgactgctccgctcagaaact	AA059639
29174	gtcttattaactaccagggagatgc	W84988	71778	agacagcagcctttgtgcttcacat	AA068713	114382	actgctccgctcagaaacttcagct	AA059639
29175	ctccagagatctacctggcgtatcg	W84988	71779	cagcagcctttgtgcttcacatctt	AA068713	114383	ccgctcagaaacttcagctggaacc	AA059639
29176	tcttattaactaccagggagatgct	W84988	71780	cagcctttgtgcttcacatcttgca	AA068713	114384	ctcagaaacttcagctggaaccctt	AA059639
29177	agatctacctggcgtatcggaactt	W84988	71781	cctttgtgcttcacatcttgcagaa	AA068713	114385	ttcagctggaacccttttagagcct	AA059639
29178	tctacctggcgtatcggaacttcat	W84988	71782	ttgtgcttcacatcttgcagaagct	AA068713	114386	agctggaacccttttagagcctgct	AA059639
29179	acctggcgtatcggaacttcatgat	W84988	71783	ctgtctctcaggcacaggaatgaag	U43186	114387	tggaacccttttagagcctgctcac	AA059639
29180	tcatgattgacacttaccgactgaa	W84988	71784	gtctgtcacaggcacgccatactgg	U43186	114388	ccttttagagcctgctcacgtcggc	AA059639
29181	tgattgacacttaccgactgaatcc	W84988	71785	gccacctcatgtctcagactatact	U43186	114389	agagcctgctcacgtcggctcgggg	AA059639
29182	ttgacacttaccgactgaatcccca	W84988	71786	acctcatgtctcagactatactcgg	U43186	114390	gccacgggcaccatcctgcagtttg	AA059639
29183	accgactgaatccccaggagtatct	W84988	71787	agaggccaaacttcgaccttcagcg	U43186	114391	acgggcaccatcctgcagtttgtca	AA059639
29184	gccaaagctgctgctaaggctgccc	U08210	71788	caaacttcgaccttcagcggaggag	U43186	114392	accatcctgcagtttgtcaacggca	AA059639
29185	gctaaggctgcccagtatggccttg	U08210	71789	acttcgaccttcagcggaggagctc	U43186	114393	gtcaacggcatgaaccagcagcttg	AA059639
29186	ccgaagccctatggaggagcccttg	U08210	71790	tcgaccttcagcggaggagctcttg	U43186	114394	atgaaccagcagcttggaaactcag	AA059639
29187	aagccctatggaggagcccttggag	U08210	71791	ttcagcggaggagctcttgcggcac	U43186	114395	aaccagcagcttggaaactcagcct	AA059639
29188	cttggagccctgggataccaaggtg	U08210	71792	gctcttgcggcacatgtttgtgcat	U43186	114396	cttggaaactcagcctagggagcca	AA059639
29189	tgactcgcgacctcatcaacgttgg	U08210	71793	cttgcggcacatgtttgtgcattat	U43186	114397	ggaaactcagcctagggagccacag	AA059639
29190	ctcgcgacctcatcaacgttggtgc	U08210	71794	tgtgcattatcactagcagcggcgg	U43186	114398	tgaggctgagctggatcctgacaat	M77831
29191	gcgacctcatcaacgttggtgctac	U08210	71795	gctaactgaaaagccaccttgggct	U43186	114399	gctggatcctgacaatactgtccat	M77831
29192	acctcatcaacgttggtgctactgc	U08210	71796	agcaatggctgccatctttaagatc	U43186	114400	tctcccttggcactggccaggttat	M77831
29193	tcaacgttggtgctactgcttggtg	U08210	71797	catctttaagatcgccactcagcca	U43186	114401	gcactggccaggttatcaagggctg	M77831
29194	gtgctactgcttggtggagaatgta	U08210	71798	ctttaagatcgccactcagccaacg	U43186	114402	agttggtgatcccatccgagctggg	M77831
29195	ctactgcttggtggagaatgtaaac	U08210	71799	taagatcgccactcagccaacgaac	U43186	114403	tgatcccatccgagctggggtatgg	M77831
29196	cctgctgcagctgctaaggcagcca	U08210	71800	aacgaacccaaagctgccacctcat	U43186	114404	tcccaggtggagcaaccctggtgtt	M77831
29197	gccaaatatggtgctgctggccttg	U08210	71801	gaacccaaagctgccacctcatgtc	U43186	114405	gtggagcaaccctggtgtttgaggt	M77831
29198	gtcctaggagccaggccattcccag	U08210	71802	gctgccacctcatgtctcagactat	U43186	114406	caaccctggtgtttgaggtggagct	M77831
29199	gcagcaagacctggctttggacttt	U08210	71803	ttacatcgacctgccttattcttct	U58883	114407	ccctggtgtttgaggtggagctgct	M77831
29200	gcaagacctggctttggactttctc	U08210	71804	ttccccaagtcgcagtgccactgtg	U58883	114408	agagacgctcagaactgtagcaggc	M77831
29201	tttggactttctcccatttatccag	U08210	71805	gtttgttggcacttcgagaaggacg	U58883	114409	cccccaagagtgagtctgtatttct	M77831
29202	ggactttctcccatttatccaggtg	U08210	71806	catcattcatgaactggtctcttta	U58883	114410	ggatcctgacaatactgtccatttg	M77831
29203	ctttctcccatttatccaggtggtg	U08210	71807	ttgaaacccattgtgtatcagggat	U58883	114411	caatactgtccatttgcctgagtgc	M77831
29204	gagttccagaatccatatcagtgtg	W85061	71808	ttaactatctgctgaagacatctgt	U58883	114412	tactgtccatttgcctgagtgccct	M77831
29205	ttccagaatccatatcagtgtgcgg	W85061	71809	atctgctgaagacatctgtatttac	U58883	114413	gtcctatcaagtctagaaagggaga	M77831
29206	tgagactgctgcaggtgactacaca	W85061	71810	catgactgcttctgggagctgctct	U58883	114414	atgtcttacacatgcactacacggg	M77831
29207	gactgctgcaggtgactacacagga	W85061	71811	tgcttctgggagctgctctagcccc	U58883	114415	agtttgacagcagcctaccacagaa	M77831
29208	tgctgcaggtgactacacaggatgc	W85061	71812	ccgctgcttggggaatctgatctgg	U58883	114416	ttgacagcagcctaccacagaacca	M77831
29209	cacaggatgctgcgtcgtaaggcaa	W85061	71813	gaatctgatctggagcatgtccatg	U58883	114417	ttttctcccttggcactggccaggt	M77831
29210	aggatgctgcgtcgtaaggcaatat	W85061	71814	gatctggagcatgtccatgagcaac	U58883	114418	caatactcatgtgtgtgggcaaaaa	D86729
29211	atgctgcgtcgtaaggcaatatgac	W85061	71815	aagtcgcagtgccactgtgagccca	U58883	114419	gcaaaaactccaggactgtatttgt	D86729
29212	tggagtgcttcactactcaggataa	W85061	71816	agcatgtccatgagcaacattagcc	U58883	114420	tgtcttcaaaaaccttgatgtcgtt	D86729
29213	agtgcttcactactcaggataatca	W85061	71817	cactgtgagcccacagcaacctcaa	U58883	114421	tgtcgttaaactgccagttactatt	D86729
29214	gcttcactactcaggataatcagga	W85061	71818	acctcaagcccagcagcgaagagtc	U58883	114422	gggtcatccaagcaaggtcacaatt	D86729
29215	tcactactcaggataatcaggagaa	W85061	71819	aagagtcaccccagacaggagtcag	U58883	114423	tcatccaagcaaggtcacaatttgg	D86729
29216	aatccatatcagtgtgcgggacgaa	W85061	71820	gccctcactggatttgtgtagctac	U58883	114424	tggttgttggcacaccctatgcaat	D86729
29217	ccatatcagtgtgcgggacgaaagg	W85061	71821	tttgtgtagctaccaagcgttatat	U58883	114425	ttgttggcacaccctatgcaatatc	D86729
29218	tatcagtgtgcgggacgaaaggcta	W85061	71822	tagttatgtgccacagaacgatgat	U58883	114426	caccctatgcaatatcaaaattgaa	D86729
29219	gctaatgagcgcattgctgaagaag	W85061	71823	tgtgccacagaacgatgatgagttg	U58883	114427	tatgtatccattatcatgtgtactc	D86729
29220	aatgagcgcattgctgaagaagtaa	W85061	71824	atcttgacccaagtcagactagccc	U58884	114428	gtatccattatcatgtgtactcaat	D86729
29221	ggacattgctactgagcgatgatgt	W85061	71825	ctagcccgtgagttttgagacagca	U58884	114429	attatcatgtgtactcaataaacga	D86729
29222	cattgctactgagcgatgatgtaaa	W85061	71826	ctgtatttgcatcgtacctgagtgt	U58884	114430	actccaggactgtatttgtgactaa	D86729
29223	aattgagactgctgcaggtgactac	W85061	71827	ttgcatcgtacctgagtgtgtacat	U58884	114431	actgtagacctttttcacccatgct	D86729
29224	tccacgcggactacaagcccttcgt	W98265	71828	cacatatgtgccctcagactctgtt	U58884	114432	gtagacctttttcacccatgctgtt	D86729
29225	cggactacaagcccttcgtctgcga	W98265	71829	ctcagactctgtttagcctcctaca	U58884	114433	gacctttttcacccatgctgttgat	D86729
29226	tctacaatctgaccttccacatgca	W98265	71830	ctctgtttagcctcctacaggaagt	U58884	114434	cacccatgctgttgattgctaaatg	D86729
29227	acaatctgaccttccacatgcacac	W98265	71831	atggtgcatgcctgcaatctcagca	U58884	114435	agtctattctgaagccatcttggta	D86729
29228	acaacgacaagaagcctttcacgtg	W98265	71832	tgcaatctcagcatcacagggaggc	U58884	114436	ctattctgaagccatcttggtaaac	D86729
29229	acgacaagaagcctttcacgtgtgc	W98265	71833	gatccctgagttcaaggccatgagc	U58884	114437	tggtgccaagttccatttggaattt	D86729
29230	acaagaagcctttcacgtgtgccac	W98265	71834	cctagcctggtgttcacagttcctg	U58884	114438	tgtcagctggcagaggcagaagaag	X59398
29231	agaagcctttcacgtgtgccacttg	W98265	71835	ttcacagttcctggacagccggggt	U58884	114439	ggcaacgtcccagaacatccatcca	X59398
29232	tcacgtgtgccacttgcggcaaagg	W98265	71836	ttctctccgtgtctcctgtggaagg	U58884	114440	cctacaggccgttgcttcgctggac	X59398
29233	cgtgtgccacttgcggcaaaggttt	W98265	71837	attcaaagacgtcatgtggttcatc	U58884	114441	cgttgcttcgctggacttttctcta	X59398
29234	gtgccacttgcggcaaaggttttg	W98265	71838	agacgtcatgtggttcatctattgc	U58884	114442	tgcttcgctggacttttctctagat	X59398
29235	ccacttgcggcaaaggttttgcag	W98265	71839	gttcatctattgcgtgctataccct	U58884	114443	ttcgctggacttttctctagatgct	X59398
29236	acaagaatcacaagctcacccacag	W98265	71840	ctattgcgtgctataccctggctca	U58884	114444	cttttctctagatgctgtctgccat	X59398
29237	agaatcacaagctcacccacagcgg	W98265	71841	cgtgctataccctggctcagcccat	U58884	114445	ttctctagatgctgtctgccattac	X59398
29238	tcacccacagcggcgagaagcagta	W98265	71842	agcccatccatgtctgataaacgaa	U58884	114446	tgctgtctgccattactccaaagtg	X59398
29239	agtacaaatgcactatctgtaacaa	W98265	71843	taggctctgtatttgcatcgtacct	U58884	114447	ccattactccaaagtgacttctata	X59398
29240	ctatctgtaacaaggccttccatca	W98265	71844	ctggcacctgctgctcatgaagaag	U58885	114448	ctccaaagtgacttctataaaatca	X59398

TABLE 1

SEQ ID NO	sequence	DBAxnID
29241	tctgtaacaaggccttccatcaggt	W98265
29242	gtaacaaggccttccatcaggtcta	W98265
29243	aggccttccatcaggtctacaatct	W98265
29244	ctgctccacttctgaactccaacag	L06039
29245	cacttctgaactccaacagcgagaa	L06039
29246	cacgtccctgggaggtcgtccatgt	L06039
29247	aggtcgtccatgtcccgagaagagc	L06039
29248	gaagagcagccgattcctggattgc	L06039
29249	cagccgattcctggattgcgagagt	L06039
29250	cgagagtcctgtgcacgtatttatg	L06039
29251	agcagtaatccttcaggccaagcca	L06039
29252	aatccttcaggccaagccatccaat	L06039
29253	ctgccttgttcatgttgggtataca	L06039
29254	agagactcagaggcgctagttaatg	L06039
29255	gttaatggccagcctgacctatctt	L06039
29256	agatttctgagcctagtgtggaagc	L06039
29257	tggaagccaacagccattacggtta	L06039
29258	ccaacagccattacggttatgatga	L06039
29259	cccttgagcctcaccaagctctggg	L06039
29260	agcctcaccaagctctgggaacgag	L06039
29261	accaagctctgggaacgagagccac	L06039
29262	tcgaccctaatctcatggaaaacag	L06039
29263	gctcccttaatggaacttaagacag	L06039
29264	tttcctttgctccacgaggatggga	U12961
29265	gtagttctgccataacaacaaaatg	U12961
29266	gcaatattcgccattttcttcgggc	U12961
29267	ttcttcgggctagtcccagttagat	U12961
29268	gggctagtcccagttagatggcatc	U12961
29269	ctagtcccagttagatggcatccag	U12961
29270	cattcaagattcgttgtctataatt	U12961
29271	gttgtctataattacctctctgtgg	U12961
29272	gtctataattacctctctgtggttt	U12961
29273	tgactgacatggcgcccaggggtt	U12961
29274	ttttaaaacagatctccgtctcatt	U12961
29275	ttaaaacagatctccgtctcattct	U12961
29276	gttctgccataacaacaaaatgaat	U12961
29277	attaggagcctcagggcaaggtgca	U12961
29278	aggagcctcagggcaaggtgcagaa	U12961
29279	agcctcagggcaaggtgcagaagcg	U12961
29280	gaaatactcttctaggtcatttatg	U12961
29281	ctcttctaggtcatttatgcaatat	U12961
29282	atttatgcaatattcgccattttct	U12961
29283	tatgcaatattcgccattttcttcg	U12961
29284	tgctacttctgtatttgtaaacaat	U19271
29285	tcaccgtccctaagacaatgaaact	U19271
29286	tctcaaataaactcaaatctcaata	U19271
29287	tcaaatctcaatatccatgtgacca	U19271
29288	ctcaatatccatgtgaccacacgat	U19271
29289	atccatgtgaccacacgattagtga	U19271
29290	gtgaccacacgattagtgagtcatt	U19271
29291	tgagctgcttccgtggctgaatcct	U19271
29292	gtgcaaagcatctctcaaattaggt	U19271
29293	agcatctctcaaattaggtttgaat	U19271
29294	ttgtgatcccatgtagtcagtatga	U19271
29295	aggagtccagctattgcgagttaag	U19271
29296	tgaaactcagaactctgtgattcct	U19271
29297	ctctgtgattcctgtggaaatattt	U19271
29298	tgacacactattttgttgatgtaat	U19271
29299	gcaatctacagttttcctaaaatat	U19271
29300	ttgaggcctcttttaactatcacta	U19271
29301	ttaactatcactaggagttgtctct	U19271
29302	aggagttgtctctctcaaataaact	U19271
29303	tgtctctctcaaataaactcaaatc	U19271
29304	ggggagcccatcaccagatgaactt	U21301
29305	ggagcccatcaccagatgaactttt	U21301
29306	tttccttaccaagtagagttcatgg	U21301
29307	cttaccaagtagagttcatggccgg	U21301
29308	agagttcatggccggacagcaccag	U21301
71845	cctgctgctcatgaagaagtgcaca	U58885
71846	cacaggcagctggcaggtccttttt	U58885
71847	ttcaaccagcaggctaggctggcca	U58885
71848	cagcaggctaggctggccatagacc	U58885
71849	gccatgttccagtaatggaggcctc	U58885
71850	taatggaggcctccagcctgggctc	U58885
71851	aggcctccagcctgggctctattac	U58885
71852	tgggctctattacattcttctctac	U58885
71853	cattcttctctacagctgccccata	U58885
71854	gataggcaacactgtcctgctccag	U58885
71855	caacactgtcctgctccagcctgtg	U58885
71856	caaatgtgtacacttcccatgggac	U58885
71857	tgtacacttcccatgggaccacaga	U58885
71858	ccacagacccagctcagctctgttg	U58885
71859	acccagctcagctctgttgaagacc	U58885
71860	caagcacaaaggccttgaagagtgg	U58885
71861	tcccttgagccagctccattgctac	U58885
71862	gctccattgctacttattcatgtga	U58885
71863	gctgaccacaggcagctggcaggtc	U58885
71864	cttggtcgctttcctccttgggcag	AA068847
71865	ttggtcgctttcctccttgggcagg	AA068847
71866	cagagattcgcttatgtgggttaaa	AA068847
71867	agagattcgcttatgtgggttaaag	AA068847
71868	gagattcgcttatgtgggttaaagg	AA068847
71869	ttcgcttatgtgggttaaaggtcag	AA068847
71870	tcagcattgtcagtagcaagtgtgg	AA068847
71871	agcattgtcagtagcaagtgtggct	AA068847
71872	attgtcagtagcaagtgtggctcag	AA068847
71873	tggtcgctttcctccttgggcaggt	AA068847
71874	gtcgctttcctccttgggcaggtag	AA068847
71875	tcgctttcctccttgggcaggtagg	AA068847
71876	agtgctgcaaggctcggaatgcaga	AA068847
71877	gtgctgcaaggctcggaatgcagag	AA068847
71878	tgctgcaaggctcggaatgcagaga	AA068847
71879	ctgcaaggctcggaatgcagagatt	AA068847
71880	tgcaaggctcggaatgcagagattc	AA068847
71881	caaggtctccagttctccatttaca	U58886
71882	cagttctccatttacagaggagaaa	U58886
71883	cctttgttcactaatatctatctat	U58886
71884	ttgttcactaatatctatctatcta	U58886
71885	ctatctatcatctattatctatcta	U58886
71886	atctatctatctccctcatacttct	U58886
71887	tcatacttctgagacatggccagtt	U58886
71888	ttctgagacatggccagttttcttc	U58886
71889	tccctgctgttaagcacttggcaga	U58886
71890	ctgctgttaagcacttggcagatga	U58886
71891	gtcccatttatttctgagtgagatg	U58886
71892	ccatttatttctgagtgagatggtg	U58886
71893	ttctccatttacagaggagaaagtc	U58886
71894	ttcccttcctaaatatgtgagtcac	U58886
71895	ctcaccagcaagatgtctgctggtt	U58886
71896	ttaagcaacttggtctcttgatgcc	U58886
71897	aacttggtctcttgatgccattagc	U58886
71898	ttgtccaaagcacctttgttcacta	U58886
71899	tccaaagcacctttgttcactaata	U58886
71900	aaagcacctttgttcactaatatct	U58886
71901	cacagcctattctttggtggcccca	AA068862
71902	ctattctttggtggccccagacgag	AA068862
71903	ggagccttcagtggcagatgcggtt	AA068862
71904	cgtgccccagagtgtagtggatgat	AA068862
71905	tgaggacagcagcctgcagactgcc	AA068862
71906	ggacagcagcctgcagactgccatg	AA068862
71907	cagcagcctgcagactgccatgggg	AA068862
71908	atccctggatcttcagggcctgcac	AA068862
71909	cctggatcttcagggcctgcaccgc	AA068862
71910	ccgcgtggccaacaacgctcagcag	AA068862
71911	cgtggccaacaacgctcagcagcag	AA068862
71912	ggccaacaacgctcagcagcagtat	AA068862
114449	ccccaggcttgaggggaaagccatg	X59398
114450	taccaaaacaggcggcccctcagca	X59398
114451	ccatcgccacaggcccaggtgaaga	X59398
114452	tcgccacaggcccaggtgaagattc	X59398
114453	ctgtagaccgcagagccaagattag	X59398
114454	ttagcctcgcctctgaggaagcgcc	X59398
114455	gcctcgcctctgaggaagcgcccta	X59398
114456	aggaagcgccctacaggccgttgct	X59398
114457	cgccctacaggccgttgcttcgctg	X59398
114458	gcacgccagcaagatggcggcgcca	AA034842
114459	acgccagcaagatggcggcgccagc	AA034842
114460	ccgacgacctggtgactgacgcgcg	AA034842
114461	cgacgacctggtgactgacgcgcgg	AA034842
114462	ccgcgcgcaaggcatagagacgaca	AA034842
114463	gggcctgcgtggacttcaagtcgtg	AA034842
114464	ggcctgcgtggacttcaagtcgtgg	AA034842
114465	cctgcgtggacttcaagtcgtggat	AA034842
114466	gcgtggacttcaagtcgtggatgcg	AA034842
114467	cgtggacttcaagtcgtggatgcgg	AA034842
114468	tggacttcaagtcgtggatgcggac	AA034842
114469	acttcaagtcgtggatgcggaccca	AA034842
114470	gcgctccgagatgaccgacgacctg	AA034842
114471	gctccgagatgaccgacgacctggt	AA034842
114472	ccgagatgaccgacgacctggtgac	AA034842
114473	cgagatgaccgacgacctggtgact	AA034842
114474	agatgaccgacgacctggtgactga	AA034842
114475	gatgaccgacgacctggtgactgac	AA034842
114476	tgaccgacgacctggtgactgacgc	AA034842
114477	gaccgacgacctggtgactgacgcg	AA034842
114478	tggtggccacacttctgggttcaaa	W14100
114479	tggccacacttctgggttcaaagtg	W14100
114480	aactctcttaccgctgcgagtatga	W14100
114481	cttaccgctgcgagtatgactttgt	W14100
114482	accgctgcgagtatgactttgtcaa	W14100
114483	agttgagctcagggaccaaggtgct	W14100
114484	tgagctcagggaccaaggtgctggc	W14100
114485	tgctggccacactgtgtgggcagga	W14100
114486	ccacactgtgtgggcaggagagtac	W14100
114487	gtacagacactgagcaggcacctgg	W14100
114488	cagacactgagcaggcacctggcaa	W14100
114489	acactgagcaggcacctggcaatga	W14100
114490	ctgaacctgtattcgggcgcctggt	W14100
114491	ctgagcaggcacctggcaatgacac	W14100
114492	agtatgctgaccatcaagatcgatc	W14100
114493	atgctgaccatcaagatcgatcctg	W14100
114494	accatcaagatcgatcctggacact	W14100
114495	atcaagatcgatcctggacactgac	W14100
114496	aagatcgatcctggacactgactgc	W14100
114497	tcacccactttgacctggaactctc	W14100
114498	tggaactctcttaccgctgcgagta	W14100
114499	tacatattagcgacaacagattgga	L23971
114500	atattagcgacaacagattggattt	L23971
114501	atttcacatgtcaaaggaggttagc	L23971
114502	attggtacacagtcacaatgtaccg	L23971
114503	agcaaggcgctaacttgcttaaatg	L23971
114504	aaggcgctaacttgcttaaatgtga	L23971
114505	gcgctaacttgcttaaatgtgaatt	L23971
114506	taatttgattcacatcttttcaaat	L23971
114507	tttgattcacatcttttcaaatgga	L23971
114508	gattcacatcttttcaaatggagtt	L23971
114509	tcacatcttttcaaatggagttgga	L23971
114510	catcttttcaaatggagttggagtt	L23971
114511	taaagtttgatcttcctctgctaaa	L23971
114512	agtttgatcttcctctgctaaattg	L23971
114513	ttgatcttcctctgctaaattgatg	L23971
114514	atcttcctctgctaaattgatgttg	L23971
114515	ttcctctgctaaattgatgttgatg	L23971
114516	gttgatgcaatccttacaatgattg	L23971

TABLE 1

SEQ ID NO	sequence	DBAxnID
29309	catggccggacagcaccaggtgaaa	U21301
29310	gccggacagcaccaggtgaaagctg	U21301
29311	cggacagcaccaggtgaaagctgtc	U21301
29312	gacagcaccaggtgaaagctgtcaa	U21301
29313	atacataaccaaggtcttgagagct	U21301
29314	acataaccaaggtcttgagagctcg	U21301
29315	ataaccaaggtcttgagagctcgtg	U21301
29316	tatttgtagatgactccttggaaga	U21301
29317	accaaggtcttgagagctcgtgccg	U21301
29318	tttgtagatgactccttggaagact	U21301
29319	tgtagatgactccttggaagactct	U21301
29320	tgactccttggaagactctgaagtt	U21301
29321	actccttggaagactctgaagttct	U21301
29322	agactctgaagttctgatgtgaagc	U21301
29323	actctgaagttctgatgtgaagcca	U21301
29324	caaatacagcttcctgggatctggt	U21301
29325	acgcccacacttatgtacatcaact	W85336
29326	cccacacttatgtacatcaactcaa	W85336
29327	ctctgcccatctcggaaattactag	W85336
29328	ccatctcggaaattactagacatgt	W85336
29329	ggatatcaagcctgccaatatggaa	W85336
29330	caagcctgccaatatggaagagctc	W85336
29331	agagctcacggacgtgatgacggct	W85336
29332	gctcacggacgtgatgacggctgca	W85336
29333	cgtgatgacggctgcaggatttcac	W85336
29334	tcaccccaacagctgtaacacgtgt	W85336
29335	taacacgtgtgtgtacagcagcagt	W85336
29336	tgacatgagggcgtctgcgctctgt	W85336
29337	acacttatgtacatcaactcaattg	W85336
29338	cttatgtacatcaactcaattgcta	W85336
29339	tacatcaactcaattgctatcaata	W85336
29340	atcaactcaattgctatcaatagtg	W85336
29341	acctactgatcagcagatgatttgc	W85336
29342	cgaattaatctctgcccatctcgga	W85336
29343	attaatctctgcccatctcggaaat	W85336
29344	aatctctgcccatctcggaaattac	W85336
29345	cttttcttaaaagactgctgatata	U36799
29346	tgatatagctacatgttctggccac	U36799
29347	gattatctacgcatatctttattaa	U36799
29348	tactaggtaacttcatgctgctcta	U36799
29349	aggtaacttcatgctgctctacagc	U36799
29350	gtaacttcatgctgctctacagcac	U36799
29351	cttcatgctgctctacagcacccag	U36799
29352	atgctgctctacagcacccagctga	U36799
29353	acagcacccagctgaggacctacaa	U36799
29354	agcacccagctgaggacctacaagc	U36799
29355	cacccagctgaggacctacaagcct	U36799
29356	ccaccacagagtagtgctgtgcaga	U36799
29357	atatagctacatgttctggccacat	U36799
29358	atagctacatgttctggccacatgt	U36799
29359	acatgttctggccacatgtaaaaaa	U36799
29360	atgttctggccacatgtaaaaaact	U36799
29361	ttccatttgtggtagtggcattaca	U36799
29362	agtacatagtaccatttatacaaat	U36799
29363	catagtaccatttatacaaattaga	U36799
29364	ttatttaacagctattgattatcta	U36799
29365	aatactgctgagtccaatgtttgct	W85501
29366	atactgctgagtccaatgtttgcta	W85501
29367	tcttgcgcgcaactgatccgtattc	W85501
29368	ttgcgcgcaactgatccgtattcta	W85501
29369	tgcgcgcaactgatccgtattctaa	W85501
29370	gcgcaactgatccgtattctaatat	W85501
29371	gcaactgatccgtattctaatatga	W85501
29372	ttcttaattaccgcgactgtgactg	W85501
29373	tcttaattaccgcgactgtgactgc	W85501
29374	ttaattaccgcgactgtgactgcag	W85501
29375	taattaccgcgactgtgactgcagg	W85501
29376	atgacgctattgctgaactggtctc	W85501

SEQ ID NO	sequence	DBAxnID
71913	ctacctgcttgacctacacctgttc	AA068862
71914	cctgcttgacctacacctgttcctg	AA068862
71915	tgacctacacctgttcctgggccgc	AA068862
71916	acacctgttcctgggccgctctgtc	AA068862
71917	ggcccgtccttgtgaggagccttca	AA068862
71918	ccgtccttgtgaggagccttcagtg	AA068862
71919	ttgtgaggagccttcagtggcagat	AA068862
71920	tgaggagccttcagtggcagatgcg	AA068862
71921	actggtcaatcggcactatgccaag	U04379
71922	tgccaagatcagcgactttggcctg	U04379
71923	ctatggccagaagccctacaagaaa	U04379
71924	cctggacttcatcaagcagggtaag	U04379
71925	cttcatcaagcagggtaagaggatg	U04379
71926	ggagtgtcctcctgagatgtatgca	U04379
71927	tcctcctgagatgtatgcacttatg	U04379
71928	cgacttcctgactgtggaacaacgt	U04379
71929	gaactattactacagcccggccagc	U04379
71930	cgaggctgcatgtggctgagcccaa	U04379
71931	ctgtgttcaggagccctatcgactg	U04379
71932	tcaggagccctatcgactgtcccat	U04379
71933	tgacgacagctattacacagcccgg	U04379
71934	ccctatcgactgtcccatgtgattc	U04379
71935	cagctattacacagcccggtctgca	U04379
71936	ttacacagcccggtctgcagggaag	U04379
71937	agcccggtctgcagggaagtggcct	U04379
71938	gtggcctctgaagtggtacgcgcca	U04379
71939	agagtgcatcaactttcggaagttc	U04379
71940	catcaactttcggaagttctccagc	U04379
71941	gaagttctccagccgcagtgacgtc	U04379
71942	tcgtggtctctatgactttgagcca	U58887
71943	tctctatgactttgagccagaaaat	U58887
71944	gtatttgcttcctgttgctaaaacg	U58887
71945	gagtaaattgcgcccattcgaatgg	U58887
71946	attgcgcccattcgaatggcctggg	U58887
71947	cgaatggcctgggtagtccttgact	U58887
71948	gtagtccttgactgcagtgggaacg	U58887
71949	attattgatggcctctggtcttttc	U58887
71950	gatggcctctggtcttttcctgttt	U58887
71951	ttaagcttacctgtgaacagcccaa	U58887
71952	ttacctgtgaacagcccaataaaca	U58887
71953	gtgaacagcccaataaacatgacac	U58887
71954	catcattacattaaccaatcagata	U58887
71955	gcccaataaacatgacacactgtaa	U58887
71956	tacattaaccaatcagatagatgaa	U58887
71957	tgtgcctttacctccgtaaatgtgt	U58887
71958	tcttttggacctaacttcagaactg	U58887
71959	ggacctaacttcagaactgaaatga	U58887
71960	ctcagtgtggtgttctgtgacatcc	U58887
71961	ctctggcccacttaatcacttttgt	U58887
71962	actgatttctttgtcctaactcata	U58887
71963	ggttctgtttactcagccgaatgtg	U58888
71964	gtttactcagccgaatgtggagctg	U58888
71965	cgaggactacctcgatgacgaagac	U58888
71966	ctacctcgatgacgaagactcagac	U58888
71967	gccgctttgattgttgcctaaactt	U58888
71968	gagcctgggttgtttgccagaagag	U58888
71969	atgagcgcgacactgctgcactgtg	U58888
71970	gcgacactgctgcactgtgatctgt	U58888
71971	acactgctgcactgtgatctgtgag	U58888
71972	ctgctgcactgtgatctgtgaggag	U58888
71973	cgccttgccaataagtgaagagata	U58888
71974	atacatatatgctcaccagggtaaa	U58888
71975	tcagccgaatgtggagctgaaccag	U58888
71976	tgcagacattgtccagttgctactg	U58888
71977	agacattgtccagttgctactggca	U58888
71978	tgtccagttgctactggcaaaaggt	U58888
71979	ggacatggccaccaacgctgcctgt	U58888
71980	caacgctgcctgtgcatcgctcctg	U58888

SEQ ID NO	sequence	DBAxnID
114517	gcaatccttacaatgattgctttta	L23971
114518	gaaatttcacatgtcaaaggaggtt	L23971
114519	aagccttttgctctggagcctagtt	M18194
114520	tttgctctggagcctagttctcagc	M18194
114521	tgttctgcttcagggtttcagtact	M18194
114522	cagtactgctcagtgttgttttaaga	M18194
114523	ctgaatgctagtacccaagacctga	M18194
114524	gctagtacccaagacctgagcaagg	M18194
114525	gaaagtcacccagacacctctgctt	M18194
114526	ttcttttgccatctgacctgcagca	M18194
114527	aactcactttgtcccaacaattcag	M18194
114528	ctttgtcccaacaattcagattgcc	M18194
114529	cccaacaattcagattgcctagaaa	M18194
114530	aattcagattgcctagaaatacctt	M18194
114531	cctagttctcagcttcagcacaatt	M18194
114532	tctcagcttcagcacaatttacagc	M18194
114533	cttcagcacaatttacagcttctcc	M18194
114534	cacaatttacagcttctccaagcat	M18194
114535	tcgccccgtgggatgtttgagactt	M18194
114536	atgtttgagacttctctcctcaatg	M18194
114537	tctctcctcaatggtgacagttggt	M18194
114538	agttggtcaccctgttctgcttcag	M18194
114539	tctctatttccagctggcttttctg	W64628
114540	tccagctggcttttctgattttcag	W64628
114541	aagcaccaacagcatagcccaagcc	W64628
114542	caacagcatagcccaagccaggaga	W64628
114543	agcatagcccaagccaggagaactg	W64628
114544	catagcccaagccaggagaactgtg	W64628
114545	gcccaagccaggagaactgtgcagc	W64628
114546	agaactgtgcagcagctgagattgg	W64628
114547	aactgtgcagcagctgagattggaa	W64628
114548	agattggaagcctccatcgaaagaa	W64628
114549	attggaagcctccatcgaaagaata	W64628
114550	gaagcctccatcgaaagaataaagg	W64628
114551	gctggcttttctgattttcagaaag	W64628
114552	gtctcaaaagcatcagcagacctga	W64628
114553	tggcttttctgattttcagaaagaa	W64628
114554	aagatgtccagcaagacggcaagca	W64628
114555	gatgtccagcaagacggcaagcacc	W64628
114556	tccagcaagacggcaagcaccaaca	W64628
114557	aagacggcaagcaccaacagcatag	W64628
114558	gacggcaagcaccaacagcatagcc	W64628
114559	gcaagcaccaacagcatagcccaag	W64628
114560	aatcccacgagtcagatttctattt	X14897
114561	cccgtgctgcatggaacattccata	X14897
114562	tctccctttatcctttctcaagtct	X14897
114563	ctttctcaagtctgtctcgctcaga	X14897
114564	gctcagaccacttccaacatgtctc	X14897
114565	tccaacatgtctccactctcaatga	X14897
114566	atgtctccactctcaatgactctga	X14897
114567	ccactctcaatgactctgatctccg	X14897
114568	aattctggatttgtcggggacatgc	X14897
114569	gacatgcaattttacttctgtaagt	X14897
114570	taagtgtgactgggtggtagatttt	X14897
114571	tttacaatctatatcgttgagaatt	X14897
114572	ggaacattccatacccctgtcctggg	X14897
114573	ttacaatctatatcgttgagaattc	X14897
114574	ttccataccctgtcctgggccctag	X14897
114575	cccaaaaagcacttatatctattat	X14897
114576	gcgagcttccttgttttcaagtgtg	X14897
114577	ttccttgttttcaagtgtgctgtgg	X14897
114578	gttttcaagtgtgctgtggagttca	X14897
114579	gagttcaaaatcgcttctggggatt	X14897
114580	ttgagtcagactttctggctgtccc	X14897
114581	aagaccttcagccagaggtcaacgc	X16493
114582	accttcagccagaggtcaacgctga	X16493
114583	ggcatagtcctgaggctcaggcagg	X16493
114584	atagtcctgaggctcaggcaggctg	X16493

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
29377	ctgctgagtccaatgtttgctagta	W85501	71981	tgcctgtgcatcgctcctgaagaag	U58888	114585	gtcctgaggctcaggcaggctgctg	X16493
29378	tgacgctattgctgaactggtctcg	W85501	71982	tgcatcgctcctgaagaagaagcag	U58888	114586	ctcaggcaggctgctgcagaaaacc	X16493
29379	aatctacaggactaaacaggtatct	W85501	71983	gatcccaaacccagagtctcaatac	U58889	114587	gcagaaaacctgtcaggccagaatt	X16493
29380	taaacaggtatctggctgagatagc	W85501	71984	caaacacagagatacactggactcc	U58889	114588	aacctgtcaggccagaattcttcag	X16493
29381	acaacctcatggcttataaagctgc	W85501	71985	tctcccggcgaactcagaaatttgg	U58889	114589	ctgtcaggccagaattcttcagtga	X16493
29382	ttcgtgtaggtcttgcgcgcaactg	W85501	71986	ttgggacattccctggaaattatgt	U58889	114590	atattatactgagggctggagagat	X16493
29383	tcgtgtaggtcttgcgcgcaactga	W85501	71987	ggacattccctggaaattatgtagc	U58889	114591	taatatccagctaaagagtacatat	X16493
29384	tgtaggtcttgcgcgcaactgatcc	W85501	71988	gaaattatgtagccccagtgtgagt	U58889	114592	tatgtatctcagtatgtgtatatta	X16493
29385	gtcttgcgcgcaactgatccgtatt	W85501	71989	cagtttggagccaacgaggatcggg	U58889	114593	ttcagccagaggtcaacgctgaggc	X16493
29386	gttgataccgccattgtatgaagtg	W85473	71990	tgtgctcccagcttctgcagagacc	U58889	114594	gtaaatagacatacccagctctgtt	X16493
29387	accgccattgtatgaagtggtgatg	W85473	71991	tgcagagaccccagcaactttccct	U58889	114595	aggtcaacgctgaggctgcacctga	X16493
29388	gacaacaatgcgggctagggagaag	W85473	71992	tccaagcctccttgaagtccgattc	U58889	114596	tcaacgctgaggctgcacctgagaa	X16493
29389	ctgtacggcctccaatttagctagc	W85473	71993	ccgcaagtcacaggcattcctttga	U58889	114597	aggctgcacctgagaatccacacgg	X16493
29390	acggcctccaatttagctagcagta	W85473	71994	gtcacaggcattcctttgacagccc	U58889	114598	ccttcagcaggaagtccgcctcagc	X16493
29391	ggcctccaatttagctagcagtatg	W85473	71995	cagagatacactggactccgtaccg	U58889	114599	cagcgtccaccagagggttcacatg	X16493
29392	cctccaatttagctagcagtatgag	W85473	71996	tacagacatctgctttcatgtgggc	U58889	114600	cgtccaccagagggttcacatggca	X16493
29393	atttagctagcagtatgagaactag	W85473	71997	tacactggactccgtaccgggccat	U58889	114601	tcacatggcatagtcctgaggctca	X16493
29394	atgagaactagtcctcgaagtggta	W85473	71998	cgtaccgggccatgtaccagtacag	U58889	114602	cagcagtgctgtggtactttagcca	W14352
29395	gagaactagtcctcgaagtggtact	W85473	71999	tgtaccagtacaggccccagaatga	U58889	114603	tggtactttagccacaccagtgacg	W14352
29396	tagtcctcgaagtggtactgtttca	W85473	72000	accagtacaggccccagaatgagga	U58889	114604	acaccagtgacgtagtgtccccagc	W14352
29397	gtcctcgaagtggtactgtttcagg	W85473	72001	agtacaggccccagaatgaggacga	U58889	114605	acgtagtgtccccagcactgacact	W14352
29398	ggtgatgtccatcctgtcggttaac	W85473	72002	acgatggctggtttgtgggtgtctc	U58889	114606	tcatcacaggtgtgacaccagcccg	W14352
29399	atgtccatcctgtcggttaacgaag	W85473	72003	gtgtctcccggcgaactcagaaatt	U58889	114607	catcacaggtgtgacaccagcccgc	W14352
29400	atagtacttcgatgctcttttaaat	W85473	72004	atctttgtgcagagccccaactgta	U60530	114608	catcccctctgtgggagtagtgaac	W14352
29401	acgagcccaagcactgtgcagtttt	W85473	72005	gtgcagagccccaactgtaaccaga	U60530	114609	gagtagtgaaccccattctcgccag	W14352
29402	gcccaagcactgtgcagttttacac	W85473	72006	ttaactcagatgggatccccttcag	U60530	114610	agtagtgaaccccattctcgccagc	W14352
29403	ccaagcactgtgcagttttacacag	W85473	72007	agcatgtcgtaaacccatcaaagac	U60530	114611	cagcccgccaacgttgggtctgttg	W14352
29404	aagcactgtgcagttttacacagag	W85473	72008	tcgtaaacccatcaaagactcgctg	U60530	114612	tgggtctgttggagcccaagatgga	W14352
29405	cagttttacacagagcgaggaggac	W85473	72009	caaagactcgctgtaacagctcctc	U60530	114613	ggagctgtttcctgagtcagaacgg	W14352
29406	gaaccatacataagcaaccgaagta	U36929	72010	ctcgctgtaacagctcctccgtcgt	U60530	114614	ggtactttagccacaccagtgacgt	W14352
29407	ccatacataagcaaccgaagtaaca	U36929	72011	gctcctccgtcgtagtattcatgta	U60530	114615	tactttagccacaccagtgacgtag	W14352
29408	tgtgtaccaaacagcatttctaaga	U36929	72012	atgatcccgtggactgtttgctatc	U60530	114616	actttagccacaccagtgacgtagt	W14352
29409	gtaccaaacagcatttctaagaaga	U36929	72013	cacttgaggtctcatcagttaaagc	U60530	114617	tttagccacaccagtgacgtagtgt	W14352
29410	ttattcctatgttctccaaatgtta	U36929	72014	aggtctcatcagttaaagcaccttg	U60530	114618	ttagccacaccagtgacgtagtgtc	W14352
29411	taatgactaacattccacccatgaa	U36929	72015	ttaaagcaccttgtggaatctgttt	U60530	114619	agccacaccagtgacgtagtgtccc	W14352
29412	tgactaacattccacccatgaattc	U36929	72016	agatacggctggcaccctgcaacag	U60530	114620	gccacaccagtgacgtagtgtcccc	W14352
29413	ctaacattccacccatgaattcttc	U36929	72017	aagatcccaccaggctgtaacctga	U60530	114621	cacaccagtgacgtagtgtccccag	W14352
29414	acattccacccatgaattcttctag	U36929	72018	ccaccaggctgtaacctgaagatct	U60530	114622	caccatggctgaaaccaccaagctc	W30612
29415	ttccacccatgaattcttctagaac	U36929	72019	ttcaacaaccaagaatttgctgctc	U60530	114623	catggctgaaaccaccaagctccag	W30612
29416	cacccatgaattcttctagaacata	U36929	72020	gctcagtctgtcaaccagggttttg	U60530	114624	ctactcctcaagggtgtgcgcttca	W30612
29417	aatttaccagtgagagtatgaacgt	U36929	72021	tctgtcaaccagggttttgaagccg	U60530	114625	acactcaccacagtggacactcgaa	W30612
29418	tacataagcaaccgaagtaacatat	U36929	72022	cagctaacccgaatgtgcaccataa	U60530	114626	ctcaccacagtggacactcgaaggg	W30612
29419	aacatatactcaagtgactatgaac	U36929	72023	agtactccttgctggattgaacttc	U60530	114627	accacagtggacactcgaagggcat	W30612
29420	atatactcaagtgactatgaacgta	U36929	72024	gcatctctcccgtggattctgctcg	AA068945	114628	aaggacttcgcaccaggctcacagc	W30612
29421	gaatactttgaccgtgaggcagaca	U36929	72025	ccgtggattctgctcggagcctgcc	AA068945	114629	ctgcccatcctgctgtacgatgagg	W30612
29422	tactttgaccgtgaggcagacagga	U36929	72026	tgctgcaaactcttcaggactgcca	AA068945	114630	atcctgctgtacgatgaggatgtca	W30612
29423	tttgaccgtgaggcagacaggaaag	U36929	72027	aaactcttcaggactgccaagcaga	AA068945	114631	gtcaagacagacacactgcagatcg	W30612
29424	tgtatagtgcatctcgtgaatcata	U36929	72028	ttcaggactgccaagcagaacccac	AA068945	114632	aagacagacacactgcagatcgagg	W30612
29425	atagtgcatctcgtgaatcatacaa	U36929	72029	gccaagcagaacccactgaccgaga	AA068945	114633	acactgcagatcgaggagtttctgg	W30612
29426	caaacctgaaaggcacatccgtcag	W85565	72030	aacacgatcatcctcatcatcggcg	AA068945	114634	ggctgaaaccaccaagctccagctc	W30612
29427	gcacatccgtcagttccagatcaca	W85565	72031	atcttgtgcttcacgccctaccacg	AA068945	114635	tgaaaccaccaagctccagctcttt	W30612
29428	cgggacacctgccagttcagagagc	W85565	72032	ttgtgcttcacgccctaccacgtgg	AA068945	114636	caccaagctccagctctttgtgaag	W30612
29429	ggacacctgccagttcagagagcag	W85565	72033	ccctaccacgtggccattatgcagc	AA068945	114637	gtaggacactgcccttcctgtcagc	W30612
29430	ctgccagttcagagagcagtggaga	W85565	72034	taccacgtggccattatgcagcaca	AA068945	114638	cagcggctcttcatggtcctactcc	W30612
29431	gaagtcaaaccattgccttgggctg	W85565	72035	attatgcagcacatggtgaagactc	AA068945	114639	ttcatggtcctactcctcaagggtg	W30612
29432	agtcaaaccattgccttgggctggc	W85565	72036	tggattctgctcggagcctgcctgc	AA068945	114640	atggtcctactcctcaagggtgtgc	W30612
29433	tcaaaccattgccttgggctggcac	W85565	72037	gcctgcctgctaggctacgtgctgc	AA068945	114641	gtcctactcctcaagggtgtgcgct	W30612
29434	aaaccattgccttgggctggcacat	W85565	72038	gccatcattctcctgtgctactctc	AA068945	114642	tgcgtgcataccacttttgttcttg	D14340
29435	accattgccttgggctggcacatgc	W85565	72039	atcattctcctgtgctactctcaga	AA068945	114643	aaggctacctttgtattctctcctg	D14340
29436	cattgccttgggctggcacatgccg	W85565	72040	attctcctgtgctactctcagatct	AA068945	114644	ttcttgcaaagtatcccttctgtaa	D14340
29437	tgccttgggctggcacatgccgtcc	W85565	72041	tgctactctcagatctgctgcaaac	AA068945	114645	caatactgtgccctaaagtgtattt	D14340
29438	acatccgtcagttccagatcacagc	W85565	72042	tactctcagatctgctgcaaactct	AA068945	114646	ttattatggcacatcagcacgattt	D14340
29439	ccgtccaaagtgtctggatgactta	W85565	72043	atctgctgcaaactcttcaggactg	AA068945	114647	tggcacatcagcacgatttctgttt	D14340
29440	ccgtcagttccagatcacagcttac	W85565	72044	ctttcagatctacccgacaacagcc	U58987	114648	atcagcacgatttctgtttagataa	D14340
29441	gtcagttccagatcacagcttacca	W85565	72045	gatctacccgacaacagccttctag	U58987	114649	tagataatacaccactacattctgt	D14340
29442	cagttccagatcacagcttaccaag	W85565	72046	accacatactgacttcacagctgaa	U58987	114650	atacaccactacattctgttaataa	D14340
29443	gttccagatcacagcttaccaagga	W85565	72047	tactgacttcacagctgaagatgtt	U58987	114651	cactacattctgttaataatcagta	D14340
29444	tccagatcacagcttaccaaggacc	W85565	72048	agccatttcctagcccaatgataag	U58987	114652	aaatctcaaatttctaaatctgcaa	D14340

TABLE 1

SEQ ID NO	sequence	DBAxnID
29445	gatcacagcttaccaaggaccgcgg	W85565
29446	tcacagcttaccaaggaccgcggga	W85565
29447	ttaatggttgcggaccccgaggatg	W85566
29448	tgcggaccccgaggatgttgataac	W85566
29449	ctggagccttcaagatcctgaccca	W85566
29450	tggagccttcaagatcctgacccag	W85566
29451	ggagccttcaagatcctgacccaga	W85566
29452	ccttcaagatcctgacccagaaggg	W85566
29453	cttcaagatcctgacccagaaggga	W85566
29454	ttcaagatcctgacccagaagggaa	W85566
29455	tcaagatcctgacccagaagggaaa	W85566
29456	caagatcctgacccagaagggaaag	W85566
29457	gcggaccccgaggatgttgataact	W85566
29458	ttgataactggagccttcaagatcc	W85566
29459	tgataactggagccttcaagatcct	W85566
29460	gataactggagccttcaagatcctg	W85566
29461	ataactggagccttcaagatcctga	W85566
29462	taactggagccttcaagatcctgac	W85566
29463	aactggagccttcaagatcctgacc	W85566
29464	actggagccttcaagatcctgaccc	W85566
29465	tactgggaacttctctgctaaaaag	Y00769
29466	ctctgctaaaaagtccctgacttag	Y00769
29467	gctgcttgcaggactacagggcctg	Y00769
29468	cagcaacaattcacccacagtgcac	Y00769
29469	agtgcacctgcacatgcctttccta	Y00769
29470	cctgcacatgcctttcctacatgct	Y00769
29471	catgcctttcctacatgcttgctct	Y00769
29472	acatgcttgctctgtctcgaactag	Y00769
29473	tgtctcgaactagtcacaatcttgt	Y00769
29474	gaactagtcacaatcttgttttaag	Y00769
29475	gtgccttttcattttgacagtgcta	Y00769
29476	tttcattttgacagtgctattaact	Y00769
29477	gtccctgacttagcactattcacat	Y00769
29478	gacttagcactattcacataaaggc	Y00769
29479	tggtgctcctttatcaccttctcta	Y00769
29480	atcaccttctctaatcttttaatgt	Y00769
29481	ttaatgtgtctgtttgcaatatggg	Y00769
29482	ttcacaaatactgtaagctgtcctg	Y00769
29483	gtaagctgtcctgctgcttgcagga	Y00769
29484	tgtcctgctgcttgcaggactacag	Y00769
29485	gacattcagggtgcctctttggggc	
29486	tctttggggccaaggaaggagtgcg	
29487	ggggatctcagccatagtcgttggc	
29488	gatctcagccatagtcgttggcttc	
29489	ctcagccatagtcgttggcttcatg	
29490	agccatagtcgttggcttcatggtt	
29491	agtcgttggcttcatggttccagca	
29492	cgttggcttcatggttccagcagga	
29493	ggttccagcaggatgggtcttagcc	
29494	cttagcccacttggagagctataaa	
29495	ctataaaaagagctccgcagcatga	
29496	taaaaagagctccgcagcatgaagt	
29497	gagtgcgaccccgagaatcatgcca	
29498	gaccccgagaatcatgccaaggctc	
29499	gagaatcatgccaaggctcccccct	
29500	aatcatgccaaggctcccccctatc	
29501	tatcctgcggctgctccaagcgcct	
29502	caaagcccatgtctctgccaagcca	
29503	agcccatgtctctgccaagccagcc	
29504	tgccaagccagccaaaactcccact	
29505	ctacctaagtggtcagaggacgtgc	
29506	tgcagcggacattcagggtgcctct	
29507	agtcgttggcttcatggttccagca	
29508	gtcgttggcttcatggttccagcag	
29509	tcgttggcttcatggttccagcagg	
29510	cgttggcttcatggttccagcagga	
29511	ggacattcagggtgcctctttgggg	
29512	gacattcagggtgcctctttggggc	

SEQ ID NO	sequence	DBAxnID
72049	ttcctagcccaatgataaggagatt	U58987
72050	tgcagctcttcttagcctttaacct	U58987
72051	ttattgtctggggctgctctgccat	U58987
72052	gctgctctgccatatcgagaacatt	U58987
72053	ctgccatatcgagaacattaacttc	U58987
72054	gaacattaacttcctgacagaactg	U58987
72055	gctaaaatcccattcttaaatgatg	U58987
72056	tagcccctaagaattactcagagac	U58987
72057	ttcctaccaattccagggctgatca	U58987
72058	ccaattccagggctgatcaaaggtg	U58987
72059	gcacaacatctagcaaacggatgtc	U58987
72060	atgacgatgacccttttcatgagcag	U58987
72061	atgacccttttcatgagcagtagttg	U58987
72062	ctttcatgagcagtagttgcccaag	U58987
72063	caaagcaccacatactgacttcaca	U58987
72064	atgccaagtggcgactccggctggg	AA068956
72065	ctccggctgggcgtcattgaataca	AA068956
72066	atgctatccgtgaggctgccaccag	AA068956
72067	gctatccgtgaggctgccaccagca	AA068956
72068	tatccgtgaggctgccaccagcaac	AA068956
72069	tgaggctgccaccagcaacgttaag	AA068956
72070	aggctgccaccagcaacgttaagag	AA068956
72071	gctgccaccagcaacgttaagagat	AA068956
72072	ccaccagcaacgttaagagattagt	AA068956
72073	ggagacccgagctacctgcaccgaa	AA068956
72074	acccgagctacctgcaccgaatgac	AA068956
72075	ccgagctacctgcaccgaatgacta	AA068956
72076	aaacgctttgtgtatggcctggcta	AA068956
72077	gaatgactacactcgtctgcatcga	AA068956
72078	tgtgtatggcctggctagtggatca	AA068956
72079	tgtatggcctggctagtggatcatg	AA068956
72080	tatggcctggctagtggatcatgtc	AA068956
72081	gatcatgtctatgctatccgtgagg	AA068956
72082	tcatgtctatgctatccgtgaggct	AA068956
72083	atgtctatgctatccgtgaggctgc	AA068956
72084	ctatgctatccgtgaggctgccacc	AA068956
72085	ccttggagctcaggcacactctcgc	D38581
72086	agctcaggcacactctcgcatctaa	D38581
72087	cccaccaggaccacaaatgctgaga	D38581
72088	acagacttgccagtaggacctgacc	D38581
72089	cctgaccatgaccttagtggactga	D38581
72090	ggactgactactattcttcctggac	D38581
72091	actactattcttcctggacaacatt	D38581
72092	attcttcctggacaacatttctctg	D38581
72093	ttctctgagctgcatttccccaatc	D38581
72094	catttccccaatctgtgttctactc	D38581
72095	tctggacttcctaagctcctgattt	D38581
72096	cttgctctgagacccctctgaatcc	D38581
72097	ggcacactctcgcatctaagggaga	D38581
72098	ctctcgcatctaagggagagtgcat	D38581
72099	gtgccttttggggccatactctctt	D38581
72100	tttggggccatactctcttctatat	D38581
72101	actgtgaaagccatccgtttcagaa	D38581
72102	aattcatacagcataaaggatttct	D38581
72103	ggtgtattcccatacatgacagtgc	D38581
72104	ttcccatacatgacagtgcccacca	D38581
72105	atttcaagcattgctgttatgtctc	U29088
72106	agcattgctgttatgtctcagaaaa	U29088
72107	catatgacacctagtgagcttttaa	U29088
72108	gaacactgctggtttcattttcgta	U29088
72109	cactgctggtttcattttcgtaatc	U29088
72110	tgctggtttcattttcgtaatcacc	U29088
72111	tttcattttcgtaatcaccagtggg	U29088
72112	ggcgtctgatcatcctggttgttat	U29088
72113	gtctgatcatcctggttgttatgtg	U29088
72114	tgatcatcctggttgttatgtgata	U29088
72115	tcatcctggttgttatgtgatagat	U29088
72116	agatggctcacattgatttgtgatt	U29088

SEQ ID NO	sequence	DBAxnID
114653	caaatttctaaatctgcaagaataa	D14340
114654	tctcctgtacctcttgagccttgaa	D14340
114655	cttgagccttgaactttgacctctg	D14340
114656	ccttgaactttgacctctgcagcaa	D14340
114657	actttgacctctgcagcaataaagc	D14340
114658	acctctgcagcaataaagcagcatt	D14340
114659	cagcatttctacacatacaaggtca	D14340
114660	ttctacacatacaaggtcatttttc	D14340
114661	tacagttactctagtttgattaaat	D14340
114662	agtcgccagcaaccatgccggacca	
114663	accatgccggaccaacaggctgagg	
114664	agagttcttggtcatgatggtgcgc	
114665	accaacaggctgaggccaggtccta	
114666	gttgggcaccgtgatgaggatgcta	
114667	ttgggcaccgtgatgaggatgctag	
114668	cagcggtactatcgactttgaagag	
114669	agcggtactatcgactttgaagagt	
114670	ggtactatcgactttgaagagttct	
114671	gtactatcgactttgaagagttctt	
114672	tactatcgactttgaagagttcttg	
114673	gtcccagtcgccagcaaccatgccg	
114674	tcccagtcgccagcaaccatgccgg	
114675	ttgggcaccgtgatgaggatgctag	
114676	cagcggtactatcgactttgaagag	
114677	agcggtactatcgactttgaagagt	
114678	ggtactatcgactttgaagagttct	
114679	gtactatcgactttgaagagttctt	
114680	tactatcgactttgaagagttcttg	
114681	agagttcttggtcatgatggtgcgc	
114682	cccagtcgccagcaaccatgccgga	
114683	ccagtcgccagcaaccatgccggac	
114684	cagtcgccagcaaccatgccggacc	
114685	agtcgccagcaaccatgccggacca	
114686	accatgccggaccaacaggctgagg	
114687	accaacaggctgaggccaggtccta	
114688	agagttgggcaccgtgatgaggatg	
114689	gttgggcaccgtgatgaggatgcta	
114690	gggaataactaagccccatgtcctg	L26489
114691	aactaagccccatgtcctgaagagg	L26489
114692	ttctaacactgtgccctggtggaga	L26489
114693	taacactgtgccctggtggagaaag	L26489
114694	tctgatgtgccttttgcaccccttcc	L26489
114695	ttcccattaggacaatcagtcccct	L26489
114696	ttccttagcccttctcagtacccag	L26489
114697	ccctcacggccatccaggctggttt	L26489
114698	tcacggccatccaggctggttttgt	L26489
114699	cggccatccaggctggttttgtaag	L26489
114700	ccatccaggctggttttgtaagatg	L26489
114701	caggcctggcattgttggttctatt	L26489
114702	taagccccatgtcctgaagaggcag	L26489
114703	gccccatgtcctgaagaggcaggcc	L26489
114704	gacatcatctgtttcaaatggggtt	L26489
114705	atcatctgtttcaaatggggttgtg	L26489
114706	aagggcttatgggtcgctggctctc	L26489
114707	ccaccaagccctttctaacactgtg	L26489
114708	agccctttctaacactgtgccctgg	L26489
114709	cctttctaacactgtgccctggtgg	L26489
114710	agcgagaccagctgctgccaaacct	AA124100
114711	gagaccagctgctgccaaacctgag	AA124100
114712	ctgaaaagctggaccaccatcccga	AA124100
114713	acaaggtccatatcaccttgagcac	AA124100
114714	aggtccatatcaccttgagcaccca	AA124100
114715	tccatatcaccttgagcacccatga	AA124100
114716	tgagcacccatgaatgtgccggtct	AA124100
114717	atgaatgtgccggtctttcggaacg	AA124100
114718	acctggccagcttcatcgaacaagt	AA124100
114719	ccagcttcatcgaacaagtcgccgt	AA124100
114720	tcatcgaacaagtcgccgtgtctat	AA124100

TABLE 1

SEQ ID NO	sequence	DBAxnID
29513	cattcagggtgcctctttggggcca	
29514	ttcagggtgcctctttggggccaag	
29515	ccatagtcgttggcttcatggttcc	
29516	catagtcgttggcttcatggttcca	
29517	atagtcgttggcttcatggttccag	
29518	tagtcgttggcttcatggttccagc	
29519	ctacctaagtggtcagaggacgtgc	
29520	tgcagcggacattcagggtgcctct	
29521	tagtcgttggcttcatggttccagc	
29522	agtcgttggcttcatggttccagca	
29523	gtcgttggcttcatggttccagcag	
29524	tcgttggcttcatggttccagcagg	
29525	cgttggcttcatggttccagcagga	
29526	ggacattcagggtgcctctttgggg	
29527	gacattcagggtgcctctttggggc	
29528	cattcagggtgcctctttggggcca	
29529	ttcagggtgcctctttggggccaag	
29530	tctttggggccaaggaaggagtgcg	
29531	ccatagtcgttggcttcatggttcc	
29532	catagtcgttggcttcatggttcca	
29533	atagtcgttggcttcatggttccag	
29534	ttatatcaccaggacatatccagat	U30482
29535	caccaggacatatccagatgacacc	U30482
29536	agattacaactctcaaataattggt	U30482
29537	tcacagcctttgagagctgaggtca	U30482
29538	tttactgttccttctcggacacaag	U30482
29539	acacaagaaaccaaatcgagctgat	U30482
29540	agctgattgcttccagggagtctgc	U30482
29541	gaaatatactaccctgtctgtcctc	U30482
29542	acacctaagactgtctcctcctgac	U30482
29543	tcctgaccatctacactaagctttc	U30482
29544	ccatctacactaagctttctcattc	U30482
29545	acactaagctttctcattctatttt	U30482
29546	tccagatgacacctacaggctgtcg	U30482
29547	tgacacctacaggctgtcgcgatta	U30482
29548	ctacaggctgtcgcgattacttctc	U30482
29549	gctgtcgcgattacttctcagactg	U30482
29550	gaacgccaccattactgaagagttg	U30482
29551	caaaggtctcattggcaacgtacgg	U30482
29552	tctcattggcaacgtacggatcgac	U30482
29553	gcctgcagattacaactctcaaata	U30482
29554	atatttgctctatcagggaagttat	W87017
29555	atttgctctatcagggaagttatct	W87017
29556	aactatagactcgacacagattccc	W87017
29557	actatagactcgacacagattccct	W87017
29558	tatagactcgacacagattccctgg	W87017
29559	tatagcaccttgcttgagtacctga	W87017
29560	atagcaccttgcttgagtacctgag	W87017
29561	agcaccttgcttgagtacctgagaa	W87017
29562	gcaccttgcttgagtacctgagaag	W87017
29563	accttgcttgagtacctgagaagct	W87017
29564	ccttgcttgagtacctgagaagctg	W87017
29565	ttgcttgagtacctgagaagctgtg	W87017
29566	tttgctctatcagggaagttatctt	W87017
29567	gttatctttcaggccactggttact	W87017
29568	tctttcaggccactggttactctga	W87017
29569	caggccactggttactctgagtgga	W87017
29570	aggccactggttactctgagtggag	W87017
29571	gatacaaactatagactcgacacag	W87017
29572	atacaaactatagactcgacacaga	W87017
29573	caaactatagactcgacacagattc	W87017
29574	ccatgccgatcgtcatcgggaacac	W87123
29575	atcgtcatcgggaacacgaatgttg	W87123
29576	gcagcctgcacagcatggcagagat	W87123
29577	cctgcacagcatggcagagatcggt	W87123
29578	ggtgcccagaccgcaactacagtaa	W87123
29579	cagaccgcaactacagtaagctgcc	W87123
29580	gaccgcaactacagtaagctgcctg	W87123

SEQ ID NO	sequence	DBAxnID
72117	attgctgttatgtctcagaaaagca	U29088
72118	cattataaacgcttattgtaagaat	U29088
72119	cgtaaagcagtaccttgccaaagag	U29088
72120	gcagtaccttgccaaagagataaga	U29088
72121	gtaccttgccaaagagataagagcc	U29088
72122	aaatctcttcatatgacacctagtg	U29088
72123	tctcttcatatgacacctagtgagc	U29088
72124	cttcatatgacacctagtgagcttt	U29088
72125	ctgggtctcctctaccagaaggcct	D86370
72126	ctcctctaccagaaggcctgctcag	D86370
72127	ctggtcctggacttcaatgtccgag	D86370
72128	gtccgagaggccttctccagcagag	D86370
72129	ttctccagcagagcctcactccttg	D86370
72130	gcctcactccttgggccaggatttg	D86370
72131	atatggattccagctctgctcccag	D86370
72132	attccagctctgctcccagctttaa	D86370
72133	gctctgctcccagctttaaggctga	D86370
72134	ctcctggtcccagctctactggggc	D86370
72135	gctctactggggccctcttgaccag	D86370
72136	actcttgaactcaataaacagtggc	D86370
72137	taccagaaggcctgctcagccttcc	D86370
72138	ctcagccagcacaatgtgagcatgg	D86370
72139	agcatggacatagccactttcaaga	D86370
72140	ttcaagaggctgcaggtggattccc	D86370
72141	attgtggacctgaagaccgaggagg	D86370
72142	gataaaagccctgtccgtgactggc	D86370
72143	ggcatccccaatggctacctggtcc	D86370
72144	ggctacctggtcctggacttcaatg	D86370
72145	acattgatgcacagacggagagtaa	AA071632
72146	ttgatgcacagacggagagtaacca	AA071632
72147	ctccgctcatcttggctgctacagc	AA071632
72148	cgctcatcttggctgctacagctgg	AA071632
72149	tcttggctgctacagctggtcatgt	AA071632
72150	tggctgctacagctggtcatgttgg	AA071632
72151	cagctggtcatgttggtgttgtaga	AA071632
72152	acattgaagcccaatcagaaagaac	AA071632
72153	ttgaagcccaatcagaaagaaccaa	AA071632
72154	aggacacaccactgtccttggcttg	AA071632
72155	acacaccactgtccttggcttgttc	AA071632
72156	cactgtccttggcttgttctggggg	AA071632
72157	gtaaccatgataccgcactgacact	AA071632
72158	accatgataccgcactgacacttgc	AA071632
72159	atgataccgcactgacacttgcctg	AA071632
72160	tgacacttgcctgtgcaggtggcca	AA071632
72161	ttgcctgtgcaggtggccatgagga	AA071632
72162	aactggtgcagacactgctagaaag	AA071632
72163	tgcagacactgctagaaagaggagc	AA071632
72164	ttactccgctcatcttggctgctac	AA071632
72165	tcgagcttctcagatctctcgtgtt	U39066
72166	tcagatctctcgtgttctttacgaa	U39066
72167	agcaaaggggctcttcctgtacagt	U39066
72168	cctgtacagtgtggcttgcagctct	U39066
72169	ccgactgtcaactcaaccgtggctg	U39066
72170	gtcaactcaaccgtggctgatcatc	U39066
72171	gtggctgatcatcgcatcgtttgaa	U39066
72172	gctgatcatcgcatcgtttgaatga	U39066
72173	gatcatcgcatcgtttgaatgaact	U39066
72174	aaaccatgaaagtcacttgtatcac	U39066
72175	tgaaagtcacttgtatcacggctca	U39066
72176	tcacttgtatcacggctcaaagagt	U39066
72177	gatctctcgtgttctttacgaaatg	U39066
72178	ctctcgtgttctttacgaaatgaat	U39066
72179	gaatgcaattggccctggtaacaag	U39066
72180	tgcaattggccctggtaacaaggtg	U39066
72181	gtttcagtgcttggttggaaatatt	U39066
72182	ctgactcggcagtatttatagggct	U39066
72183	tgtctgtggtccagaggaagttatt	U39066
72184	atctccagcaaaggggctcttcctg	U39066

SEQ ID NO	sequence	DBAxnID
114721	tcgaacaagtcgccgtgtctatgac	AA124100
114722	gagatgctatcttcaagcagttcca	AA124100
114723	tcgccgtgtctatgacatagatcta	AA124100
114724	atgctatcttcaagcagttccattt	AA124100
114725	ctatcttcaagcagttccattttaa	AA124100
114726	tcaagcagttccattttaaagactt	AA124100
114727	tcaacagggcttttggcttcatgac	AA124100
114728	caagagtagccctgcaggctgaaaa	AA124100
114729	gagtagccctgcaggctgaaaagct	AA124100
114730	tagccctgcaggctgaaaagctgga	AA124100
114731	gccagccagttctaccacaagagct	U70324
114732	cagttctaccacaagagctgcaaga	U70324
114733	tgtcctgtactgctaatgactgact	U70324
114734	ctaatgactgactctccgtgtcagg	U70324
114735	actgactctccgtgtcaggagtgct	U70324
114736	tctccgtgtcaggagtgctccagtg	U70324
114737	tgtcaggagtgctccagtgaataac	U70324
114738	gaataactatgcactactttacatt	U70324
114739	ctatgcactactttacatttcatgg	U70324
114740	aaatcaattcctattctattgagtt	U70324
114741	tttaatactgactagcaattctgaa	U70324
114742	actgactagcaattctgaagtctta	U70324
114743	taccacaagagctgcaagacggaga	U70324
114744	aatggtctaaacccatagcattggt	U70324
114745	ctaaacccatagcattggtcatggg	U70324
114746	ccatagcattggtcatgggcaacct	U70324
114747	cattggtcatgggcaacctaaactt	U70324
114748	tcatgggcaacctaaacttttctca	U70324
114749	taaacttttctcatgcaactaaaat	U70324
114750	taagtgttttactgtcctgtactgc	U70324
114751	agctaccaagagtccacaaagcagc	AA051644
114752	tccacaaagcagctcaccatgaaga	AA051644
114753	gccaaacttcggcggaagatcacca	AA051644
114754	cggaagatcaccacatatgtgtctt	AA051644
114755	tttcccctggaactggacatgacgc	AA051644
114756	ctggacatgacgcccttcatggcct	AA051644
114757	atgacgcccttcatggcctccagca	AA051644
114758	cccttcatggcctccagcaaagaga	AA051644
114759	atggcctccagcaaagagagcagga	AA051644
114760	gggcaataccagcagcccctggaca	AA051644
114761	ctggacagtctcaacaatgacaaca	AA051644
114762	agtctcaacaatgacaacaaatact	AA051644
114763	aagcagctcaccatgaagaagctgc	AA051644
114764	gacaacaaatactccctgtttgctg	AA051644
114765	aagctgcccattgtggcctgtttcc	AA051644
114766	cccattgtggcctgtttccatctca	AA051644
114767	gtggcctgtttccatctcaaacgat	AA051644
114768	tgtttccatctcaaacgatttgaac	AA051644
114769	catctcaaacgatttgaacactcag	AA051644
114770	tttgaacactcagccaaacttcggc	AA051644
114771	cactcagccaaacttcggcggaaga	AA051644
114772	actcaccatttaatccatatttcct	M36777
114773	agggcttctgtgcagcccatggctg	M36777
114774	catgcgactccaaacacactcaaag	M36777
114775	actccaaacacactcaaagtttgcg	M36777
114776	cagacaacgctcatcacctatagaa	M36777
114777	acgctcatcacctatagaaatccag	M36777
114778	ctcatcacctatagaaatccagccc	M36777
114779	aatccagccctatagaagcaattca	M36777
114780	ttttctggtcctagtgagtgcctcc	M36777
114781	tctggtcctagtgagtgcctcccat	M36777
114782	cctgaccagctctgccagtgtctgg	M36777
114783	gaccagctctgccagtgtctggggt	M36777
114784	aacatgtcaggctagtctgtctaga	M36777
114785	tcaggctagtctgtctagaaggcca	M36777
114786	tctgtctagaaggccactggccact	M36777
114787	ccatgcctgtgggctgcccagacac	M36777
114788	cagacacctcatataccaccaggca	M36777

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
29581	ccgcaactacagtaagctgcctgtt	W87123	72185	aacttaatccctgatgacagagcca	X97818	114789	acacctcatataccaccaggcagtg	M36777
29582	aactacagtaagctgcctgtttgcc	W87123	72186	gatgacagagccaacttctacccac	X97818	114790	ataccaccaggcagtggcagctccg	M36777
29583	ctacagtaagctgcctgtttgcctg	W87123	72187	cttgctgcctagccagtaagggtcc	X97818	114791	ctgctcagccatgcgactccaaaca	M36777
29584	acagtaagctgcctgtttgcctgct	W87123	72188	ccagtaagggtcccatctggcttca	X97818	114792	tctctcttctctctgcctgtcagca	W62035
29585	agtaagctgcctgtttgcctgctgt	W87123	72189	ccatctggcttcaagaaaagctctg	X97818	114793	ttctctctgcctgtcagcaaagtta	W62035
29586	caggcaccgtcaagcctgcacgagt	W87123	72190	agctctggctgtcattgaccatggg	X97818	114794	tcatcgtaatgctgtggatggctgg	W62035
29587	taagctgcctgtttgcctgctgttc	W87123	72191	ggctgtcattgaccatgggagagag	X97818	114795	acttcaatcaagtttttgcagcctg	W62035
29588	ggcaccgtcaagcctgcacgagtag	W87123	72192	ggctggcacatggctgcagatccag	X97818	114796	atcaagtttttgcagcctgtctggg	W62035
29589	caccgtcaagcctgcacgagtagat	W87123	72193	cacatggctgcagatccagctcagc	X97818	114797	cagcctgtctgggtctcctgtacat	W62035
29590	ccgtcaagcctgcacgagtagatcg	W87123	72194	gctgcagatccagctcagcccaggt	X97818	114798	gtctgggtctcctgtacatatacgc	W62035
29591	caagcctgcacgagtagatcgcagg	W87123	72195	gctcagcccaggtctcatggtctcc	X97818	114799	gtctcctgtacatatacgcccgtca	W62035
29592	agcctgcacgagtagatcgcaggtg	W87123	72196	tgccatgtctgagctgtggacctat	X97818	114800	tgtacatatacgcccgtcacaagta	W62035
29593	cctgcacgagtagatcgcaggtgca	W87123	72197	agagccaacttctacccactgcagc	X97818	114801	acatatacgcccgtcacaagtattt	W62035
29594	agtagatcgcaggtgcacggtggtc	W87123	72198	tacccactgcagcagaccaatgtgt	X97818	114802	acaagtatttctggggctatgcgaa	W62035
29595	tcaccttctcctatgggcgtgcctg	W87126	72199	ctgcagcagaccaatgtgtatacaa	X97818	114803	atttctggggctatgcgaagccgct	W62035
29596	accttctcctatgggcgtgcctgca	W87126	72200	gcctcacctggacagcgctgtttcc	X97818	114804	tctctgcctgtcagcaaagttattt	W62035
29597	gtcagccgagggcagatgttaaggc	W87126	72201	cagcgctgtttccccaacagctgat	X97818	114805	ctgcctgtcagcaaagttatttcgc	W62035
29598	agatggctgacggcagcacagtcgc	W87126	72202	cttcccgaggcagagaagagtggaa	X97818	114806	cgggccctctggaattcgagagaat	W62035
29599	atggctgacggcagcacagtcgctc	W87126	72203	tctgcactgggccaagaacttgctg	X97818	114807	tatttcgtgcacagcaaaactcttt	W62035
29600	tggctgacggcagcacagtcgctct	W87126	72204	caagaacttgctgcctagccagtaa	X97818	114808	ttcgtgcacagcaaaactctttgga	W62035
29601	gcacagtcgctctagatcgccaacg	W87126	72205	gtccaagacacctcagggacctact	AA071612	114809	gtgcacagcaaaactctttggagtt	W62035
29602	acagtcgctctagatcgccaacgat	W87126	72206	tccaagacacctcagggacctacta	AA071612	114810	tttatcctgtattcatcgtaatgct	W62035
29603	cagtcgctctagatcgccaacgatg	W87126	72207	ctactactggcacatcccaacaggg	AA071612	114811	ctgtattcatcgtaatgctgtggat	W62035
29604	gtcgctctagatcgccaacgatgcc	W87126	72208	tactactggcacatcccaacaggga	AA071612	114812	cgtactcgcctcgtcgagtcggctg	W14538
29605	tcgctctagatcgccaacgatgcct	W87126	72209	tactggcacatcccaacagggacca	AA071612	114813	cgcctcgtcgagtcggctgggacgt	W14538
29606	gctctagatcgccaacgatgcctac	W87126	72210	actggcacatcccaacagggaccac	AA071612	114814	ggcgccacctcacgtggtaccctgg	W14538
29607	tcctatgggcgtgcctgcaggcatc	W87126	72211	acatcccaacagggaccacccagtg	AA071612	114815	gccacctcacgtggtaccctggaat	W14538
29608	cctatgggcgtgcctgcaggcatct	W87126	72212	catcccaacagggaccacccagtgg	AA071612	114816	cgtggtaccctggaatgtgacactc	W14538
29609	gtgcctgcaggcatctgcactcaat	W87126	72213	gaacagtccccaagaagagtcccag	AA071612	114817	gaatgtgacactcttctcaatcctg	W14538
29610	tgataatgctggtgctgctaatgat	W87126	72214	acagtccccaagaagagtcccagct	AA071612	114818	actcttctcaatcctggtggtcgca	W14538
29611	ataatgctggtgctgctaatgatga	W87126	72215	cagtccccaagaagagtcccagctc	AA071612	114819	cttctcaatcctggtggtcgcatca	W14538
29612	atgctggtgctgctaatgatgagtt	W87126	72216	agtccccaagaagagtcccagctca	AA071612	114820	ggtcgcatcaagtctggaacttgtg	W14538
29613	ttatcaagcgggcagagatgaacgg	W87126	72217	acacctcagggacctactactggca	AA071612	114821	aattcagctggtgaatgcgaccttt	W14538
29614	tatcaagcgggcagagatgaacggg	W87126	72218	acctcagggacctactactggcaca	AA071612	114822	ggtgaatgcgacctttggtgtgttg	W14538
29615	gttcttttgcccctgtcagtcattt	U37720	72219	ctcagggacctactactggcacatc	AA071612	114823	gaatgcgacctttggtgtgttgtgt	W14538
29616	ttgcccctgtcagtcattttcttac	U37720	72220	tcagggacctactactggcacatcc	AA071612	114824	aggctctgaacttggacccaaatgc	W14538
29617	gccatctcctttcaggtgatgaggt	U37720	72221	gggacctactactggcacatcccaa	AA071612	114825	ctctgaacttggacccaaatgctta	W14538
29618	tcctttcaggtgatgaggtcacagg	U37720	72222	ggacctactactggcacatcccaac	AA071612	114826	tggacccaaatgcttaatagacaac	W14538
29619	gagcatacttttaaccaacatgggg	U37720	72223	gacctactactggcacatcccaaca	AA071612	114827	agaaggcgcttacttgcgaaatgac	W14538
29620	catgcctatgaggaacctttgaaca	U37720	72224	cctactactggcacatcccaacagg	AA071612	114828	cttgcgaaatgacactctttggaat	W14538
29621	gaacctttgaacaactggctgaagc	U37720	72225	ctgacctgttgctgtgactagctag	U08185	114829	aaatgacactctttggaatttgtgt	W14538
29622	ttgaacaactggctgaagctttcgc	U37720	72226	tgttgctgtgactagctagatgggt	U08185	114830	tgacactctttggaatttgtgtgag	W14538
29623	ttccccagtcctgatcttgtggatt	U37720	72227	agcatgacctgacattgacaccaaa	U08185	114831	cactctttggaatttgtgtgaggcg	W14538
29624	agtcctgatcttgtggattcgttag	U37720	72228	acctgacattgacaccaaatacaaa	U08185	114832	ctgactttggcctagctagaatcta	L01640
29625	aaccaatgctttcttgtgtctcaac	U37720	72229	atacaaatacgatttctttgcagtg	U08185	114833	ctagaatctacagctaccagatggc	L01640
29626	cttgtgtctcaactctttgtatatg	U37720	72230	tttctttgcagtgaacttgggttgt	U08185	114834	catacgcaacacccgtggacatgtg	L01640
29627	ctgtcagtcattttcttacatgctt	U37720	72231	tcctgtgcttttcttgtgttgggag	U08185	114835	caacacccgtggacatgtggagcgt	L01640
29628	ttcttacatgcttagcacagattca	U37720	72232	gtcttcctcttaggcctcttacatg	U08185	114836	cagagatgttccgtcggaagcctct	L01640
29629	catgcttagcacagattcacaactc	U37720	72233	ctcttaggcctcttacatgagagtg	U08185	114837	tccgtcggaagcctctcttctgtgg	L01640
29630	tagcacagattcacaactcactgtg	U37720	72234	ggcctcttacatgagagtgttgagc	U08185	114838	gtcggaagcctctcttctgtggaaa	L01640
29631	agattcacaactcactgtgtagtgt	U37720	72235	gttgagcccacaatgaacagtggtt	U08185	114839	ctctcttctgtggaaactctgaagc	L01640
29632	ttcctagattcagctgaagacctgg	U37720	72236	ttactttgctagaacaacaaactat	U08185	114840	gagcgcagctgctactggaaatgct	L01640
29633	gattcagctgaagacctggtaccta	U37720	72237	aaaccagagattccacacatgctag	U08185	114841	cgcagctgctactggaaatgctgac	L01640
29634	ggaaacacatcatggctgatgattg	U37720	72238	gagattccacacatgctagcaagca	U08185	114842	agctgctactggaaatgctgacctt	L01640
29635	ggccatgatcgcctattggaccaac	U37386	72239	ccacacatgctagcaagcaagcaag	U08185	114843	ttaacccacataagcgaatctctgc	L01640
29636	gatcgcctattggaccaactttgcc	U37386	72240	aagcaagctgtcactgggctgcagc	U08185	114844	agatggccctcacgcctgtggtggt	L01640
29637	ttccatgaaggagcacctgagagaa	U37386	72241	ctgcagccccaacaagactgacatt	U08185	114845	tggccctcacgcctgtggtggttac	L01640
29638	aaagttcctgaagttctgggctgtg	U37386	72242	ccccaacaagactgacatttctgga	U08185	114846	ccctcacgcctgtggtggttacgct	L01640
29639	cctgaagttctgggctgtgacattc	U37386	72243	tgacatttctggatgcatctgtatt	U08185	114847	accgagctcctgaagttcttctgca	L01640
29640	gacattcgaggtgctgcccacagtg	U37386	72244	aaccaaagcatgacctgacattgac	U08185	114848	ctcctgaagttcttctgcagtctac	L01640
29641	gctgcccacagtgactggtgaccag	U37386	72245	tctcatacagatcaaggacgcctta	Z50192	114849	aagttcttctgcagtctacatacgc	L01640
29642	tgactcagaggttgcccctgaccca	U37386	72246	acagatcaaggacgccttaagagat	Z50192	114850	ttcttctgcagtctacatacgcaac	L01640
29643	cccacctacagatgactctgtggag	U37386	72247	agacctgaacacaggggagccgatg	Z50192	114851	ctacatacgcaacacccgtggacat	L01640
29644	gatgcctgccaccattggcttctaa	U37386	72248	ttgcacggtgattgccaccaacatc	Z50192	114852	caggtctgctgtgatgggtcacatg	W14540
29645	tgccaccattggcttctaaagtctt	U37386	72249	caacatcctcctggttgatgaaatt	Z50192	114853	gtctgctgtgatgggtcacatgggc	W14540
29646	tcatataagccttggtcccagggtt	U37386	72250	gatgtcttctcttagagactgattg	Z50192	114854	gccctccaggtaggccctgagtctc	W14540
29647	ctattggaccaactttgccaggagt	U37386	72251	gaattccaaatcaattcatctggaa	Z50192	114855	ctccaggtaggccctgagtctctct	W14540
29648	ctgttcaataaagctctccttcaat	U37386	72252	caaatcaattcatctggaagacaag	Z50192	114856	gtaggccctgagtctctctgcttca	W14540

TABLE 1

SEQ ID NO	sequence	DBAxnID
29649	ccccaacatgggcaactcacctgtg	U37386
29650	catgggcaactcacctgtgcccaca	U37386
29651	gaatggcaactacctggacatcact	U37386
29652	cctggacatcactaagacgataacc	U37386
29653	taagacgataaccagcgcttccatg	U37386
29654	gataaccagcgcttccatgaaggag	U37386
29655	cagcgcttccatgaaggagcacctg	U37386
29656	gccatcgaccgcgcggacaggccga	W87202
29657	gaccgcgcggacaggccgaagccgc	W87202
29658	gaacgatgcccaggagaccactgga	W87202
29659	gatgcccaggagaccactggaacag	W87202
29660	tgcccaggagaccactggaacaggc	W87202
29661	agaccactggaacaggctgagaata	W87202
29662	accactggaacaggctgagaatacg	W87202
29663	gaatacgagcatcgacgctgacgca	W87202
29664	atacgagcatcgacgctgacgcaga	W87202
29665	acgagcatcgacgctgacgcagatg	W87202
29666	gagcatcgacgctgacgcagatgtg	W87202
29667	acgcagatgtggcctctctcaaggg	W87202
29668	aaagcacgctggagaccgatccagg	W87202
29669	agcacgctggagaccgatccaggca	W87202
29670	cacgctggagaccgatccaggcagc	W87202
29671	accgatccaggcagctggccgaaga	W87202
29672	ccaggcagctggccgaagatgagca	W87202
29673	gaatagtgttccgagtccgagaacg	W87202
29674	gtccgagaacgatgcccaggagacc	W87202
29675	ccgagaacgatgcccaggagaccac	W87202
29676	gtcattattctcagtggagaccgcc	U01841
29677	attctcagtggagaccgcccaggct	U01841
29678	ctcaggcagatcgtcacagagcacg	U01841
29679	cagatcgtcacagagcacgtgcagc	U01841
29680	atcgtcacagagcacgtgcagctac	U01841
29681	gagcacgtgcagctactgcatgtga	U01841
29682	cacgtgcagctactgcatgtgatca	U01841
29683	gtgcagctactgcatgtgatcaaga	U01841
29684	cgctgacaacgtgttccttctattg	U01841
29685	tgacaacgtgttccttctattgatt	U01841
29686	gttccttctattgattgcactatta	U01841
29687	ctgacacctaagaaatttactgtga	U01841
29688	aacgtgaagcccatcgaggacatcc	U01841
29689	aagcccatcgaggacatccaagaca	U01841
29690	ctggaactgcagctcaagctgaatc	U01841
29691	gaactgcagctcaagctgaatcacc	U01841
29692	aagctgaatcacccagagtcctctc	U01841
29693	aatcacccagagtcctctcagctgt	U01841
29694	ttcgccaaggtgctccagaagatga	U01841
29695	aagatgacagacctcaggcagatcg	U01841
29696	tcagcatcttctctgtgtacctggc	U35368
29697	tcttctctgtgtacctggcatgtcc	U35368
29698	gaatgcacacctgtgtttttccaagg	U35368
29699	aatgagcctgatacctgtgtttcag	U35368
29700	cctgatacctgtgtttcagcatttg	U35368
29701	acctgtgtttcagcatttggccacg	U35368
29702	tattattccttgatcacatttatcg	U35368
29703	tccttgatcacatttatcgtttgat	U35368
29704	atcacatttatcgtttgatcttgct	U35368
29705	gtttgatcttgctctgttatgccag	U35368
29706	tctgttatgccagtgtatgtcgctg	U35368
29707	atgccagtgtatgtcgctgaattct	U35368
29708	ttcttccttcaaagaagctccggtg	U35368
29709	cttcaaagaagctccggtgtttatg	U35368
29710	gttgtgctcaacgccaaacagtcat	U35368
29711	cagtcatcagagctgagcgttctga	U35368
29712	tcagagctgagcgttctgatcaggt	U35368
29713	ctgagcgttctgatcaggtgcgtct	U35368
29714	tcactgtgtgacttgctttactctc	U35368
29715	ctctccatgggctggatgaacgagg	U35368
29716	accagctctggggtcactgagagat	W87254
72253	aattcatctggaagacaagatttta	Z50192
72254	atacgtgtcatacccagcagcgtca	Z50192
72255	gtcatacccagcagcgtcacatggc	Z50192
72256	cccagcagcgtcacatggccttaac	Z50192
72257	tggactccgtgcggtcaaaaatgct	Z50192
72258	agaagctcttgttaactacaagcac	Z50192
72259	taactacaagcaccgtgtgcaggga	Z50192
72260	caagcaccgtgtgcagggaagagtt	Z50192
72261	ggggatccaagcctttgctgatgcc	Z50192
72262	cccgaaggttcttgctcagaattct	Z50192
72263	aattcaaactaaacatgccgaatca	Z50192
72264	actcctgggcatagacctgaacaca	Z50192
72265	aaattgactgtgtccagggcaagga	AA071662
72266	tgactgtgtccagggcaaggaagat	AA071662
72267	acagccattccaggttgctgaggtc	AA071662
72268	agccattccaggttgctgaggtctt	AA071662
72269	attccaggttgctgaggtcttcaca	AA071662
72270	ggttgctgaggtcttcacaggtcac	AA071662
72271	ttgctgaggtcttcacaggtcacat	AA071662
72272	tgaggtcttcacaggtcacatggga	AA071662
72273	aggtcttcacaggtcacatgggaaa	AA071662
72274	gtcttcacaggtcacatgggaaagc	AA071662
72275	cttcacaggtcacatgggaaagctg	AA071662
72276	tcacaggtcacatgggaaagctggt	AA071662
72277	actgtgtccagggcaaggaagatac	AA071662
72278	aagatacagcgcttcttgtcacagc	AA071662
72279	gatacagcgcttcttgtcacagcca	AA071662
72280	tacagcgcttcttgtcacagccatt	AA071662
72281	cagcgcttcttgtcacagccattcc	AA071662
72282	gcttcttgtcacagccattccaggt	AA071662
72283	cttgtcacagccattccaggttgct	AA071662
72284	tgtcacagccattccaggttgctga	AA071662
72285	atggctgcgctcacccggaacccgg	AA071776
72286	aacccggagttccagaagctgctgg	AA071776
72287	gagcgcttcaaccacttcagcttga	AA071776
72288	cgcttcaaccacttcagcttgaacc	AA071776
72289	ttcaaccacttcagcttgaacctca	AA071776
72290	cacttcagcttgaacctcaacacca	AA071776
72291	agcttgaacctcaacaccaaccatg	AA071776
72292	ctcaacaccaaccatggacatattc	AA071776
72293	aacaccaaccatggacatattctgt	AA071776
72294	ttggattactccaagaaccttgtga	AA071776
72295	tactccaagaaccttgtgaacaagg	AA071776
72296	atgctggtggacctggccaagtcca	AA071776
72297	gagttccagaagctgctggagtggc	AA071776
72298	tggcaccgggcgaactctgccaacc	AA071776
72299	gcgaactctgccaacctcaagctgc	AA071776
72300	aacctcaagctgcgcgaacttttg	AA071776
72301	ctcaagctgcgcgaacttttgagg	AA071776
72302	aagctgcgcgaacttttgaggcag	AA071776
72303	ctttttgaggcagatccggagcgct	AA071776
72304	gcagatccggagcgcttcaaccact	AA071776
72305	tgcaaaaagcgcctcaatgaccgga	X84037
72306	gctccagcagatggcttctctgatc	X84037
72307	cagctgcccttgcagcgtcggcagc	X84037
72308	cccttgcagcgtcggcagctggctg	X84037
72309	cagcgtcggcagctggctgctttgg	X84037
72310	gaaggtttacctgcctgtagacaat	X84037
72311	ttacctgcctgtagacaattctgtc	X84037
72312	agacaattctgtcatacctacagaa	X84037
72313	tacagaactgctggtacttccagac	X84037
72314	actgctggtacttccagaccgactc	X84037
72315	ggtacttccagaccgactcacctga	X84037
72316	cacctgacctgcaactcaaattttt	X84037
72317	ccctcaaagaactacatcctgtctg	X84037
72318	tacatcctgtctgtgatcagcggga	X84037
72319	ctgtctgtgatcagcgggagcatct	X84037
72320	ctcttcctgattggcctgatgtgtg	X84037
114857	ggccctgagtctctctgcttcacca	W14540
114858	agcctgctcccacttgtgtttggtg	W14540
114859	ctgctcccacttgtgtttggtgatc	W14540
114860	ccacttgtgtttggtgatcagcgcc	W14540
114861	cttgtgtttggtgatcagcgccgcc	W14540
114862	atccgagccgtcgtaggcgtactgc	W14540
114863	gtcgtaggcgtactgctggtacccg	W14540
114864	tgctgtgatgggtcacatgggcctt	W14540
114865	tcacatgggcctttggggaatctgt	W14540
114866	ctgtgcgcacagcgtcgcgttcccg	W14540
114867	cagcgtcgcgttcccgttcttcagg	W14540
114868	cgcgttcccgttcttcaggtatctg	W14540
114869	cccgttcttcaggtatctgcggacg	W14540
114870	gttcttcaggtatctgcggacgcac	W14540
114871	cttcaggtatctgcggacgcactcc	W14540
114872	tgatcggacttgggttgcgccgaag	W90837
114873	tgggttgcgccgaaggacagccctg	W90837
114874	tccccgacgcaaccatggctgaaga	W90837
114875	ccccgacgcaaccatggctgaagaa	W90837
114876	ccgacgcaaccatggctgaagaaca	W90837
114877	cgacgcaaccatggctgaagaacaa	W90837
114878	gacgcaaccatggctgaagaacaac	W90837
114879	acgcaaccatggctgaagaacaacc	W90837
114880	ctgaagaacaacctcaggtcgaact	W90837
114881	tgaagaacaacctcaggtcgaactg	W90837
114882	gaaggacagccctgagtctggagga	W90837
114883	acagccctgagtctggaggagagaa	W90837
114884	cagccctgagtctggaggagagaat	W90837
114885	agccctgagtctggaggagagaatc	W90837
114886	gccctgagtctggaggagagaatcc	W90837
114887	ccctgagtctggaggagagaatccc	W90837
114888	ggtccccgacgcaaccatggctgaa	W90837
114889	gtccccgacgcaaccatggctgaag	W90837
114890	aatacctggctcaagagtgctggac	M63659
114891	gctggactaccagccacaccagcga	M63659
114892	gccgtgcaggttctcactgagtcac	M63659
114893	caggttctcactgagtcacactaac	M63659
114894	gagtcacactaactcgggagcttgg	M63659
114895	agcttggcctcacactaggctgtaa	M63659
114896	gcctcacactaggctgtaaagagca	M63659
114897	atgcgatgctgctaagctcaccgtg	M63659
114898	tgctgctaagctcaccgtgtccaag	M63659
114899	taagctcaccgtgtccaagcccagg	M63659
114900	agagtgaacacacagccttagcatc	M63659
114901	aacacacagccttagcatcgtgcca	M63659
114902	gccacaccagcgagctccgggcaag	M63659
114903	ccagcgagctccgggcaagaggacg	M63659
114904	gctactgaatcggggactgtgagac	M63659
114905	caccatcactctgctgttgatctgt	M63659
114906	cactctgctgttgatctgtaaaacc	M63659
114907	gtttcgcctctctacagaaactctt	M63659
114908	tacagaaactcttccttgttgacac	M63659
114909	ttgacacagttaaccaaggttcagg	M63659
114910	ttgcgttctctgaagtcgcagactg	AA105763
114911	gcgttctctgaagtcgcagactgta	AA105763
114912	ggtattccttggattggataatgcc	AA105763
114913	caactttgctacacatgctgaaaga	AA105763
114914	atgacaggctcgggcagcacgtccc	AA105763
114915	gctacatcccacttcagaagagctt	AA105763
114916	agagcttactattgctggcatgacg	AA105763
114917	agcttactattgctggcatgacgtt	AA105763
114918	cttactattgctggcatgacgttta	AA105763
114919	tactattgctggcatgacgtttaca	AA105763
114920	ctattgctggcatgacgtttacaac	AA105763
114921	catgacgtttacaacttttgatctg	AA105763
114922	tctctgaagtcgcagactgtaagat	AA105763
114923	tctggatatgtccttcatatttgac	AA105763
114924	tggatatgtccttcatatttgactg	AA105763

TABLE 1

SEQ ID NO	sequence	DBAxnID
29717	agctctggggtcactgagagatgcc	W87254
29718	aaatgcaaacccagccatacattgc	W87254
29719	tgcaaacccagccatacattgccat	W87254
29720	aaacccagccatacattgccatgga	W87254
29721	cccagccatacattgccatggattg	W87254
29722	agccatacattgccatggattggga	W87254
29723	catacattgccatggattgggaacc	W87254
29724	acattgccatggattgggaaccaga	W87254
29725	agcatgactgtgtgggctacatgct	W87254
29726	atgactgtgtgggctacatgctgaa	W87254
29727	actgtgtgggctacatgctgaagaa	W87254
29728	tctggggtcactgagagatgcccat	W87254
29729	ccccaaggcgacgacgaaagcagct	W87254
29730	gaaagcagctgtttactctgcagac	W87254
29731	agctgtttactctgcagacggtgaa	W87254
29732	tgtttactctgcagacggtgaactc	W87254
29733	ttactctgcagacggtgaactccaa	W87254
29734	ctctgcagacggtgaactccaatgg	W87254
29735	tgaactccaatggaaccagtgaccg	W87254
29736	gcaaccataccagcaccaaacaaca	U37531
29737	cctactacttcacctaagcctagca	U37531
29738	tctactacaactagtactaccatcc	U37531
29739	agtactaccatccaaactacagctc	U37531
29740	actaccatccaaactacagctccaa	U37531
29741	atccaaactacagctccaacatttg	U37531
29742	actacagctccaacatttgcggaag	U37531
29743	gctccaacatttgcggaagtgtttt	U37531
29744	aagttctttcagcagatctttaggt	U37531
29745	ttctttcagcagatctttaggttaa	U37531
29746	taggatagtctccaaacttttctga	U37531
29747	caaacttttctgatctcttaggata	U37531
29748	actacttcacctaagcctagcacct	U37531
29749	tcacctaagcctagcacctctacag	U37531
29750	tctacagccatacctacaacaacta	U37531
29751	gccatacctacaacaactaagtctg	U37531
29752	cctacaacaactaagtctgcaaata	U37531
29753	acaactaagtctgcaaatagtactt	U37531
29754	gcaaatagtacttcctctactacaa	U37531
29755	tcctctactacaactagtactacca	U37531
29756	ggccgtctcagtgctaagttgacac	U37226
29757	gctaagttgacactccggggcaagg	U37226
29758	actgttggggctgacctccactttg	U37226
29759	cactttgccaaagggcttcgagaag	U37226
29760	tctgctgcagctgcctgagcccatc	U37226
29761	acctgggtggctggcattcaggaac	U37226
29762	ggcattcaggaacctaactgaagtc	U37226
29763	cctaactgaagtcttctctgcaccc	U37226
29764	cttcccatctacagtgttagtggtc	U37226
29765	tttaattccagaattagtcaaccat	U37226
29766	attagtcaaccatcaattagaatcc	U37226
29767	caaccatcaattagaatccatccac	U37226
29768	tttcaaatctactcaaatcagtctg	U37226
29769	atctactcaaatcagtctgcgctgg	U37226
29770	gagtctctggcgctgatcccactgc	U37226
29771	ccactgaagacactgctgcaaatcg	U37226
29772	aagacactgctgcaaatcggagtga	U37226
29773	atgcctttgctgaacgagcgtacct	U37226
29774	ggtatcaacttcgtgcgtgaggtgg	U37226
29775	aaccacgcgggcttcgtcactgttg	U37226
29776	gactctcagagattgctgcaacatc	W88085
29777	agattgctgcaacatctgagcactc	W88085
29778	gtctttacactatattgagtaggct	W88085
29779	tttacactatattgagtaggctaat	W88085
29780	taatctataatgggctcatgaatta	W88085
29781	attactgcaagattacctggacttt	W88085
29782	agattacctggactttgatgattta	W88085
29783	ttacctggactttgatgatttagat	W88085
29784	ttcgctagctttgaattttactgga	W88085

SEQ ID NO:	sequence	DBAxnID
72321	cgcaggcctgaccaccaaggagcca	X84037
72322	tacagccgtcctgtatagtgtaccc	X84037
72323	cgtcctgtatagtgtaccctctcac	X84037
72324	acacccacagtagagcagcatcagg	X84037
72325	tgtgctcattgtctcttccatcctt	X92969
72326	tgtgtccactgaaggccagaagaaa	X92969
72327	tgtctacagcctcaggaacaaagaa	X92969
72328	agatgctctatgcagagctgtgggc	X92969
72329	tctatgcagagctgtgggcagaaac	X92969
72330	actttagctcaagtatgtctactca	X92969
72331	gtatgtctactcatcaataagacat	X92969
72332	aagacatgatctacatgctcatcaa	X92969
72333	acatgctcatcaaatacggtgtcta	X92969
72334	tttgggctctaatgtttggttctca	X92969
72335	gttctcagatccaagaatcatttta	X92969
72336	gcttacttctttaagttctggatgg	X92969
72337	ctgtgcctctcatctcactgtggtc	X92969
72338	ctctcatctcactgtggtcattgtc	X92969
72339	ccactatggctgtgcctccattgcc	X92969
72340	agaccttcttctctctgtgacctac	X92969
72341	tcttctctctgtgacctacactatc	X92969
72342	ctctgtgacctacactatcatcact	X92969
72343	cactatcatcactcccttgctgaac	X92969
72344	tcccttgctgaaccctgttgtctac	X92969
72345	caccggtgactactgtgctttcggt	AA071606
72346	ggtgactactgtgctttcggtacct	AA071606
72347	gcggacgatttccaccgatgagcga	AA071606
72348	ggacgatttccaccgatgagcgagc	AA071606
72349	gacgatttccaccgatgagcgagct	AA071606
72350	acgatttccaccgatgagcgagcta	AA071606
72351	gatttccaccgatgagcgagctacg	AA071606
72352	atttccaccgatgagcgagctacga	AA071606
72353	tttccaccgatgagcgagctacgat	AA071606
72354	tccaccgatgagcgagctacgatgg	AA071606
72355	ccaccgatgagcgagctacgatggc	AA071606
72356	caccgatgagcgagctacgatggca	AA071606
72357	gtgactactgtgctttcggtacctt	AA071606
72358	tgactactgtgctttcggtaccttc	AA071606
72359	tgtgctttcggtaccttcgcctccg	AA071606
72360	ttcgcctccggaccttcagcggacg	AA071606
72361	ccttcagcggacgatttccaccgat	AA071606
72362	cttcagcggacgatttccaccgatg	AA071606
72363	ttcagcggacgatttccaccgatga	AA071606
72364	cagcggacgatttccaccgatgagc	AA071606
72365	caagtgcatttcaaaccaggacttt	X97817
72366	tcccatcgctaccaaaaaagtgcac	X97817
72367	aaatgtctctttgtatctgccctag	X97817
72368	ctctttgtatctgccctagacacat	X97817
72369	gtatctgccctagacacattcagga	X97817
72370	gccctagacacattcaggacaatgt	X97817
72371	gacacattcaggacaatgtctccac	X97817
72372	ggtcctgcattttgccaagagcaca	X97817
72373	gcattttgccaagagcacagcattg	X97817
72374	gctcatcgtctctctgccaacgttt	X97817
72375	atagtttgccttgttcagttgtatg	X97817
72376	tgccttgttcagttgtatgtgagta	X97817
72377	agtgcacaccccttaaatgcctaaat	X97817
72378	aacatttggttgttgcgaagtgagc	X97817
72379	attttgtattgtgctcatcctaaac	X97817
72380	tattgtgctcatcctaaactctaac	X97817
72381	ctctaactggtctactgtttttcag	X97817
72382	cataaatgtgccaaccatattgaaa	X97817
72383	tgtgccaaccatattgaaaagtgtc	X97817
72384	agcatcgtcatgcttttgagtgtag	X97817
72385	gctatttgatcccgcggagtgccgg	AA071744
72386	ctatttgatcccgcggagtgccgga	AA071744
72387	aactatggcggacgcagccaacaca	AA071744
72388	actatggcggacgcagccaacacaa	AA071744

SEQ ID NO	sequence	DBAxnID
114925	tatgtccttcatatttgactggatt	AA105763
114926	tgtccttcatatttgactggattta	AA105763
114927	tccttcatatttgactggatttaca	AA105763
114928	ttacagtggtttcagcagtgtgctg	AA105763
114929	ctggtattccttggattggataatg	AA105763
114930	ttgctctctatttttcgcaaatacg	W77226
114931	tgctctctatttttcgcaaatacga	W77226
114932	ctactcctgggcttggacaacgcgg	W77226
114933	tactcctgggcttggacaacgcggg	W77226
114934	ttgctgaagcaactcgcatctgaag	W77226
114935	gatttaacatcaaaagcgtgcagtc	W77226
114936	tttaacatcaaaagcgtgcagtcac	W77226
114937	taacatcaaaagcgtgcagtcacaa	W77226
114938	aggaaaatcagaccatactggagaa	W77226
114939	aaatcagaccatactggagaagtta	W77226
114940	aatcagaccatactggagaagttat	W77226
114941	tcagaccatactggagaagttattt	W77226
114942	gctctctatttttcgcaaatacgaa	W77226
114943	aaagtggcaccagaccaggaggtgc	W77226
114944	agtggcaccagaccaggaggtgcga	W77226
114945	gtggcaccagaccaggaggtgcgaa	W77226
114946	gcgaatcctactcctgggcttggac	W77226
114947	cgaatcctactcctgggcttggaca	W77226
114948	atcctactcctgggcttggacaacg	W77226
114949	tcctactcctgggcttggacaacgc	W77226
114950	ccaaggaccagactgtggtgtttgt	W14613
114951	aggaccagactgtggtgtttgtagc	W14613
114952	gttgcgcccacatctatagtgcctt	W14613
114953	gcgcccacatctatagtgccttgga	W14613
114954	gtgccttggaccagacggcccgcaa	W14613
114955	tggaccagacggcccgcaagatcaa	W14613
114956	accagacggcccgcaagatcaactt	W14613
114957	agacggcccgcaagatcaacttggc	W14613
114958	gcaagatcaacttggccaagttcac	W14613
114959	agatcaacttggccaagttcacaca	W14613
114960	ccaagttcacacacaacaaatgttc	W14613
114961	tcacacacaacaaatgttccaccct	W14613
114962	ttgtagccacaaagcaccatgcgga	W14613
114963	tagccacaaagcaccatgcggagta	W14613
114964	agcaccatgcggagtacctcacaga	W14613
114965	accatgcggagtacctcacagagtt	W14613
114966	atgcggagtacctcacagagttgct	W14613
114967	agtacctcacagagttgctgatggg	W14613
114968	acctcacagagttgctgatgggcca	W14613
114969	tcacagagttgctgatgggccaggg	W14613
114970	tctcagcctgatgctgatgcggtca	M63660
114971	cacgcagtttcctttgccatacatg	M63660
114972	agcagccccagagtgtgactttctg	M63660
114973	cccagagtgtgactttctggtcctg	M63660
114974	gtctccttggactttgtgccttgct	M63660
114975	ttggactttgtgccttgctggagag	M63660
114976	tctcaacctcagcagctctgaactg	M63660
114977	tgaactgtggtgctctcgggcttct	M63660
114978	ccccgagagtttggtgggcagcatt	M63660
114979	tgttcaaaaaggcatcctttcagta	M63660
114980	ttcagtaccctgtccctggttagtg	M63660
114981	tcatcgtgtgtgagacacagcttca	M63660
114982	gtttcctttgccatacatgctgtca	M63660
114983	gctgtcactaacttaatgtgccatg	M63660
114984	actaacttaatgtgccatgttacaa	M63660
114985	tgccatgttacaacatctggagagg	M63660
114986	ggcaagcaccctggtgacggacatc	M63660
114987	caccctggtgacggacatcaccata	M63660
114988	ggacatcaccatagcagccccagag	M63660
114989	caccatagcagccccagagtgtgac	M63660
114990	atttctgctcagggcagatcttctt	W30246
114991	tttctgctcagggcagatcttcttc	W30246
114992	gcctgaacttgaccgttgcctgagc	W30246

TABLE 1

SEQ ID NO	sequence	DBAxnID
29785	aggtacatgcgacttctatgtggtg	W88085
29786	atgcgacttctatgtggtgtgttgg	W88085
29787	cttctatgtggtgtgttggacttag	W88085
29788	ttgctgcaacatctgagcactctgt	W88085
29789	ctgcaacatctgagcactctgtggg	W88085
29790	caacatctgagcactctgtgggaac	W88085
29791	catctgagcactctgtgggaacagg	W88085
29792	ctgagcactctgtgggaacaggatt	W88085
29793	agcactctgtgggaacaggattcta	W88085
29794	gttttggtctttacactatattgag	W88085
29795	ttggtctttacactatattgagtag	W88085
29796	actctatgcagataacgtcaacgac	U37222
29797	taacgtcaacgactctacatttact	U37222
29798	tttcagcttagtttgagagattgat	U37222
29799	ttatccacacgtgtactcacttgtt	U37222
29800	acacgtgtactcacttgttcattaa	U37222
29801	gtactcacttgttcattaaacgact	U37222
29802	tcgcatgactgtctggaagtagacc	U37222
29803	catgctatttttctgctcactgtac	U37222
29804	tattgttcacataaaccctataatg	U37222
29805	tcacataaaccctataatgtaaata	U37222
29806	tacagtgattactcttctcacaggc	U37222
29807	gattactcttctcacaggctgagtg	U37222
29808	ctctacatttactggctttcttctc	U37222
29809	tggctttcttctctaccatgatacc	U37222
29810	tcttctctaccatgataccaactga	U37222
29811	tgataccaactgactgcaactaccc	U37222
29812	caactgactgcaactacccatagcc	U37222
29813	actgcaactacccatagcccataca	U37222
29814	ccatacaccaggagaatcatggaac	U37222
29815	atggaacagtcgacacactttcagc	U37222
29816	cacggccacagcggtggtgtgatgt	W88176
29817	gccacagcggtggtgtgatgtgcct	W88176
29818	atcgaccaatgcctgagaacttccg	W88176
29819	cgaccaatgcctgagaacttccgaa	W88176
29820	accaatgcctgagaacttccgaaag	W88176
29821	caatgcctgagaacttccgaaagct	W88176
29822	atgcctgagaacttccgaaagctta	W88176
29823	ctgagaacttccgaaagcttaggct	W88176
29824	aagcttaggcttcaaggttgctggg	W88176
29825	ttaggcttcaaggttgctgggaagt	W88176
29826	aggcttcaaggttgctgggaagttg	W88176
29827	gcttcaaggttgctgggaagttgtt	W88176
29828	cacagcggtggtgtgatgtgccttc	W88176
29829	agatcatcgcttttatcgaccaatg	W88176
29830	atcatcgcttttatcgaccaatgcc	W88176
29831	catcgcttttatcgaccaatgcctg	W88176
29832	tcgcttttatcgaccaatgcctgag	W88176
29833	gcttttatcgaccaatgcctgagaa	W88176
29834	ttttatcgaccaatgcctgagaact	W88176
29835	ttatcgaccaatgcctgagaacttc	W88176
29836	ttttgatttgggccctacagactcg	W88213
29837	tgatttgggccctacagactcgtct	W88213
29838	tctaggaccctgtcacccacaggac	W88213
29839	ctgtcacccacaggacgcgcagcgt	W88213
29840	acaggacgcgcagcgtcttgcccat	W88213
29841	tcttgcccatagcgctcgtacgcag	W88213
29842	tcgtacgcaggcgcgttccatcatg	W88213
29843	tacgcaggcgcgttccatcatggaa	W88213
29844	gcgttccatcatggaaccactcatg	W88213
29845	cgttccatcatggaaccactcatgg	W88213
29846	gttccatcatggaaccactcatggt	W88213
29847	ttccatcatggaaccactcatggtt	W88213
29848	tttgggccctacagactcgtctcac	W88213
29849	gtctcaccctcgagcagatccggct	W88213
29850	tcaccctcgagcagatccggctgga	W88213
29851	ccctcgagcagatccggctggagtt	W88213
29852	agatccggctggagttccaggctcc	W88213

SEQ ID NO	sequence	DBAxnID
72389	ggcggacgcagccaacacaacacag	AA071744
72390	gcggacgcagccaacacaacacagt	AA071744
72391	cggacgcagccaacacaacacagtg	AA071744
72392	ggacgcagccaacacaacacagtga	AA071744
72393	gacgcagccaacacaacacagtgaa	AA071744
72394	acgcagccaacacaacacagtgaag	AA071744
72395	cgcagccaacacaacacagtgaagc	AA071744
72396	gcagccaacacaacacagtgaagct	AA071744
72397	tatttgatcccgcggagtgccggag	AA071744
72398	cgttggctcaactatggcggacgca	AA071744
72399	ttggctcaactatggcggacgcagc	AA071744
72400	tggctcaactatggcggacgcagcc	AA071744
72401	ggctcaactatggcggacgcagcca	AA071744
72402	gctcaactatggcggacgcagccaa	AA071744
72403	ctcaactatggcggacgcagccaac	AA071744
72404	tcaactatggcggacgcagccaaca	AA071744
72405	tgctttagtctacttcaaaagaatg	X97042
72406	caaatttactcaaagttgcagttag	X97042
72407	tcaatgccctgtcccaaaggaacat	X97042
72408	ccctgtcccaaaggaacatccatgt	X97042
72409	cccaaaggaacatccatgtattcaa	X97042
72410	acagacagacccccatggtccctat	X97042
72411	ccatggtccctatctgtagtcagac	X97042
72412	tccctatctgtagtcagactgtgct	X97042
72413	tctgtagtcagactgtgctggctgg	X97042
72414	gtcagactgtgctggctgggtctct	X97042
72415	aatacagtgcgcttgtgtgatggac	X97042
72416	agcagcccttcctgaagctgtggta	X97042
72417	ccccacagaggtggccgcagcactg	X97042
72418	gacaacgtttcctgtgccaacactg	X97042
72419	gtttcctgtgccaacactgcctgtg	X97042
72420	tgtgccaacactgcctgtgggtaat	X97042
72421	aacactgcctgtgggtaatgagtag	X97042
72422	gcaccccattccagcttagtgatgt	X97042
72423	cattccagcttagtgatgtcttcaa	X97042
72424	acagtatcaatgccctgtcccaaag	X97042
72425	ggccctcattacctcctgcatcgat	AA107953
72426	cattacctcctgcatcgatggcttc	AA107953
72427	cgagaacccgggcatcaaccagcgg	AA107953
72428	gaaggcgtctgactggcagtacaac	AA107953
72429	ctggcagtacaacatcaccgtcagc	AA107953
72430	gcagtacaacatcaccgtcagcgca	AA107953
72431	gtacaacatcaccgtcagcgcacta	AA107953
72432	caacatcaccgtcagcgcactagta	AA107953
72433	ttacaatgaagtcctcagggacctg	AA107953
72434	cctcagggacctgctggggaaagag	AA107953
72435	cagggacctgctggggaaagagcct	AA107953
72436	agagcctcaggagaagctggagatc	AA107953
72437	tacctcctgcatcgatggcttcaat	AA107953
72438	ctgcatcgatggcttcaatgtctgt	AA107953
72439	cgatggcttcaatgtctgtatcttt	AA107953
72440	tggcttcaatgtctgtatctttgct	AA107953
72441	caatgtctgtatctttgcttacggc	AA107953
72442	tatctttgcttacggccagacaggt	AA107953
72443	cggccagacaggtgccggcaagaca	AA107953
72444	ccagacaggtgccggcaagacatat	AA107953
72445	ccttgttcacttttgccatcagtgt	AA071775
72446	tgttcacttttgccatcagtgtcaa	AA071775
72447	tacagcagctgctgccacgatttcg	AA071775
72448	acagcagctgctgccacgatttcga	AA071775
72449	agcagctgctgccacgatttcgatg	AA071775
72450	agctgctgccacgatttcgatgagc	AA071775
72451	gctgctgccacgatttcgatgagct	AA071775
72452	gctgccacgatttcgatgagctctg	AA071775
72453	tgccacgatttcgatgagctctgtt	AA071775
72454	gatttcgatgagctctgtttgaaaa	AA071775
72455	ttcgatgagctctgtttgaaaacag	AA071775
72456	tcgatgagctctgtttgaaaacagc	AA071775

SEQ ID NO	sequence	DBAxnID
114993	acttgaccgttgcctgagccctgaa	W30246
114994	cttgaccgttgcctgagccctgaag	W30246
114995	ttgaccgttgcctgagccctgaagg	W30246
114996	gaccgttgcctgagccctgaaggtg	W30246
114997	accgttgcctgagccctgaaggtgt	W30246
114998	gcaacttcgcggtagttaaggagtg	W30246
114999	ttaaggagtgcgtggacaggtacac	W30246
115000	atagacaaagccaaatgctgtggaa	W30246
115001	gacaaagccaaatgctgtggaaagg	W30246
115002	tctgctcagggcagatcttcttcca	W30246
115003	ctgctcagggcagatcttcttccaa	W30246
115004	tgctcagggcagatcttcttccaac	W30246
115005	cagggcagatcttcttccaacgtaa	W30246
115006	ggcagatcttcttccaacgtaaacg	W30246
115007	gcagatcttcttccaacgtaaacgg	W30246
115008	gggcctgaacttgaccgttgcctga	W30246
115009	ggcctgaacttgaccgttgcctgag	W30246
115010	taactgtaaccacagagtcatttgt	M63436
115011	taaccacagagtcatttgtagatat	M63436
115012	tcatctgaacttttaccagtagact	M63436
115013	tctgaacttttaccagtagactcta	M63436
115014	gaacttttaccagtagactctatag	M63436
115015	ttaccagtagactctatagagatca	M63436
115016	atagagatcagccagcctaacacag	M63436
115017	gagatcagccagcctaacacagatg	M63436
115018	agccagcctaacacagatgtttact	M63436
115019	cagcctaacacagatgtttacttga	M63436
115020	tactcttattcccagatagcccatt	M63436
115021	tattcccagatagcccattcaccca	M63436
115022	acctatgtctttattgcacaaatga	M63436
115023	attcccagatagcccattcacccaa	M63436
115024	tatcactgtagcattctgaatccag	M63436
115025	tgtagcattctgaatccagtgtggg	M63436
115026	cctttcaatcgggctacactgctgt	M63436
115027	aatcgggctacactgctgtcatctg	M63436
115028	gctacactgctgtcatctgaacttt	M63436
115029	acactgctgtcatctgaacttttac	M63436
115030	ctgctgtcatctgaacttttaccag	M63436
115031	cctccagtctctggagctctgcagg	W14673
115032	tccagtctctggagctctgcagggc	W14673
115033	tggggcaacttcttatgcagcctgt	W14673
115034	atgcagcctgttcttgtggctcagg	W14673
115035	gcagcctgttcttgtggctcagggg	W14673
115036	agcctgttcttgtggctcaggggac	W14673
115037	cctgttcttgtggctcaggggactc	W14673
115038	ttcttgtggctcaggggactccagg	W14673
115039	cttgtggctcaggggactccaggaa	W14673
115040	tgtggctcaggggactccaggaatg	W14673
115041	gactccaggaatggctcagggctca	W14673
115042	gaatggctcagggctcatgcccagg	W14673
115043	tgggtacaaacacttcattggccca	W14673
115044	aatggctcagggctcatgcccaggt	W14673
115045	ggtacaaacacttcattggcccaga	W14673
115046	caaacacttcattggcccagatggt	W14673
115047	aacacttcattggcccagatggtga	W14673
115048	cacttcattggcccagatggtgagc	W14673
115049	attggcccagatggtgagcggcctt	W14673
115050	tggcccagatggtgagcggccttgt	W14673
115051	tgagcggccttgtggggcaacttct	W14673
115052	agatcctgtcctctctaccatttcc	M86567
115053	tcctgtcctctctaccatttccaaa	M86567
115054	gttacttttgggctgtatagcaatg	M86567
115055	ttttgctttgtacagtctgactaat	M86567
115056	tgctttgtacagtctgactaataac	M86567
115057	gacccactatgtatagtatgtatat	M86567
115058	agcttacagtagacctctaaaggag	M86567
115059	cagtagacctctaaaggagacctgc	M86567
115060	acctctaaaggagacctgcatttgc	M86567

TABLE 1

SEQ ID NO	sequence	DBAxnID
29853	tggagttccaggctccattcctcta	W88213
29854	agttccaggctccattcctctagga	W88213
29855	aggctccattcctctaggaccctgt	W88213
29856	ttgactctcaggagagaatgttttg	U21110
29857	tgatgccttttaccactagagactt	U21110
29858	tccttgataccgatggggacttcga	U21110
29859	acttcgatctggaagacacgatgga	U21110
29860	gccggcccatggacagtcagtggat	U21110
29861	acagtcagtggatccctcacgcaca	U21110
29862	agtggatccctcacgcacagtcatg	U21110
29863	acgcacagtcatgaccagacctcac	U21110
29864	gcagcttcatcgccctcgtggagga	U21110
29865	tcatcgccctcgtggaggaacttcc	U21110
29866	taattccatgaatcgcttctctttg	U21110
29867	catgaatcgcttctctttggaaaca	U21110
29868	cttttaccactagagacttctctat	U21110
29869	cgcttctctttggaaacaatactcg	U21110
29870	gagacttctctatccggtccctcgc	U21110
29871	tgaattacctcatatatgtgtttcc	U21110
29872	acctcatatatgtgtttcctgatcg	U21110
29873	tgtttcctgatcggccaaaggatga	U21110
29874	cctgtgagcccgcaactgcgaaagc	U21110
29875	agcccgcaactgcgaaagcagctga	U21110
29876	tggtccccgagtttgcaaatgcatc	U21110
29877	caagctcatcaatgccattgagctc	AA073679
29878	catcaatgccattgagctcaagaaa	AA073679
29879	tgactggacacccaatgccaggttc	AA073679
29880	gacacccaatgccaggttcattata	AA073679
29881	gttcattatacgttcctggcttcga	AA073679
29882	cattatacgttcctggcttcgagat	AA073679
29883	tggcctcaagccacgatgcatcacc	AA073679
29884	caagccacgatgcatcaccagagac	AA073679
29885	gccacgatgcatcaccagagacctc	AA073679
29886	acgatgcatcaccagagacctcaaa	AA073679
29887	catcaccagagacctcaaatgggga	AA073679
29888	caccagagacctcaaatggggaacg	AA073679
29889	caagaaaccacagtgcaaaatctgc	AA073679
29890	gaaaccacagtgcaaaatctgccgc	AA073679
29891	gaggtcctcacagcacctgtttcta	AA073679
29892	ctcacagcacctgtttctagacttg	AA073679
29893	acagcacctgtttctagacttgcct	AA073679
29894	tctagacttgcctaagttggaaaag	AA073679
29895	gacagtgcctggcagtgactggaca	AA073679
29896	cagtgactggacacccaatgccagg	AA073679
29897	gttaagtccaagctgctgtaccacc	U37527
29898	aagtccaagctgctgtaccacctct	U37527
29899	atctcccaggccaggaaagccgtgg	U37527
29900	atggaagcctgcatggacagggtga	U37527
29901	aaggtctcccaggctgcctcagacc	U37527
29902	tcagacctcctggcctactgtgaag	U37527
29903	gacctcctggcctactgtgaagccc	U37527
29904	atcatcccagtgcctgcctcagaaa	U37527
29905	atcctctaacacccatggcgatgaa	U37527
29906	taacacccatggcgatgaagcgggc	U37527
29907	cacccatggcgatgaagcgggccct	U37527
29908	atgaagcgggccctttcctgctgta	U37527
29909	tccaagctgctgtaccacctctcag	U37527
29910	aagctgctgtaccacctctcagcag	U37527
29911	ctgctgtaccacctctcagcaggga	U37527
29912	cacctctcagcagggagtgcaggaa	U37527
29913	ctctcagcagggagtgcaggaatga	U37527
29914	atgtctaataacagcaccaccagca	U37527
29915	tctaataacagcaccaccagcatct	U37527
29916	agcatctcccaggccaggaaagccg	U37527
29917	gcttggccagaccagacctgggccc	L41631
29918	agggctgcccagacctggctgtttt	L41631
29919	cctcctaggagatgccagaggatag	L41631
29920	gagcgcctcactctgcactgttagc	L41631
72457	ttcacttttgccatcagtgtcaata	AA071775
72458	tcacttttgccatcagtgtcaatat	AA071775
72459	actttttgccatcagtgtcaatatct	AA071775
72460	cttttgccatcagtgtcaatatctg	AA071775
72461	tttgccatcagtgtcaatatctgct	AA071775
72462	agagctacagcagctgctgccacga	AA071775
72463	agctacagcagctgctgccacgatt	AA071775
72464	gctacagcagctgctgccacgattt	AA071775
72465	gagcctgaacttctggcctagggga	Z68889
72466	gaacttctggcctaggggacacaga	Z68889
72467	ctcttggacttaagcagcttgttaa	Z68889
72468	gcacatccagaggagcctggaagaa	Z68889
72469	catccagaggagcctggaagaaccg	Z68889
72470	gtttcagataccgttccacccagct	Z68889
72471	accgttccacccagctgtgctgctg	Z68889
72472	ggatccaatgtccttgcctggtctc	Z68889
72473	tccaatgtccttgcctggtctctgt	Z68889
72474	aatgtccttgcctggtctctgtgac	Z68889
72475	ctgtgaccaccaggcacaaatgtgc	Z68889
72476	ccaccaggcacaaatgtgcacagac	Z68889
72477	catcacagggttggcctgtagacct	Z68889
72478	atgatctttaagcatcttcttcgca	Z68889
72479	ttgttctcctggcttgtggacccag	Z68889
72480	tcctggcttgtggacccagcctttc	Z68889
72481	gtggacccagcctttcctgcgcagt	Z68889
72482	tttcctgcgcagttactcttggact	Z68889
72483	cctgcgcagttactcttggacttaa	Z68889
72484	cagttactcttggacttaagcagct	Z68889
72485	cagcctatttattcaaccgatagca	AA071788
72486	atttattcaaccgatagcactagca	AA071788
72487	attaatgcatctaatcggaggagct	AA071788
72488	aggagctactctagtacttatagac	AA071788
72489	agctactctagtacttatagacatc	AA071788
72490	tactctagtacttatagacatcagc	AA071788
72491	acttatagacatcagcccaccaacc	AA071788
72492	tatagacatcagcccaccaaccgct	AA071788
72493	tctacttcatacttacagtacttga	AA071788
72494	tcatacttacagtacttgaatttgc	AA071788
72495	tacttgaatttgccgtagccttaat	AA071788
72496	ttgccgtagccttaattcaagccta	AA071788
72497	tcaaccgatagcactagcagtacga	AA071788
72498	gccgtagccttaattcaagcctatg	AA071788
72499	accgatagcactagcagtacgacta	AA071788
72500	actagcagtacgactaacagcaaac	AA071788
72501	agcagtacgactaacagcaaacatt	AA071788
72502	actaacagcaaacattacagcaggc	AA071788
72503	aacagcaaacattacagcaggccat	AA071788
72504	agcaaacattacagcaggccatcta	AA071788
72505	ccatctattaatgcatctaatcgga	AA071788
72506	atcaccagtgtagaagctgttctct	Z36774
72507	gaagctgttctcttgcagcaggtgg	Z36774
72508	agactggccttggtgttatacttca	Z36774
72509	gtgttatacttcatggttggaggct	Z36774
72510	ggctgacctaccctacaagagtgtc	Z36774
72511	ctacaagagtgtcccttgctgaaga	Z36774
72512	caagagtgtcccttgctgaagacat	Z36774
72513	acctgtgtcctgtcacccaagtcac	Z36774
72514	cccctctggtatttggagatgccaa	Z36774
72515	gagatgccaacactgccaggagtct	Z36774
72516	agtgatttttatgccacctgaataa	Z36774
72517	gatttttatgccacctgaataaaga	Z36774
72518	tttgtgggctggcacttgtggacac	Z36774
72519	cacttgtggacacagttttggctag	Z36774
72520	catttgtaagcagaggctggagagg	Z36774
72521	tttagacatattccagacaccctgg	Z36774
72522	agacatattccagacaccctgggtg	Z36774
72523	tggtctcccaagcttagactggcct	Z36774
72524	tctcccaagcttagactggccttgg	Z36774
115061	gacctgcatttgctaactcatggaa	M86567
115062	catttgctaactcatggaaatacag	M86567
115063	ggcagaaaacatcccgtgccaaaag	M86567
115064	tgtcctctctaccatttccaaaagt	M86567
115065	taccatttccaaaagtgcaacgacg	M86567
115066	catttccaaaagtgcaacgacgcca	M86567
115067	tgcaacgacgccagaaccgaacaag	M86567
115068	gacgccagaaccgaacaagaagcca	M86567
115069	agagaacaagccagctgaagccaag	M86567
115070	gaacaagccagctgaagccaagaaa	M86567
115071	caagccagctgaagccaagaaaacc	M86567
115072	ctcgtgcgaatcggcaagtgccagt	AA020306
115073	tcgtgcgaatcggcaagtgccagtg	AA020306
115074	tgaagactcgtgtcagccgggagga	AA020306
115075	agtgctgtgcttccggcaacatcaa	AA020306
115076	gctgtgcttccggcaacatcaacac	AA020306
115077	gtgcttccggcaacatcaacaccgc	AA020306
115078	ttccggcaacatcaacaccgcctgg	AA020306
115079	gcaacatcaacaccgcctggtccaa	AA020306
115080	ccacccaggcaataaaatcagcctg	AA020306
115081	gcaataaaatcagcctgctagggtt	AA020306
115082	caataaaatcagcctgctagggttc	AA020306
115083	tcagcctgctagggttcctgggcct	AA020306
115084	cgaatcggcaagtgccagtgcgttc	AA020306
115085	tcggcaagtgccagtgcgttctggg	AA020306
115086	gcaagtgccagtgcgttctggggca	AA020306
115087	gttctggggcactgtggccgctgct	AA020306
115088	ttctggggcactgtggccgctgctt	AA020306
115089	cgctgctttggggagccctggtctg	AA020306
115090	tgctttggggagccctggtctggac	AA020306
115091	gctccagcagggcagagaggccacc	AA020306
115092	tttggtgtcaccactgttctcacca	M86568
115093	gtggcatacgcgacggccatggact	M86568
115094	gctgagaccaagacctacaacagtg	M86568
115095	atttcccgcatcatcttccctgtgc	M86568
115096	atcttccctgtgctctttgccatat	M86568
115097	cctgtgctctttgccatattcaatc	M86568
115098	ctctttgccatattcaatcttgtct	M86568
115099	gccatattcaatcttgtctattggg	M86568
115100	ttcaatcttgtctattgggctacat	M86568
115101	cttgtctattgggctacatatgtga	M86568
115102	atgatccgcaaacagtagataatag	M86568
115103	gtggcagcacagcttccagagcact	M86568
115104	tggttcatagccgtctgttatgcct	M86568
115105	gcacagcttccagagcactgtatac	M86568
115106	ttttcagcactgattgaatttgcta	M86568
115107	gtaccagaggccctggagatgaaga	M86568
115108	accacctatcctatcaatctggcca	M86568
115109	accatctccaagtctgctgctgctc	M86568
115110	tccaagtctgctgctgctcccagtg	M86568
115111	gcttcttcaactccaacagcgattg	M86568
115112	tcaactccaacagcgattgcttcac	M86568
115113	aaagttctgcttgacaagtccccat	L22355
115114	ctgcttgacaagtccccatcgttga	L22355
115115	tgactaggcagctaaccagtgtcac	L22355
115116	ctaggcagctaaccagtgtcacctt	L22355
115117	tttcaggtactactttctaattcat	L22355
115118	ctttctaattcatggtagaatggct	L22355
115119	taagtaattttctctacatggtact	L22355
115120	gtaattttctctacatggtactgta	L22355
115121	ttctctacatggtactgtacggtac	L22355
115122	cctgtttcttcattggggtcttgtg	L22355
115123	tcttcattggggtcttgtgtaatga	L22355
115124	tcattggggtcttgtgtaatgacta	L22355
115125	gacaagtccccatcgttgaagtgac	L22355
115126	tccccatcgttgaagtgactggaat	L22355
115127	tggtcccatgatgtgtatgtaaata	L22355
115128	agagtagcagcactccatatgcagg	L22355

TABLE 1

SEQ ID NO	sequence	DBAxnID
29921	ctcactctgcactgttagcaggatg	L41631
29922	ttcaacactcacatccgtgatccgg	L41631
29923	actcacatccgtgatccgggaagag	L41631
29924	atccgtgatccgggaagagaagcaa	L41631
29925	catcatccctgtcaggtttcccaga	L41631
29926	ccctgtcaggtttcccagatgccat	L41631
29927	caggtttcccagatgccatgccgcc	L41631
29928	cacaccagcttggaaccatgggggga	L41631
29929	gcccagacctggctgttttcttgcc	L41631
29930	ctgttttcttgcctgtggctgaaga	L41631
29931	tcttgcctgtggctgaagaggctgc	L41631
29932	agaccgactatctagctacatggag	L41631
29933	tttccaggccacaaacattccagag	L41631
29934	ggccacaaacattccagagacatct	L41631
29935	tccagagacatctccttcatatacc	L41631
29936	gtggcttacagttctgggatgaacc	L41631
29937	gtctaatcagtcctgtgtcgtgctc	W89358
29938	tctaatcagtcctgtgtcgtgctcc	W89358
29939	atgagctgcgacttgcacagtgctt	W89358
29940	tgagctgcgacttgcacagtgcttg	W89358
29941	gctgcgacttgcacagtgcttggta	W89358
29942	tgcgacttgcacagtgcttggtagc	W89358
29943	gcgacttgcacagtgcttggtagct	W89358
29944	cgacttgcacagtgcttggtagctt	W89358
29945	gacttgcacagtgcttggtagcttg	W89358
29946	cttgcacagtgcttggtagcttgat	W89358
29947	ttgcacagtgcttggtagcttgatg	W89358
29948	tgcacagtgcttggtagcttgatga	W89358
29949	ctaatcagtcctgtgtcgtgctccc	W89358
29950	taatcagtcctgtgtcgtgctccct	W89358
29951	aatcagtcctgtgtcgtgctccctc	W89358
29952	gacatcgacacaggaggcaagtcta	W89358
29953	acatcgacacaggaggcaagtctac	W89358
29954	catcgacacaggaggcaagtctact	W89358
29955	agcatgagctgcgacttgcacagtg	W89358
29956	catgagctgcgacttgcacagtgct	W89358
29957	tagacggaggccactacacagccta	W89238
29958	acggaggccactacacagcctactg	W89238
29959	ctgtgtcttcggttaggtcatcagc	W89238
29960	tgtcttcggttaggtcatcagcagc	W89238
29961	ggtcatcagcagcttatatcctctt	W89238
29962	cagcagcttatatcctcttgtatac	W89238
29963	cagcttatatcctcttgtatacttc	W89238
29964	tcttgtatacttccctgggaccacg	W89238
29965	tgtatacttccctgggaccacgcat	W89238
29966	cttccctgggaccacgcatagctga	W89238
29967	ccctgggaccacgcatagctgatgt	W89238
29968	tgggaccacgcatagctgatgtagc	W89238
29969	gaggccactacacagcctactgtaa	W89238
29970	accacgcatagctgatgtagccaca	W89238
29971	actacacagcctactgtaagaacgc	W89238
29972	acacagcctactgtaagaacgcgtc	W89238
29973	cagcctactgtaagaacgcgtcaag	W89238
29974	cgtcaaggcagcgctggtttaaatg	W89238
29975	atgaccatttagtttcggatatctc	W89238
29976	tagtttcggatatctctgtgtcttc	W89238
29977	cggatatctctgtgtcttcggttag	W89238
29978	cagtggctccattacaccaaggaca	D50411
29979	cgatttgccttcctctcctgccaat	D50411
29980	caggaccatagcacagagcaacctc	D50411
29981	cacaccttgaatctatcccacagca	D50411
29982	cacagcatatcaacccacagtgacc	D50411
29983	gcaacctgaatttcccaatggcacc	D50411
29984	tcccaatggcacctattgctttgaa	D50411
29985	ctattgctttgaaactctgatgagt	D50411
29986	agccccatgctcagatccactgggc	D50411
29987	ggactccttgcaggagacatgggca	D50411
29988	tttccatgccttttgtggagtacag	D50411

SEQ ID NO	sequence	DBAxnID
72525	cttagactggccttggtgttatact	Z36774
72526	caaatcatgtagtcactcaatgcca	Z31663
72527	tcactcaatgccacaactcaaactg	Z31663
72528	cgtagcagtcctgagccacaccatc	Z31663
72529	caccatccttctcatggacatccgg	Z31663
72530	catggacatccggaggactgcccct	Z31663
72531	tgcccctagagacacaacctgctgc	Z31663
72532	tagagacacaacctgctgcctgtct	Z31663
72533	cacaacctgctgcctgtctgtccag	Z31663
72534	cctgtctgtccagccaagtgcgcat	Z31663
72535	tgtccagccaagtgcgcatgtgccg	Z31663
72536	tgtgtacacttaacctgcttgagct	Z31663
72537	cacttaacctgcttgagcttctgtg	Z31663
72538	aatgccacaactcaaactgcttcag	Z31663
72539	caaactgcttcagtgggaagtacag	Z31663
72540	agtacagagacccagtgcattgcgt	Z31663
72541	gagacccagtgcattgcgtgtgcag	Z31663
72542	cagtgcattgcgtgtgcaggagcgt	Z31663
72543	catacctgtggtccactgggctgc	Z31663
72544	ttgtggtccactgggctgcaggttt	Z31663
72545	ttcctccagggaccagtcaactggc	Z31663
72546	ggtgcaaactccctgcgaatgtgcc	X85990
72547	cattctgtggcagcagattcacgtc	X85990
72548	gttatggctgggccacactgaggtc	X85990
72549	ccacactgaggtccttgggccaaca	X85990
72550	tgaggtccttgggccaacagagaca	X85990
72551	cataggccctggccaaagggtagct	X85990
72552	agcctcaaagagtggcctaagctca	X85990
72553	tggcctaagctcaattcaggatcta	X85990
72554	aagctcaattcaggatctaaccagg	X85990
72555	gggttccagagtggaccaggaccag	X85990
72556	agtggaccaggaccagagagttgtc	X85990
72557	gcagcaagcgcaagctgtgaacaga	X85990
72558	gcagattcacgtcgtaagggtcgca	X85990
72559	tcacgtcgtaagggtcgcaacagac	X85990
72560	catgtctctgagctccgtgctgagc	X85990
72561	cgtggaccacgtagtgcagctcact	X85990
72562	ccacgtagtgcagctcactggtgac	X85990
72563	gctcactggtgactcggctgtcccc	X85990
72564	tgtccccacaatgggacgaggctga	X85990
72565	acactccaaagaggggcagacagat	X85990
72566	aaacctcggggatactgtctgatca	AA071802
72567	tactgtctgatcatcaacaatcatg	AA071802
72568	gtatcttacgacgactgcactgcaa	AA071802
72569	tcttacgacgactgcactgcaaatg	AA071802
72570	tacgacgactgcactgcaaatgaaa	AA071802
72571	gacgactgcactgcaaatgaaatcc	AA071802
72572	attctagaaggctaccaaagcgcag	AA071802
72573	gaaggctaccaaagcgcagaccaca	AA071802
72574	ggctaccaaagcgcagaccacaaga	AA071802
72575	taccaaagcgcagaccacaagaaca	AA071802
72576	agcgcagaccacaagaacaaagact	AA071802
72577	gcagaccacaagaacaaagactgct	AA071802
72578	tgtctgatcatcaacaatcatgatt	AA071802
72579	ctgatcatcaacaatcatgatttca	AA071802
72580	atcatcaacaatcatgatttcagca	AA071802
72581	atcaacaatcatgatttcagcaagg	AA071802
72582	catgatttcagcaaggcccgggaag	AA071802
72583	gatttcagcaaggcccgggaagaca	AA071802
72584	ttcagcaaggcccgggaagacataa	AA071802
72585	atagtatcttacgacgactgcactg	AA071802
72586	caagagccctgcctgtaacaaacgt	X85991
72587	ccctgcctgtaacaaacgtgctcca	X85991
72588	gctgctgctttgaacaccagcccac	X85991
72589	ttcccaagagtctctatggagttgg	X85991
72590	tcctttaccagtcgggccatactgt	X85991
72591	cgggccatactgtttgggaagtcat	X85991
72592	aagtcatctctgaagtctaaccacc	X85991

SEQ ID NO	sequence	DBAxnID
115129	gtagcagcactccatatgcaggtca	L22355
115130	gcactccatatgcaggtcagaacgt	L22355
115131	gttgcttggactgactgttgtaact	L22355
115132	tgtaacttaatgcttcttagaaaag	L22355
115133	tctcagctgctggggtcagtcagga	M60596
115134	tcatgggttcctataggtctgtgga	M60596
115135	cggcgtacaccatgtgacggcagtg	M60596
115136	ttgccacaaactcctggaggccctc	M60596
115137	tttactcaactttgctctaaagacg	M60596
115138	tgctctaaagacgagcctgcacttc	M60596
115139	gagcctgcacttcttgtagatggaa	M60596
115140	gtcatagctgctgactgagtgagct	M60596
115141	tgctgggctgagctgtgagtttaga	M60596
115142	gtctgatttctagctttctctgtgg	M60596
115143	tttctagctttctctgtggatcaag	M60596
115144	gctttctctgtggatcaagatcaga	M60596
115145	gttcctataggtctgtggaagtgga	M60596
115146	gaatccgttccagactcaaacccat	M60596
115147	gactcaaacccatcgatgcagacac	M60596
115148	aacccatcgatgcagacaccatcga	M60596
115149	cagacaccatcgacatctatgcccg	M60596
115150	tcttcccggcagcttttgcagcggt	M60596
115151	cttttgcagcggtcaacatcatcta	M60596
115152	cagcggtcaacatcatctactgggc	M60596
115153	taaatactctgcacttgttaggaac	W54565
115154	aatactctgcacttgttaggaacac	W54565
115155	tccttctttgagccagacgccaact	W54565
115156	cttctttgagccagacgccaacttg	W54565
115157	tctttgagccagacgccaacttgac	W54565
115158	tttgagccagacgccaacttgaccc	W54565
115159	tgagccagacgccaacttgaccctc	W54565
115160	cattaatcaggagcgcgctcagcaa	W54565
115161	ttaatcaggagcgcgctcagcaagc	W54565
115162	aatcaggagcgcgctcagcaagctt	W54565
115163	gagcgcgctcagcaagcttggtagt	W54565
115164	gcgcgctcagcaagcttggtagttt	W54565
115165	tactctgcacttgttaggaacacgc	W54565
115166	ctctgcacttgttaggaacacgcat	W54565
115167	taggaacacgcatatcccttctttg	W54565
115168	ggaacacgcatatcccttctttgtt	W54565
115169	aacacgcatatcccttctttgttga	W54565
115170	cacgcatatcccttctttgttgagt	W54565
115171	cgcatatcccttctttgttgagttt	W54565
115172	ggtccttctttgagccagacgccaa	W54565
115173	ccgccttttgcttgttcaatcttgt	M62374
115174	tgttcaatcttgtttactgggtctc	M62374
115175	tcatactatccatgcccaatccgtg	M62374
115176	tgcccaatccgtggttattgtaatt	M62374
115177	ttgaatttcagcgtgcactgtcctt	M62374
115178	ttcagcgtgcactgtccttcaaacc	M62374
115179	gtgcactgtccttcaaacctgcaag	M62374
115180	tcaaacctgcaaggcaaagtaaagt	M62374
115181	ctgttacactgagcaagatacctttt	M62374
115182	tgtgtactatgttcacttgggatca	M62374
115183	ctatgttcacttgggatcaagttgt	M62374
115184	acctcccgtatctgtgaagaatcac	M62374
115185	atcttgtttactgggtctcctatct	M62374
115186	gggtctcctatctttatctgtaaag	M62374
115187	gtgttattcgctgaatcttatggag	M62374
115188	gacaaaatgcactttctaagtccaa	M62374
115189	atgcactttctaagtccaacgatat	M62374
115190	agtccaacgatataatcccctatgt	M62374
115191	cctatgtggtcaccgaatgtgtttc	M62374
115192	ctctgtctcaacgtagtaatacata	M62374
115193	gaagcgtcttcgaagactcatcaca	M97632
115194	tcttcgaagactcatcacaccagac	M97632
115195	ctgggagccactcttctgttcagct	M97632
115196	agcttgtcacctctcagtcctttcc	M97632

TABLE 1

SEQ ID NO	sequence	DBAxnID
29989	tgccttttgtggagtacagacatat	D50411
29990	ctctcctgccaatcacaagtgcctt	D50411
29991	tgccaatcacaagtgccttactctg	D50411
29992	gaccagacccatgacaaaacctctg	D50411
29993	acctctgtcatccaagagagccaac	D50411
29994	gtcatccaagagagccaactctcta	D50411
29995	acttcaagccaatgtggtaactgct	D50411
29996	tccaaccttcaccaggaccatagca	D50411
29997	cttcaccaggaccatagcacagagc	D50411
29998	ccaaccacacggagcagcaagcact	W89394
29999	caaccacacggagcagcaagcacta	W89394
30000	gagccccgagaatgccagagctcag	W89394
30001	agccccgagaatgccagagctcagc	W89394
30002	agaatgccagagctcagccagcaga	W89394
30003	gaatgccagagctcagccagcagat	W89394
30004	aatgccagagctcagccagcagatg	W89394
30005	tgccagagctcagccagcagatgta	W89394
30006	gccagagctcagccagcagatgtat	W89394
30007	agagctcagccagcagatgtatgct	W89394
30008	agctcagccagcagatgtatgctga	W89394
30009	ctcagccagcagatgtatgctgaca	W89394
30010	aaccacacggagcagcaagcactaa	W89394
30011	ccacacggagcagcaagcactaacg	W89394
30012	cacacggagcagcaagcactaacga	W89394
30013	agcagcaagcactaacgagccccga	W89394
30014	gcagcaagcactaacgagccccgag	W89394
30015	cagcaagcactaacgagccccgaga	W89394
30016	gcaagcactaacgagccccgagaat	W89394
30017	taacgagccccgagaatgccagagc	W89394
30018	gcatatccacgggcaaccaggcgag	D17573
30019	tctggtgcaaccggcttgctatgaa	D17573
30020	cccgcatgaggtgtatgctgaatga	D17573
30021	acaacgtgctaagcctggctaagag	D17573
30022	aggtgatccttcgatggagccaaga	D17573
30023	agtttagcactttggctataggcca	D17573
30024	gcactttggctataggccagtttgg	D17573
30025	accttgctccatcgctctcagacta	D17573
30026	cgctctcagactacatctgtcagtt	D17573
30027	cagactacatctgtcagttggcttc	D17573
30028	acatctgtcagttggcttccaggcc	D17573
30029	acagtcccagagaggtgcatgatgg	D17573
30030	gcaaccggcttgctatgaagggctg	D17573
30031	gagctccgagtgccttgaagattac	D17573
30032	atgaccgagtctccaactggctcaa	D17573
30033	gagtctccaactggctcaaagctga	D17573
30034	ggctcaaagctgagttccttagctt	D17573
30035	ccttcaaaagccagcagtgcctgct	D17573
30036	aaagccagcagtgcctgctgagaaa	D17573
30037	agcagtgcctgctgagaaaccagaa	D17573
30038	agatgtcccgcatgaggtgtatgct	D17573
30039	tcgcgcttcaggccatgcttttcac	W89475
30040	gcgcttcaggccatgcttttcacat	W89475
30041	catgattcgcagccctcggtctaag	W89475
30042	attcgcagccctcggtctaagagaa	W89475
30043	tcgcagccctcggtctaagagaatc	W89475
30044	gcagccctcggtctaagagaatctg	W89475
30045	agccctcggtctaagagaatctgtg	W89475
30046	agacgcattctcatgagtgctgagg	W89475
30047	acgcattctcatgagtgctgaggtc	W89475
30048	gcattctcatgagtgctgaggtctt	W89475
30049	attctcatgagtgctgaggtcttag	W89475
30050	tctcatgagtgctgaggtcttagag	W89475
30051	gcttcaggccatgcttttcacatga	W89475
30052	caggccatgcttttcacatgattcg	W89475
30053	ggccatgcttttcacatgattcgca	W89475
30054	ccatgcttttcacatgattcgcagc	W89475
30055	atgcttttcacatgattcgcagccc	W89475
30056	gcttttcacatgattcgcagccctc	W89475
72593	tctctgaagtctaaccaccttcctt	X85991
72594	tcttggttcagtttggacagattgt	X85991
72595	ttattattgtctctgccctggctag	X85991
72596	ttgtctctgccctggctagaatggg	X85991
72597	gttcccttgtccagtgtggctgacc	X85991
72598	ctgtaacaaacgtgctccaggagac	X85991
72599	caaacctaagcatccgagcaagctg	X85991
72600	tccgagcaagctggggctattcctg	X85991
72601	caagctggggctattcctgcaaact	X85991
72602	ggggctattcctgcaaactccatcc	X85991
72603	tccatcctgaacgctgtcactctag	X85991
72604	ctgaacgctgtcactctagaagcag	X85991
72605	gctgtcactctagaagcagctgctg	X85991
72606	ctatggattacagccaccaagcaag	AA071853
72607	tggattacagccaccaagcaagggg	AA071853
72608	aggccttcagtttatgccttctact	AA071853
72609	ccttcagtttatgccttctactccg	AA071853
72610	tcagtttatgccttctactccgagc	AA071853
72611	gccttctactccgagcagcctgatt	AA071853
72612	tccgagcagcctgatttttctggac	AA071853
72613	cagcctgatttttctggacacaagt	AA071853
72614	tacggccctttggccctgagatga	AA071853
72615	tttggccctgagatgacaaatcctc	AA071853
72616	atgacaaatcctctgagggagattg	AA071853
72617	gacaagaccgtggggcagttaatgg	AA071853
72618	attacagccaccaagcaaggggtga	AA071853
72619	acattctttggtctgtgagcatcc	AA071853
72620	tggtctgtgagcatccctcacgagc	AA071853
72621	tctgtgagcatccctcacgagcgga	AA071853
72622	atccctcacgagcggagaatcctaa	AA071853
72623	cctcacgagcggagaatcctaacta	AA071853
72624	actatccttcagtggctttccctgc	AA071853
72625	ctttccctgccagacaatgagaggc	AA071853
72626	tgacaatcctgaccaaaacacagag	D28577
72627	tcctgaccaaaacacagaggattat	D28577
72628	taatgaaccagtccagctcactcca	D28577
72629	ccagctcactccagatgatgatgac	D28577
72630	cctcttgatgtctgcagaagagtgt	D28577
72631	attctgcttgccgccattcagtgca	D28577
72632	cttgccgccattcagtgcatggata	D28577
72633	ccgtcagcctgctcacagttagcat	D28577
72634	gcctgctcacagttagcattttatg	D28577
72635	gttgcccctgcagaagtcgctctcg	D28577
72636	cctgcagaagtcgctctcggtatcc	D28577
72637	acagaagctagcttcctgacaatca	D28577
72638	ggattatctattccaagtcattttg	D28577
72639	ctagcttcctgacaatcatgtcgac	D28577
72640	tctattccaagtcattttggaaaag	D28577
72641	gcagatccgcatcccgcgttctctg	D28577
72642	cccgcgttctctgtctgtaaaagca	D28577
72643	ttctctgtctgtaaaagcagcaagt	D28577
72644	tcaccctcaaactggatttgctgac	D28577
72645	aggacatccattcttcagaaatgtg	D28577
72646	tccattcttcagaaatgtggactgg	D28577
72647	acacatcacgagtgagtgcaccggc	X85992
72648	atgaattcctggtgatgtgtactct	X85992
72649	ttgaccaccgaggctaccaggctct	X85992
72650	accgaggctaccaggctctgtcgga	X85992
72651	gctaccaggctctgtcggatagctc	X85992
72652	atagctccccagggcccagagtctt	X85992
72653	ggccactgagcatccaggacagctt	X85992
72654	tccaggacagctttgtagaggtgtc	X85992
72655	cccgagttcgactgggctctgagat	X85992
72656	ttcgactgggctctgagatccgaga	X85992
72657	ctgagatccgagactctgtggtatg	X85992
72658	tggtcaccctgacctcagggttgtg	X85992
72659	tgtttctgttctttctctaccgaca	X85992
72660	ttctctaccgacatcgggatggcat	X85992
115197	cctttccaagtgagctctaggaagc	M97632
115198	ttgaactcaacatcttgactttctg	M97632
115199	attttcaaggtcacacagcctgtca	M97632
115200	aaggtcacacagcctgtcagagccc	M97632
115201	cctgtcagagccctagaccttcctt	M97632
115202	ctagaccttccttgaacttgctgct	M97632
115203	tgcagcagctaacaagcctgcatgg	M97632
115204	agctaacaagcctgcatggatcacc	M97632
115205	accacaggatggctcctctgctcaa	M97632
115206	aagcctgcatggatcacctgctgtg	M97632
115207	tgctcaaaactgttcgtcctctcca	M97632
115208	acaagaactcattgcctgggagaag	M97632
115209	actcattgcctgggagaaggagact	M97632
115210	actccagagccaggaacctggtcaa	M97632
115211	gagccaggaacctggtcaaggctag	M97632
115212	cctgccagtcttctgggagccactc	M97632
115213	agtcttctgggagccactcttctgt	M97632
115214	ggctacctgggcactaggtgcgagt	W14823
115215	gaaccagagcgggtaccagaacctg	W14823
115216	gtgtgacagcttttcctgtgccaga	W14823
115217	gtgacagcttttcctgtgccagaaa	W14823
115218	gacagcttttcctgtgccagaaaca	W14823
115219	cagcttttcctgtgccagaaacaag	W14823
115220	ttttcctgtgccagaaacaagggcg	W14823
115221	cctatgctcaggccatggagagtgt	W14823
115222	tgctcaggccatggagagtgtcact	W14823
115223	atgcaaatgccacgcaggttacatt	W14823
115224	gcaaatgccacgcaggttacattgg	W14823
115225	aaatgccacgcaggttacattgggg	W14823
115226	gtaccagaacctgtgccgggacagg	W14823
115227	atgccacgcaggttacattggggac	W14823
115228	gagtgtagctgcaaccagtgctact	W14823
115229	gtgtagctgcaaccagtgctactcg	W14823
115230	gtagctgcaaccagtgctactcgct	W14823
115231	gcaaccagtgctactcgctacgaga	W14823
115232	aaccagtgctactcgctacgagagt	W14823
115233	actcgctacgagagtgatgttcggg	W14823
115234	atctacggacctttctgcgagtgtg	W14823
115235	aagccctttaggatgagggcaggag	M92378
115236	ggtctccttcttgctgctcggtgtt	M92378
115237	tcagtttttgccagagggaagaaga	M92378
115238	ttattctcagaacaccaagtaaatt	M92378
115239	aatatatgcctattcagactatata	M92378
115240	atatgcctattcagactatatacag	M92378
115241	tgcctattcagactatatacagagc	M92378
115242	aattatctgttctatggaccaaatg	M92378
115243	tatctgttctatggaccaaatgtaa	M92378
115244	ggaatcacagctagaacacgggcgt	M92378
115245	atcacagctagaacacgggcgtcat	M92378
115246	acagctagaacacgggcgtcatgta	M92378
115247	ctccttcttgctgctcggtgttctt	M92378
115248	gctcggtgttctttgatgtgaaact	M92378
115249	tgtttgtaagcacctctgagatgtt	M92378
115250	taagcacctctgagatgtttggcaa	M92378
115251	gcacctctgagatgtttggcaagaa	M92378
115252	cctctgagatgtttggcaagaaatc	M92378
115253	ttggcaagaaatcccctgatttcca	M92378
115254	taccttatagagcacaacgttaaag	M92378
115255	aggcctcagttctcagtgactatgg	W14832
115256	gaccccagcaagcaggacatcctgg	W14832
115257	tgtttctctgcattgactgctctgg	W14832
115258	ttctctgcattgactgctctggatc	W14832
115259	tctgcattgactgctctggatcaca	W14832
115260	ttgactgctctggatcacaccggtc	W14832
115261	actgctctggatcacaccggtcgct	W14832
115262	tgagttttattcggtccacagagct	W14832
115263	ttcggtccacagagctggattcaaa	W14832
115264	actggtcgtggttccagcttcgatg	W14832

TABLE 1

SEQ ID NO	sequence	DBAxnID
30057	ttttcacatgattcgcagccctcgg	W89475
30058	cacatgattcgcagccctcggtcta	W89475
30059	ctgcttctgacccaagatggcctcg	D78135
30060	ctgacccaagatggcctcgtgacta	D78135
30061	ggcacatgtctcaagcccatgggga	D78135
30062	aagcccatggggagcatagcagtcc	D78135
30063	ttttaccgaagacatgcatactcca	D78135
30064	catgcatactccatcgatgttgtat	D78135
30065	tactccatcgatgttgtattcacag	D78135
30066	gttgtattcacagtggctgaggaat	D78135
30067	ttcacagtggctgaggaattcttgt	D78135
30068	tacgcagtttctttggcttcacgtt	D78135
30069	ttggcttcacgttgccgattaaaag	D78135
30070	tcacgttgccgattaaaagaccgtg	D78135
30071	caagatggcctcgtgactagacctg	D78135
30072	cacttcagattttactgtttaccat	D78135
30073	agattttactgtttaccatgagcca	D78135
30074	tactgtttaccatgagccatgggtt	D78135
30075	tttgtgtggtcgcccctgaagtctg	D78135
30076	ttgagcaagccatggccctccagct	D78135
30077	agcaggtcctgcccatcgggcacat	D78135
30078	ccatcgggcacatgtctcaagccca	D78135
30079	cagagagcccagagatccccaacgc	W89542
30080	gagagcccagagatccccaacgccg	W89542
30081	taagtggcagcccggatgacctcac	W89542
30082	ggcagcccggatgacctcacatagg	W89542
30083	gcagcccggatgacctcacataggc	W89542
30084	agcccggatgacctcacataggcgg	W89542
30085	gatgacctcacataggcggcgccac	W89542
30086	atgacctcacataggcggcgccacc	W89542
30087	ctcacataggcggcgccaccgctgg	W89542
30088	gcgccaccgctgggaacaagaagga	W89542
30089	cgccaccgctgggaacaagaaggat	W89542
30090	ccaccgctgggaacaagaaggatat	W89542
30091	gccgccgaactagatcacaacacac	W89542
30092	acaacacacccggaaggagccacag	W89542
30093	acgccaggcccggatccacaggcaa	W89542
30094	cgccaggcccggatccacaggcaaa	W89542
30095	caggcccggatccacaggcaaaggc	W89542
30096	ggcccggatccacaggcaaaggcgc	W89542
30097	gatccacaggcaaaggcgcgagtaa	W89542
30098	ccacaggcaaaggcgcgagtaagtg	W89542
30099	tagtttttctggtggactgtgcgga	L20294
30100	tttttctggtggactgtgcggatca	L20294
30101	ccaacgtgccaattcttatcttggg	L20294
30102	tgccaattcttatcttgggaaacaa	L20294
30103	aagtattcatgtgcagtgtgctcaa	L20294
30104	tattcatgtgcagtgtgctcaagag	L20294
30105	tcatgtgcagtgtgctcaagaggca	L20294
30106	tgtgcagtgtgctcaagaggcaagg	L20294
30107	tccgctggctttcccagtatattga	L20294
30108	gctggctttcccagtatattgactg	L20294
30109	ggctttcccagtatattgactgatg	L20294
30110	tttcccagtatattgactgatgttt	L20294
30111	actgtgcggatcattctcgtctcat	L20294
30112	cggatcattctcgtctcatggaatc	L20294
30113	atcattctcgtctcatggaatccaa	L20294
30114	attctcgtctcatggaatccaaagt	L20294
30115	ctcgtctcatggaatccaaagttga	L20294
30116	atgaaacaatatccaacgtgccaat	L20294
30117	caatatccaacgtgccaattcttat	L20294
30118	tatccaacgtgccaattcttatctt	L20294
30119	ctgcaatgcttccaggagcaagaaa	D38517
30120	agccagcaacagttctgaaacctgg	D38517
30121	tcccaaaaacttatgtcaaatatgag	D38517
30122	ctcttttccagcagcatagatttga	D38517
30123	aacctctactgccatggaaccgaat	D38517
30124	tgatccaaaaccaaaatgcagcctt	D38517

SEQ ID NO	sequence	DBAxnID
72661	atggcatgaaactcttcctaaagca	X85992
72662	tgaaactcttcctaaagcagggcga	X85992
72663	tgcaccccaagactcgccctatagt	X85992
72664	ctcgccctatagtgctaccacctga	X85992
72665	cacctgagacccgaccgctgaatgg	X85992
72666	gaccgctgaatggtgtcggccctcc	X85992
72667	ctcccaagtctccacaggcatctat	X85994
72668	agtctccacaggcatctatcaagtg	X85994
72669	gcttcaaacagaccatagccaagat	X85994
72670	ccatagccaagatcaacttcaaagt	X85994
72671	ccccgtggacatgggctggctctgt	X85994
72672	tcagccactcggaaatgcagctcat	X85994
72673	agctcatcaatcagtactgcaaaga	X85994
72674	agtactgcaaagacacccggcagca	X85994
72675	gcaaagacacccggcagcagcagca	X85994
72676	ggaatcagcttccagagtcataaaa	X85994
72677	ttgcttccaggaacaaatgctctgt	X85994
72678	gctctgtcttcactagtcaactatt	X85994
72679	cacaggcatctatcaagtggttgct	X85994
72680	cccaaggactactgattcgctctgt	X85994
72681	gactactgattcgctctgttcaaga	X85994
72682	tgattcgctctgttcaagattctga	X85994
72683	accaaggactctaccactgcattgc	X85994
72684	gactctaccactgcattgccactga	X85994
72685	gcattgccactgagaacagcttcaa	X85994
72686	agaacagcttcaaacagaccatagc	X85994
72687	cagacagttacttcacactctggct	AA071917
72688	gttacttcacactctggctgaatct	AA071917
72689	tttacaacagaacatctcggaatac	AA071917
72690	acaacagaacatctcggaataccca	AA071917
72691	catctcggaatacccagtttcctga	AA071917
72692	ggaatacccagtttcctgatggtgt	AA071917
72693	atacccagtttcctgatggtgtaga	AA071917
72694	agtttcctgatggtgtagatgtgcg	AA071917
72695	atgtgcgtgatcctgactttgggga	AA071917
72696	tgcgtgatcctgactttggggaaac	AA071917
72697	gtgatcctgactttggggaaacatt	AA071917
72698	ctctggaattcctagacccaagcaa	AA071917
72699	cactctggctgaatcttgaactgct	AA071917
72700	tctggaattcctagacccaagcaaa	AA071917
72701	tgaatcttgaactgctcctgacagt	AA071917
72702	atcttgaactgctcctgacagttat	AA071917
72703	ttgaactgctcctgacagttatcat	AA071917
72704	tgctcctgacagttatcattgactg	AA071917
72705	cagttatcattgactgctggattga	AA071917
72706	tcattgactgctggattgacaatat	AA071917
72707	atatcaggctggtttacaacagaac	AA071917
72708	gcatgacttcacttcacagatcttc	U61362
72709	gacttcacttcacagatcttctctt	U61362
72710	ctaaagtttgcttattgtggcaaat	U61362
72711	ggaaaagataacctcctcaatgctt	U61362
72712	agataacctcctcaatgcttggcgg	U61362
72713	gataacctcctcaatgcttggcgga	U61362
72714	cctcaatgcttggcggacccccta t	U61362
72715	caatgcttggcggacccccta tgga	U61362
72716	gcggacccccta tggagccagcata	U61362
72717	cggacccccta tggagccagcatat	U61362
72718	agtcatctactgaaaacattatgtg	U61362
72719	gtcatctactgaaaacattatgtgg	U61362
72720	cttcacttcacagatcttctctttg	U61362
72721	tcatctactgaaaacattatgtggt	U61362
72722	ttcacttcacagatcttctctttgg	U61362
72723	cacttcacagatcttctctttggga	U61362
72724	acttcacagatcttctctttgggat	U61362
72725	ttcacagatcttctctttgggatac	U61362
72726	acagatcttctctttgggatactgc	U61362
72727	atcttctctttgggatactgcccaa	U61362
72728	tctgcatgtgaacaagcctgacaag	U61362

SEQ ID NO	sequence	DBAxnID
115265	cgtggttccagcttcgatgcatgca	W14832
115266	agcttcgatgcatgcaagttggagg	W14832
115267	cccagcaagcaggacatcctggcca	W14832
115268	caggacatcctggccatcttcaagc	W14832
115269	gacatcctggccatcttcaagcgcc	W14832
115270	ctggccatcttcaagcgcctgcgtc	W14832
115271	atcttcaagcgcctgcgtcggtgcc	W14832
115272	tgtgttttgactgtggtgccaaaaa	W14832
115273	atcccagctgggccagcataagcta	W14832
115274	ccagcataagctatggggtgtttct	W14832
115275	cgccaaaccttagacctcatcattg	W14842
115276	ttagacctcatcattggcatcttct	W14842
115277	gacctttggcttgcactcgactatg	W14842
115278	cttgcactcgactatgtagccagca	W14842
115279	gtcatgaaccttctggtgattagct	W14842
115280	atgaaccttctggtgattagctttg	W14842
115281	gatcgttacttttccatcacaagac	W14842
115282	ttttccatcacaagaccactgacat	W14842
115283	atcacaagaccactgacataccgag	W14842
115284	agaccactgacataccgagccaagc	W14842
115285	ccactgacataccgagccaagcgta	W14842
115286	cgtaccccaaagagggctggcatca	W14842
115287	tccatgaacctctacacgacctaca	W14842
115288	atgaacctctacacgacctacatcc	W14842
115289	acgacctacatcctcatgggacgct	W14842
115290	tacatcctcatgggacgctgggttc	W14842
115291	ctcatgggacgctgggttctcggga	W14842
115292	cgctgggttctcgggagtctggcct	W14842
115293	gcctgtgacctttggcttgcactcg	W14842
115294	tgtgacctttggcttgcactcgact	W14842
115295	atgaccctcagcagctcctgctgga	M55253
115296	ctcagcagctcctgctggactccaa	M55253
115297	atgtgctgtcagccgagagaatgct	M55253
115298	atattccagcgtagatcaaaccatg	M55253
115299	agatcaaaccatgttagagactggc	M55253
115300	ggtgcacagttgtcgccaatgctgc	M55253
115301	cagttgtcgccaatgctgctcagaa	M55253
115302	gtcagaacgaacagccactctgcag	M55253
115303	acgaacagccactctgcagctccag	M55253
115304	tctgcagctccagtcgccatataaa	M55253
115305	aaatgccagttctacagagtggaag	M55253
115306	gtgcctagctttgatctttgtatat	M55253
115307	tgctggactccaagcacgtgttccc	M55253
115308	tgttcccagttctgtttccatataa	M55253
115309	tgtttccatataacccatctgctct	M55253
115310	catataacccatctgctctgaccat	M55253
115311	tggactcgatccacatcccggcctg	M55253
115312	acatcccggcctgtctcaacctgga	M55253
115313	cggcctgtctcaacctggagtttct	M55253
115314	agtttctcaatgaagtctgaggatg	M55253
115315	gtgccaagctcgcagaaggcgctgc	W41072
115316	tgccaagctcgcagaaggcgctgct	W41072
115317	ccttccggttcctcaccaagatgtg	W41072
115318	cttccggttcctcaccaagatgtgg	W41072
115319	tccggttcctcaccaagatgtggca	W41072
115320	ccggttcctcaccaagatgtggcac	W41072
115321	cggttcctcaccaagatgtggcacc	W41072
115322	gttcctcaccaagatgtggcaccca	W41072
115323	ttcctcaccaagatgtggcacccaa	W41072
115324	tcctcaccaagatgtggcacccaaa	W41072
115325	ctcaccaagatgtggcacccaaaca	W41072
115326	caccaagatgtggcacccaaacatc	W41072
115327	gccaagctcgcagaaggcgctgctg	W41072
115328	caagctcgcagaaggcgctgctgct	W41072
115329	tgctgctggaactgaaggggctgca	W41072
115330	cggctacttcaaggctcgcctcaag	W41072
115331	ggctacttcaaggctcgcctcaagt	W41072
115332	ctacttcaaggctcgcctcaagttc	W41072

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
30125	cagcctttcagccaaatcagtacca	D38517	72729	acctgctgtgtgcataacatcatcg	AA071736	115333	tacttcaaggctcgcctcaagttcc	W41072
30126	ttcagccaaatcagtaccagatgct	D38517	72730	gtgtgcataacatcatcgtgggcaa	AA071736	115334	aggctcgcctcaagttccccatcga	W41072
30127	caaatcagtaccagatgctaggagg	D38517	72731	ggcaaactctggatcgaacagtatg	AA071736	115335	gttcgtgtcatccataccatgagga	M85153
30128	agtaccagatgctaggaggacctgg	D38517	72732	gcaaactctggatcgaacagtatgg	AA071736	115336	gtcatccataccatgaggagctaca	M85153
30129	gaggctatccacccagacgtgacga	D38517	72733	aaactctggatcgaacagtatggca	AA071736	115337	tgcaccatcttggtgaacagcatga	M85153
30130	atccacccagacgtgacgatcaccg	D38517	72734	gaaatcataaaccacaagacagggg	AA071736	115338	gtcgcacacccagaggcaacaaaac	M85153
30131	caacagttctgaaacctggtgactg	D38517	72735	taaaccacaagacaggggacaagtg	AA071736	115339	gcacacccagaggcaacaaaaccca	M85153
30132	aaagcagcatactgcgcactgttaa	D38517	72736	tttaagccatgtggtctttttggca	AA071736	115340	gcaacaaaacccacagaattcctga	M85153
30133	taggccatgttacaccaagaggctc	D38517	72737	ttaagccatgtggtctttttggcaa	AA071736	115341	cccacagaattcctgaaccaatggg	M85153
30134	caccaagaggctcggggacgagtgt	D38517	72738	aagccatgtggtctttttggcaagg	AA071736	115342	gaattcctgaaccaatgggagatgc	M85153
30135	cgaacactgcactactacctgccaa	D38517	72739	ccatgtggtctttttggcaaggaat	AA071736	115343	gagcttgcacatctgctaaaaattc	M85153
30136	ctgcactactacctgccaattacca	D38517	72740	catgtggtctttttggcaaggaatt	AA071736	115344	ctctgtcactgtgctggatccgtct	M85153
30137	acaggccactgctgagaggtcaagc	D38517	72741	gtgcataacatcatcgtgggcaaac	AA071736	115345	tgtcactgtgctggatccgtctaaa	M85153
30138	gtcaagctcagatcccaaaacttat	D38517	72742	tgcataacatcatcgtgggcaaact	AA071736	115346	gctggatccgtctaaagtgggacag	M85153
30139	ctcagatcccaaaacttatgtcaaa	D38517	72743	cataacatcatcgtgggcaaactct	AA071736	115347	atccataccatgaggagctacatta	M85153
30140	gagcagcctccaaaggctcctcctt	Z32740	72744	ataacatcatcgtgggcaaactctg	AA071736	115348	agctacattaggtcacatcattagg	M85153
30141	aaggctcctccttagctgcatccag	Z32740	72745	aacatcatcgtgggcaaactctgga	AA071736	115349	attaggtcacatcattagggaagtt	M85153
30142	tttacagccacttcaaccactgatg	Z32740	72746	atcatcgtgggcaaactctggatcg	AA071736	115350	gaagcatagctctacttgggtattt	M85153
30143	gccacttcaaccactgatggtcatt	Z32740	72747	tcatcgtgggcaaactctggatcga	AA071736	115351	gtcgctctgtgttctgtgtatgcat	M85153
30144	tcaaccactgatggtcattaaaagt	Z32740	72748	tgggcaaactctggatcgaacagta	AA071736	115352	ttccagtttaggtcaatctgtttct	M85153
30145	tccttttcactaactgaaccagca	Z32740	72749	acaaccctgacaccatgctctgaca	AA071872	115353	tcaatctgtttcttcctttaagcag	M85153
30146	ttcactaactgaaccagcaggtctt	Z32740	72750	ccatgctctgacactatgtgggctc	AA071872	115354	cattgcaccatcttggtgaacagca	M85153
30147	accagcaggtcttagggctggagac	Z32740	72751	tattcttactcagccgtgacagagc	AA071872	115355	tcaaaacacagtcaccactgggatc	AA059662
30148	gttacaaagacacactgagtctatt	Z32740	72752	tactcagccgtgacagagccgggcc	AA071872	115356	agtcaccactgggatcgtcagcacc	AA059662
30149	gtatccatttctaatgtttactata	Z32740	72753	ccaggagttcctgcatttttgcca	AA071872	115357	gattaacaccttgaaggtgacggcg	AA059662
30150	ttgtacctgtgtcatctcactttgt	Z32740	72754	gttcctgcatttttgccagtggct	AA071872	115358	gggcatctccttcgcaattccatcc	AA059662
30151	ctgtgtcatctcactttgtaaataa	Z32740	72755	gcatttttgccagtggctttgtag	AA071872	115359	ctccttcgcaattccatccgataag	AA059662
30152	tctccactcttgagagcagcaaggc	Z32740	72756	tttgccagtggctttgtagataacc	AA071872	115360	cttcgcaattccatccgataagata	AA059662
30153	ccaagcaagcagcaccgtgaagctt	Z32740	72757	tttgtagataaccagcccttcatcc	AA071872	115361	cgcaattccatccgataagataaaa	AA059662
30154	aagcagcaccgtgaagcttagtccc	Z32740	72758	cagcccttcatccactatgacagta	AA071872	115362	gttcttgacagagtcccacgatcga	AA059662
30155	gaagcttagtccctcctgcttgaag	Z32740	72759	ttcatccactatgacagtaggaaga	AA071872	115363	cttgacagagtcccacgatcgacag	AA059662
30156	ctcctgcttgaaggacaggcgttcc	Z32740	72760	ccttgtgctgactggctgagggaaa	AA071872	115364	gacagagtcccacgatcgacaggcc	AA059662
30157	ccgtcagatacggacgtcaagatgc	Z32740	72761	tctgacactatgtgggctctgatct	AA071872	115365	gtcccacgatcgacaggccaaaggg	AA059662
30158	gacgtcaagatgctctcttttacag	Z32740	72762	actatgtgggctctgatcttctgct	AA071872	115366	gaaagctgtcaccaagaagaagtat	AA059662
30159	ctctcttttacagccacttcaacca	Z32740	72763	ctgatcttctgcttcctgagtcacc	AA071872	115367	tcggaactccgatatggactacatt	AA059662
30160	tgcctatagagtgtgcctggaggtg	D26077	72764	gacactggagcccgatcacactctc	AA071872	115368	tatggactacattcagacagacgct	AA059662
30161	gccagctctgccttctctgatggga	D26077	72765	ggagcccgatcacactctctgcact	AA071872	115369	ggactacattcagacagacgctatc	AA059662
30162	tagttcttcatgttacggcacctca	D26077	72766	cgatcacactctctgcactattctt	AA071872	115370	cattcagacagacgctatcatcaat	AA059662
30163	ttcatgttacggcacctcaagcttt	D26077	72767	cactctctgcactattcttactcag	AA071872	115371	tcagacagacgctatcatcaattat	AA059662
30164	cacctcaagctttgctttatgttgg	D26077	72768	ctgcactattcttactcagccgtga	AA071872	115372	gacagacgctatcatcaattatgga	AA059662
30165	aagctttgctttatgttggtcatta	D26077	72769	tgacttcacctctcagatcttttca	U61363	115373	agacgctatcatcaattatggaaat	AA059662
30166	tgcctgtgcacagtagtgcctgtgc	D26077	72770	tcagatcttttcacttggctattgc	U61363	115374	agtaaacctggatggcgaggtgatt	AA059662
30167	tgcacagtagtgcctgtgctctggg	D26077	72771	gtcactcaagtttgcccactgtggc	U61363	115375	ccgctgagcgtgatctcgcctccat	M96265
30168	cctgtgctctgggtgtgtctctaag	D26077	72772	tgcccactgtggcaaatggtttgta	U61363	115376	agcgtgatctcgcctccatcatgaa	M96265
30169	ttagaaatactccagcgtccagtgt	D26077	72773	cttcgtgcaaactggactcctcctc	U61363	115377	gatccgcaactgtctatgaaatgct	M96265
30170	atactccagcgtccagtgtttgcct	D26077	72774	gcaaactggactcctcctcatagca	U61363	115378	aaatgcttgcccaggcccagcgtga	M96265
30171	cagcgtccagtgtttgcctttgtct	D26077	72775	catagcactttgcgctgttgtactt	U61363	115379	tacactattgcctggcgcagaaaga	M96265
30172	tctgccttctctgatgggagcagag	D26077	72776	caaggatttccaatactcattgcag	U61363	115380	aaacggcaggatcaccattgcttga	M96265
30173	gaattgcccacaagggtccatactg	D26077	72777	tttccaatactcattgcagttgtgg	U61363	115381	caccattgcttgactgtgaccacat	M96265
30174	cccacaagggtccatactgtcctgg	D26077	72778	atactcattgcagttgtggagttta	U61363	115382	actgtgaccacatcagggccttgaa	M96265
30175	gaatcctgtctgcctggagcagaag	D26077	72779	gagtttaatccttccatagcccact	U61363	115383	accacatcagggccttgaatctttg	M96265
30176	tgtctgcctggagcagaagccactg	D26077	72780	ttcctccttgctattgaattgtgaa	U61363	115384	ccttgaatctttgtacctgacagac	M96265
30177	gacttctgcgagtgtggctcccctg	D26077	72781	cttttcacttggctattgcccaact	U61363	115385	atctttgtacctgacagacctggga	M96265
30178	ccacacctcctgtttacatagacta	D26077	72782	acttggctattgcccaactggagag	U61363	115386	gtacctgacagacctgggacctgga	M96265
30179	ctcctgtttacatagactagtttgg	D26077	72783	agtattgcatgtcaccaaaccagac	U61363	115387	agaagctcttgaccaagtacgacaa	M96265
30180	attaaagctgtcaatctcttccctg	D63784	72784	gcatgtcaccaaaccagacaaatac	U61363	115388	tcaataaaactgcgtctcacatttt	M96265
30181	aaagctgtcaatctcttccctgctg	D63784	72785	caccaaaccagacaaataccagttg	U61363	115389	tcttgaccaagtacgacaatctatt	M96265
30182	gacagtgcagcaccatcagaacggt	D63784	72786	accagacaaataccagttgcatctt	U61363	115390	ccaagtacgacaatctatttgagac	M96265
30183	gcagcaccatcagaacggtttgaag	D63784	72787	caaataccagttgcatcttcatgag	U61363	115391	ttgagacatcctttccctactccat	M96265
30184	tttgaaggtccctgcatagattcca	D63784	72788	tgtgctgtcactcaagtttgcccac	U61363	115392	ttccctactccatgggctggcatgg	M96265
30185	ccagtaaatactcctgaacgatggg	D63784	72789	agggctcggttcacagcaggctgaa	U47008	115393	agactggagccacctgtgaccactg	M96265
30186	atagccgaagctgttcctggcagga	D63784	72790	actcacggccgggctctacaggcag	U47008	115394	gaccgtgtacactggcagctcacgc	M96265
30187	aaagctgctcaggagcaagtgctga	D63784	72791	gattctaaaagactatcctcactct	U47008	115395	gtacactggcagctcacgcccacta	M96265
30188	taatgcaggcaatcctggttgtgtg	D63784	72792	tctaaaagactatcctcactctgca	U47008	115396	cagagacgtgccttctcatctgcta	AA063858
30189	aggcaatcctggttgtgtgtgcact	D63784	72793	tcctcactctgcattcaccttggaa	U47008	115397	cgtgccttctcatctgctatacaac	AA063858
30190	caatcctggttgtgtgtgcacttttt	D63784	72794	tcactctgcattcaccttggaaaag	U47008	115398	acagcgcccagagtgcggttgatgg	AA063858
30191	tcctggttgtgtgtgcacttttata	D63784	72795	aacagagcctgaagactcaagatag	U47008	115399	cggttgatgggcgcaccgtgaacct	AA063858
30192	atgaacatacattcttcttctggcg	D63784	72796	atagctgagatgctcctactgtttc	U47008	115400	ttgatgggcgcaccgtgaacctaaa	AA063858

TABLE 1

SEQ ID NO	sequence	DBAxnID
30193	atacattcttcttctggcgtcaaaa	D63784
30194	cattcttcttctggcgtcaaaagaa	D63784
30195	tcttcttctggcgtcaaaagaactg	D63784
30196	aaacttgaccctcatcaaaaagatg	D63784
30197	gaccctcatcaaaaagatgacatta	D63784
30198	gcctctcaggctgacagtgcagcac	D63784
30199	gctgacagtgcagcaccatcagaac	D63784
30200	tttcgtgtgcatcgtcaccgaacgt	W89900
30201	ttcgtgtgcatcgtcaccgaacgtg	W89900
30202	ggcctcgcaatgaggcgaaaactga	W89900
30203	ctgacgtaaacgtacactcagctag	W89900
30204	gacgtaaacgtacactcagctagtc	W89900
30205	acgtaaacgtacactcagctagtcg	W89900
30206	cgtaaacgtacactcagctagtcga	W89900
30207	gtaaacgtacactcagctagtcgat	W89900
30208	ttcccctgcaagcagtttgggaggc	W89900
30209	tcccctgcaagcagtttgggaggca	W89900
30210	cccctgcaagcagtttgggaggcat	W89900
30211	ccctgcaagcagtttgggaggcatg	W89900
30212	cgtgtgcatcgtcaccgaacgtggc	W89900
30213	gtgtgcatcgtcaccgaacgtggcc	W89900
30214	tgtgcatcgtcaccgaacgtggcct	W89900
30215	gtgcatcgtcaccgaacgtggcctc	W89900
30216	atcgtcaccgaacgtggcctcgcaa	W89900
30217	tcgtcaccgaacgtggcctcgcaat	W89900
30218	tcaccgaacgtggcctcgcaatgag	W89900
30219	tggcctcgcaatgaggcgaaaactg	W89900
30220	cccctgaagccagcaaggctttcat	W89740
30221	tgaagccagcaaggctttcataagg	W89740
30222	aagtgttagatccctcacagggatg	W89740
30223	gttagatccctcacagggatgacca	W89740
30224	tccctcacagggatgaccagtctac	W89740
30225	gaccagtctacgatggtcatccttg	W89740
30226	ccagtctacgatggtcatccttgct	W89740
30227	agtctacgatggtcatccttgcttc	W89740
30228	tctacgatggtcatccttgcttctg	W89740
30229	cgatggtcatccttgcttctgaatt	W89740
30230	atggtcatccttgcttctgaattgg	W89740
30231	atgaaacacagtgtggcctggcttc	W89740
30232	ctttcataaggctgtgctgatcatc	W89740
30233	gaaacacagtgtggcctggcttcgt	W89740
30234	ctttgaagccgttcctgatgtctat	W89740
30235	ttgaagccgttcctgatgtctatgc	W89740
30236	gaagccgttcctgatgtctatgctc	W89740
30237	agccgttcctgatgtctatgctccc	W89740
30238	gttcctgatgtctatgctccctatt	W89740
30239	tcctgatgtctatgctccctattct	W89740
30240	ctgatgtctatgctccctattctgc	W89740
30241	cagacttagaagctcctcagactat	W89939
30242	agacttagaagctcctcagactatg	W89939
30243	attacactgagtatgcgctcctcct	W89939
30244	ttacactgagtatgcgctcctcctc	W89939
30245	tacactgagtatgcgctcctcctct	W89939
30246	acactgagtatgcgctcctcctctt	W89939
30247	cactgagtatgcgctcctcctcttg	W89939
30248	actgagtatgcgctcctcctcttga	W89939
30249	ctgagtatgcgctcctcctcttgag	W89939
30250	tgagtatgcgctcctcctcttgagc	W89939
30251	gagtatgcgctcctcctcttgagct	W89939
30252	agtatgcgctcctcctcttgagctc	W89939
30253	gacttagaagctcctcagactatgc	W89939
30254	cttagaagctcctcagactatgccg	W89939
30255	ttagaagctcctcagactatgccga	W89939
30256	tagaagctcctcagactatgccgat	W89939
30257	actcttgttgttgatgtgtgagctt	W89939
30258	tgtgagcttctagaacgtgggaatt	W89939
30259	tgagcttctagaacgtgggaattac	W89939
30260	aattacactgagtatgcgctcctcc	W89939

SEQ ID NO	sequence	DBAxnID
72797	gctgagatgctcctactgtttctct	U47008
72798	atgctcctactgtttctctggaaat	U47008
72799	taagccttaataaccagtgttgcct	U47008
72800	cccacacagtagtctgtggacatca	U47008
72801	ttctgatagctctgatggacaagga	U47008
72802	gaatctccgaattccgagtgtgcag	U47008
72803	aattccgagtgtgcagaaccgacag	U47008
72804	tgtgcagaaccgacagccccatcat	U47008
72805	acagccccatcattttgtggtggat	U47008
72806	gctttactccagtgaggccaagtcc	U47008
72807	ttactccagtgaggccaagtcccac	U47008
72808	ccactcctcagagagccttgggatt	U47008
72809	ctttctcaggcctctagctgggtct	AA071956
72810	tctcaggcctctagctgggtctgtc	AA071956
72811	ctctgtcacctggaccatgtcagat	AA071956
72812	tgtcacctggaccatgtcagatacc	AA071956
72813	cacctggaccatgtcagataccgga	AA071956
72814	agagtccggtgtcgagttagcagac	AA071956
72815	gtccggtgtcgagttagcagaccgg	AA071956
72816	gataggcgacacgcactccaaagac	AA071956
72817	aggcgacacgcactccaaagacctg	AA071956
72818	cgacacgcactccaaagacctggag	AA071956
72819	cacgcactccaaagacctggagatc	AA071956
72820	ctccaaagacctggagatctggatg	AA071956
72821	agctgggtctgtcctgtacttcacc	AA071956
72822	gtctgtcctgtacttcaccagagga	AA071956
72823	aacgttcttgggagagcttgtcagg	AA071956
72824	agagcttgtcaggtgtggaacctca	AA071956
72825	ctcagccatggtggccttcttgttc	AA071956
72826	catggtggccttcttgttctgcaac	AA071956
72827	gttctgcaacctgctactggtggcc	AA071956
72828	caacctgctactggtggcctgtggc	AA071956
72829	cacatattctccaggtggccagcag	U47543
72830	ttctccaggtggccagcagtggtgt	U47543
72831	accttcactctgagactgggggctt	U47543
72832	catccccatttttcgtgcttctagt	U47543
72833	atttaacaagtgctgcagtttgccc	U47543
72834	ggcctcctcaaccggcaggactgca	U47543
72835	ctcctcaaccggcaggactgcagca	U47543
72836	aaccggcaggactgcagcacctgtc	U47543
72837	cggcaggactgcagcacctgtcgga	U47543
72838	caggactgcagcacctgtcggacac	U47543
72839	gactgcagcacctgtcggacactta	U47543
72840	acctgtcggacacttagcgtgtctt	U47543
72841	tgagcaactgaactacttcacttgg	U47543
72842	gcaactgaactacttcacttggaca	U47543
72843	actgaactacttcacttggacacgg	U47543
72844	ctacttcacttggacacggagaaag	U47543
72845	ggtctagcgacttacagtggaacct	U47543
72846	acttacagtggaaccttcactctga	U47543
72847	tacagtggaaccttcactctgagac	U47543
72848	agtggaaccttcactctgagactgg	U47543
72849	tctgcgtgctagatgtcgacctaca	U53514
72850	tgctagatgtcgacctacaaggtgt	U53514
72851	gcttgtttgacctggtgatcatcaa	U53514
72852	ttgacctggtgatcatcaatgacga	U53514
72853	tcatcaatgacgacctggataaagc	U53514
72854	cctatgcaaccctgaagcaggcgct	U53514
72855	caaccctgaagcaggcgctctctga	U53514
72856	aggcgctctctgaggaaatcaagaa	U53514
72857	ctggccacgcctgaaggcctgcttc	U53514
72858	acgcctgaaggcctgcttcattcca	U53514
72859	gaaggcctgcttcattccacagagt	U53514
72860	cattccacagagtgatgtctgtggt	U53514
72861	atgtcgacctacaaggtgtgcgcag	U53514
72862	acctacaaggtgtgcgcagcatcaa	U53514
72863	ctgatctgtgtcccatctacatctt	U53514
72864	ccatctacatctttgtgcagcctcc	U53514

SEQ ID NO	sequence	DBAxnID
115401	ggcgcaccgtgaacctaaacctgtg	AA063858
115402	tgaacctaaacctgtgggacactgc	AA063858
115403	taaacctgtgggacactgcgggcca	AA063858
115404	acactgcgggccaggaggaatatga	AA063858
115405	accctcagaccaacgtcttcgtcat	AA063858
115406	ctcagaccaacgtcttcgtcatctg	AA063858
115407	cctcctatgagaacgtgaggcacaa	AA063858
115408	gccttctcatctgctatacaactaa	AA063858
115409	ggcacaaatggcacccagaggtttg	AA063858
115410	ttctcatctgctatacaactaacgc	AA063858
115411	tcatctgctatacaactaacgcctt	AA063858
115412	ccaaggaatacatccccactgtgtt	AA063858
115413	tccccactgtgtttgacaattacag	AA063858
115414	ttgacaattacagcgcccagagtgc	AA063858
115415	acaattacagcgcccagagtgcggt	AA063858
115416	attacagcgcccagagtgcggttga	AA063858
115417	accccagcaaggacactgagcaaga	M32599
115418	ccccagcaaggacactgagcaagag	M32599
115419	ctctcttgaataccatcaataaagt	M32599
115420	tctcttgaataccatcaataaagtt	M32599
115421	ctcttgaataccatcaataaagttc	M32599
115422	tcttgaataccatcaataaagttcg	M32599
115423	cttgaataccatcaataaagttcgc	M32599
115424	ttgaataccatcaataaagttcgct	M32599
115425	tgaataccatcaataaagttcgctg	M32599
115426	aataccatcaataaagttcgctgca	M32599
115427	taccatcaataaagttcgctgcacc	M32599
115428	accatcaataaagttcgctgcaccc	M32599
115429	cccagcaaggacactgagcaagaga	M32599
115430	ctccctactctcttgaataccatca	M32599
115431	tccctactctcttgaataccatcaa	M32599
115432	ccctactctcttgaataccatcaat	M32599
115433	cctactctcttgaataccatcaata	M32599
115434	ctactctcttgaataccatcaataa	M32599
115435	tactctcttgaataccatcaataaa	M32599
115436	actctcttgaataccatcaataaag	M32599
115437	agagttttctcagccataatactta	M21828
115438	tcagccataatacttaactggaaag	M21828
115439	gcagtcattcacattctgatgtgtg	M21828
115440	cacattctgatgtgtggactgcaca	M21828
115441	tttagttagtcctattctgctatgc	M21828
115442	tagtcctattctgctatgctgtctc	M21828
115443	tcctattctgctatgctgtctcatg	M21828
115444	tattctgctatgctgtctcatgaag	M21828
115445	ttacagactgtatacccaggacaga	M21828
115446	actgtatacccaggacagagctgtt	M21828
115447	gtatacccaggacagagctgttttg	M21828
115448	tacccaggacagagctgttttgtat	M21828
115449	gttcatctctgatccctgaccaaac	M21828
115450	atgttgcctgtgcaacccccttagga	M21828
115451	ttgcctgtgcaacccccttaggaata	M21828
115452	ttacacacagagaagctgtgtttag	M21828
115453	gaaatacacatgcctaagctagcag	M21828
115454	cacatgcctaagctagcagtcattc	M21828
115455	atgcctaagctagcagtcattcaca	M21828
115456	cctaagctagcagtcattcacattc	M21828
115457	cctaagcactcacagacgaaaagcc	M32240
115458	gtggctcctgaacacttgaccctgt	M32240
115459	tgcctccaaggactgtctggcgatg	M32240
115460	caaggactgtctggcgatgacttgt	M32240
115461	tattggccaccaactgtagatgtat	M32240
115462	ccaccaactgtagatgtatatacgg	M32240
115463	gtgtccttctgatgctaagactcca	M32240
115464	ttctgatgctaagactccagacctt	M32240
115465	tgctaagactccagacctttcttgt	M32240
115466	cttgctttctctgattttataccaa	M32240
115467	ttctctgattttataccaactgtgt	M32240
115468	ataccaactgtgtggactaagatgc	M32240

TABLE 1

SEQ ID NO	sequence	DBAxnID
30261	ccatgaaactacattcaatgtccat	W89940
30262	catgaaactacattcaatgtccatc	W89940
30263	tcaatgtccatcagggattgtgacg	W89940
30264	aatgtccatcagggattgtgacgtt	W89940
30265	atgtccatcagggattgtgacgttg	W89940
30266	tgtccatcagggattgtgacgttga	W89940
30267	tggtagcacatgtacgcagtcattg	W89940
30268	cacatgtacgcagtcattgctgaca	W89940
30269	actctgtggtgatcggtggctccgt	W89940
30270	tctgtggtgatcggtggctccgtgc	W89940
30271	ttctatcagatgtggatcggcaatg	W89940
30272	tctatcagatgtggatcggcaatga	W89940
30273	gaaactacattcaatgtccatcagg	W89940
30274	aaactacattcaatgtccatcaggg	W89940
30275	aactacattcaatgtccatcaggga	W89940
30276	ctacattcaatgtccatcagggatt	W89940
30277	tacattcaatgtccatcagggattg	W89940
30278	acattcaatgtccatcagggattgt	W89940
30279	attcaatgtccatcagggattgtga	W89940
30280	ttcaatgtccatcagggattgtgac	W89940
30281	actataatcctagtgccagcatgta	W89943
30282	ataatcctagtgccagcatgtacgt	W89943
30283	atgctcactatggggcacaagtcgg	W89943
30284	cacaagtcggctctgccatttgctc	W89943
30285	tcggctctgccatttgctccgagag	W89943
30286	gctctgccatttgctccgagagttc	W89943
30287	ctgccatttgctccgagagttccaa	W89943
30288	gttccaagtacatcctctcaagtgg	W89943
30289	agtacatcctctcaagtggaacata	W89943
30290	tcctctcaagtggaacatactctgt	W89943
30291	gaacatactctgtagcgaaactctg	W89943
30292	actctgtagcgaaactctggtagat	W89943
30293	atcctagtgccagcatgtacgtcac	W89943
30294	ccagcatgtacgtcactggcagcaa	W89943
30295	gcatgtacgtcactggcagcaagga	W89943
30296	acgtcactggcagcaaggacggctg	W89943
30297	atgtcgtctccagccgctggatcac	W89943
30298	gctggatcacagcctttgacaatgc	W89943
30299	tcacagcctttgacaatgctcacta	W89943
30300	cctttgacaatgctcactatggggc	W89943
30301	cgtccgcgggctagtagccaacatg	W37000
30302	ggctagtagccaacatgcagctctt	W37000
30303	ccaacatgcagctctttgtccgcgc	W37000
30304	caacatgcagctctttgtccgcgcc	W37000
30305	acacaccctcgaggtgaccggccag	W37000
30306	cacaccctcgaggtgaccggccagg	W37000
30307	cctcgaggtgaccggccaggagacg	W37000
30308	taggccagtgtggcgtagaggccct	W37000
30309	gctagtagccaacatgcagctctttt	W37000
30310	ctagtagccaacatgcagctctttg	W37000
30311	tagtagccaacatgcagctctttgt	W37000
30312	agtagccaacatgcagctctttgtc	W37000
30313	gtagccaacatgcagctctttgtcc	W37000
30314	tagccaacatgcagctctttgtccg	W37000
30315	agccaacatgcagctctttgtccgc	W37000
30316	gccaacatgcagctctttgtccgcg	W37000
30317	atctcatcaacatactactggcaca	W90945
30318	tcatcaacatactactggcacaagt	W90945
30319	tatgacactgaacataccctgatat	W90945
30320	gacactgaacataccctgatatcaa	W90945
30321	actgaacataccctgatatcaaagt	W90945
30322	gaacataccctgatatcaaagtgca	W90945
30323	catacctgatatcaaagtgcacca	W90945
30324	atatcaaagtgcaccaaacggtgcc	W90945
30325	tcaaagtgcaccaaacggtgccagt	W90945
30326	aagtgcaccaaacggtgccagtgtc	W90945
30327	tgcaccaaacggtgccagtgtcgaa	W90945
30328	cggtgccagtgtcgaacaagaatgg	W90945
72865	agcaacgactgcgactgcgcaacac	U53514
72866	tggcagctgcacggacagacatgga	U53514
72867	gcaaggagcctggcttgtttgacct	U53514
72868	agcctggcttgtttgacctggtgat	U53514
72869	atatgcaactggatgttttgtggca	U62522
72870	acccacacaggtgaaaagagatttg	U62522
72871	ggctctccacggattgtcacggttg	U62522
72872	ccacggattgtcacggttgccgcca	U62522
72873	tcgaatccagcaactcccaatgttt	U62522
72874	ccagcaactcccaatgtttcaacaa	U62522
72875	aatgtttcaacaaacatggaagaat	U62522
72876	atttataacaaagacctctagtgct	U62522
72877	gacctctagtgctgcacttaagttt	U62522
72878	tgcacttaagtttacacacctttga	U62522
72879	tacacacctttgaaaatctggaaat	U62522
72880	gtttgtatccttggcatctttaagt	U62522
72881	cggagtgatcacctatccaagcatg	U62522
72882	gatcacctatccaagcatgtcaaaa	U62522
72883	ctatccaagcatgtcaaaactcacc	U62522
72884	gggacagctcttgccattgttacct	U62522
72885	gccattgttacctccggagaactgg	U62522
72886	gttacctccggagaactggactcat	U62522
72887	gaactggactcatctgttacagagg	U62522
72888	gactcatctgttacagaggtgcttg	U62522
72889	cctcctagctctgattgagctttat	X99300
72890	agctctgattgagctttatgtcgaa	X99300
72891	aacgattctctcgatcattgcaaac	X99300
72892	tctctcgatcattgcaaacattctt	X99300
72893	gatcattgcaaacattcttctcccg	X99300
72894	cgggctacagtttcatcactcggcg	X99300
72895	acagtttcatcactcggcggagcta	X99300
72896	tcatcactcggcggagctatggaag	X99300
72897	ctcggcggagctatggaaggcgttc	X99300
72898	ttcctactggagaagacggaatcct	X99300
72899	actcagtttcgactcggtattgatg	X99300
72900	tttcgactcggtattgatggagagc	X99300
72901	ggtacctaacgacgcgatcattccg	X99300
72902	taacgacgcgatcattccggtcctg	X99300
72903	cacgatgacaactacgccaggcgca	X99300
72904	aggcgcagcaaaccggtggcagaga	X99300
72905	agcaaaccggtggcagagagctgag	X99300
72906	gcgtagcatcggactggtcgtttcc	X99300
72907	catcggactggtcgtttccatcaaa	X99300
72908	actgcccggccgtcgtctgtggaca	X99300
72909	ccttacttgcatcgctgttgtgggg	AA071997
72910	tacttgcatcgctgttgtggggatt	AA071997
72911	cacagctcgggccattgctaccaaa	AA071997
72912	tcgggccattgctaccaaatgcggt	AA071997
72913	tgctaccaaatgcggtattttacac	AA071997
72914	ggaagatttcctgtgcttagaaggt	AA071997
72915	tttcctgtgcttagaaggtaaagat	AA071997
72916	gatttggccaaagcttcgagtgctt	AA071997
72917	ttggccaaagcttcgagtgcttgca	AA071997
72918	gccaaagcttcgagtgcttgcaaga	AA071997
72919	aaagcttcgagtgcttgcaagatca	AA071997
72920	gcttcgagtgcttgcaagatcatct	AA071997
72921	tgaagatcctgtgaggcctgaggta	AA071997
72922	agatcctgtgaggcctgaggtacca	AA071997
72923	tcctgtgaggcctgaggtaccagag	AA071997
72924	tggaattaccgtgcgcatggtcact	AA071997
72925	aattaccgtgcgcatggtcactggt	AA071997
72926	cgtgcgcatggtcactggtgataat	AA071997
72927	tattaacacagctcgggccattgct	AA071997
72928	taacacagctcgggccattgctacc	AA071997
72929	catagctgtagcgcagacactcact	AA030391
72930	agctgtagcgcagacactcactcac	AA030391
72931	gcccgttcagctggagagacccgaa	AA030391
72932	gagacccgaatcgctcaggtcggcc	AA030391
115469	tggggccacacgtttaaatgagaag	M32240
115470	cggttcataactgctttcataccta	M32240
115471	ataactgctttcatacctagctagg	M32240
115472	atacctagctaggctgttgttatta	M32240
115473	caaagccttcgtcagtcccacagtt	M32240
115474	cacagttttctcacggtcggagcat	M32240
115475	tctagaccctgggactagcgagtt	M32240
115476	tccctggctttctgggtctagagtg	M32240
115477	ggctgacccaaaacagggcgcatgc	J02995
115478	cccaaaacagggcgcatgcctagcc	J02995
115479	ctcgttacctccaaaggctgctctg	J02995
115480	acctccaaaggctgctctgcagagg	J02995
115481	tgtgcacactgccagcgaccttgaa	J02995
115482	cactgccagcgaccttgaatagcca	J02995
115483	cagcgaccttgaatagccagacacc	J02995
115484	tgctcacaaggcccctgctctgttg	J02995
115485	atattttgcattacactttgatact	J02995
115486	tgcattacactttgatactacactc	J02995
115487	gcacaccaacagcattccccttttt	J02995
115488	tgaatccaaatctctctgtagtatt	J02995
115489	cgcatgcctagccttgtaccaggct	J02995
115490	cttgtaccaggctggaagacacctc	J02995
115491	caggcccacactgatccacctagat	J02995
115492	cacactgatccacctagatgcgggc	J02995
115493	gatccacctagatgcgggcctggta	J02995
115494	agagatgatttcctctgatggtctt	J02995
115495	gatttcctctgatggtcttccatgg	J02995
115496	tggtcttccatggtcctcgtagcac	J02995
115497	ggtaactccagcaatgccactagca	M98339
115498	tccagcaatgccactagcagcagca	M98339
115499	agcctggtcctggctgacagtcatg	M98339
115500	gtcctggctgacagtcatggggaca	M98339
115501	ataatcaccgcgtaatcagcgcccc	M98339
115502	tcaaattcctgctcggacttgggac	M98339
115503	ttgtctgggaacaactcctgaagaa	M98339
115504	tcaaacacctttccaggtggagctc	M98339
115505	aagcctgcgttcttacagagaagcc	M98339
115506	agaagcccaccttggctgcaagcac	M98339
115507	ccaccttggctgcaagcacagcaca	M98339
115508	gcagagacttcttccttccttattc	M98339
115509	aatgccactagcagcagcagcagca	M98339
115510	actagcagcagcagcagcagtgaag	M98339
115511	acagagcccgggctgtcatctcact	M98339
115512	ctgtcatctcactatgggcacagca	M98339
115513	agctccatgtcccagacttcagtct	M98339
115514	gtctgctctaagctgtccccacaag	M98339
115515	ggctatgcatctcctgtcactcaga	M98339
115516	agctccaagcaggactcttggaaca	M98339
115517	agcagactacgaccttcacaggaca	M63658
115518	gcctctcactgagtcctgacttgaa	M63658
115519	gcctcctgttagccggctatgacga	M63658
115520	tgttagccggctatgacgacttcaa	M63658
115521	atgacgacttcaactgcagtgtgtg	M63658
115522	acttcaactgcagtgtgtgggacgc	M63658
115523	actgcagtgtgtgggacgctctgaa	M63658
115524	tccttgctggtcatgacaaccgtgt	M63658
115525	catattttctgttctccaatgatac	M63658
115526	ttctgttctccaatgatacctggag	M63658
115527	tctccaatgatacctggagaaatcc	M63658
115528	cgtgttacagcctatagctgtgagg	M63658
115529	cttgtgatgcatcctcaaagctgtg	M63658
115530	gacagtctttcaccggacacatctc	M63658
115531	ctttcaccggacacatctcagacat	M63658
115532	ccggacacatctcagacatcaacgc	M63658
115533	acatctcagacatcaacgctgtcag	M63658
115534	aggagctcctgctatactctcatga	M63658
115535	tcctgctatactctcatgacaatat	M63658
115536	tatactctcatgacaatatcatctg	M63658

TABLE 1

SEQ ID NO	sequence	DBAxnID
30329	acatactactggcacaagtctcttg	W90945
30330	gatataccacgaaacaaccaagcta	W90945
30331	tactactggcacaagtctcttggag	W90945
30332	tactggcacaagtctcttggagctg	W90945
30333	aagtctcttggagctgggccaattg	W90945
30334	tctcttggagctgggccaattgaac	W90945
30335	ataataccttatgacactgaacata	W90945
30336	ataccttatgacactgaacataccc	W90945
30337	ccttatgacactgaacataccctga	W90945
30338	cgccgcttgctgcagacgtgaacaa	W90947
30339	gttctacgaaatcacggacgatgac	W90947
30340	ttcaagctgtttgcgacaaagttcc	W90947
30341	ggatcatcaaatcacagaataatac	W90947
30342	aataccagaatcatatgccgggatg	W90947
30343	taccagaatcatatgccgggatggt	W90947
30344	agaatcatatgccgggatggtgaat	W90947
30345	aatcatatgccgggatggtgaatta	W90947
30346	tcatatgccgggatggtgaattaac	W90947
30347	atatgccgggatggtgaattaacga	W90947
30348	tgaattaacgagccgtgaaggaact	W90947
30349	ttaacgagccgtgaaggaactagcg	W90947
30350	tacgaaatcacggacgatgacgaac	W90947
30351	gacgatgacgaaccctagggagacg	W90947
30352	ggagacgtctccttcaagctgtttg	W90947
30353	agacgtctccttcaagctgtttgcg	W90947
30354	acgtctccttcaagctgtttgcgac	W90947
30355	gtctccttcaagctgtttgcgacaa	W90947
30356	ctccttcaagctgtttgcgacaaag	W90947
30357	ccttcaagctgtttgcgacaaagtt	W90947
30358	accatcaaggcagtgtctgttgctg	U25114
30359	aaggcagtgtctgttgctgtggtga	U25114
30360	gcagccgccacacagttaggactaa	U25114
30361	agtcactgcctggtccatctacaca	U25114
30362	tgcctggtccatctacacaagaact	U25114
30363	tgtatccctcagtatacaataggcc	U25114
30364	ctagactcagctatgcaattcctga	U25114
30365	atgcaattcctgacggcccagaggt	U25114
30366	cagaggttgcccctgactttggctg	U25114
30367	ctgactttggctggagcctcctatg	U25114
30368	gtcctgggcacagaatctaacagct	U25114
30369	gaatctaacagctgacaagccccct	U25114
30370	cagtaccgaggagcttgtctgcctg	U25114
30371	ctgcctgtccagggatttggacatt	U25114
30372	ccatcgtcagaagacccgactgtcc	U25114
30373	cccccaagcctcagagtgactgtga	U25114
30374	ctgtctccagagctgttccagcaac	U25114
30375	ccagagctgttccagcaacaagccc	U25114
30376	ctgttccagcaacaagcccaggagg	U25114
30377	cagcaacaagcccaggaggcagccg	U25114
30378	ctacttcctgatggagcgtgtgttc	W90978
30379	ttcctgatggagcgtgtgttccaaa	W90978
30380	catggcaacgctgcctgattggcta	W90978
30381	tggcaacgctgcctgattggctacg	W90978
30382	gcaacgctgcctgattggctacggg	W90978
30383	aacgctgcctgattggctacggggt	W90978
30384	ctgcctgattggctacggggtgcca	W90978
30385	gcctgattggctacggggtgccaat	W90978
30386	tgccaatcctcaacgtggacatcaa	W90978
30387	ccaatcctcaacgtggacatcaaca	W90978
30388	aatcctcaacgtggacatcaacatg	W90978
30389	tcctcaacgtggacatcaacatggc	W90978
30390	agcgtgtgttccaaagccaaggcct	W90978
30391	cctcaacgtggacatcaacatggca	W90978
30392	cgtgtgttccaaagccaaggcctga	W90978
30393	tgtgttccaaagccaaggcctgagt	W90978
30394	tgttccaaagccaaggcctgagtac	W90978
30395	ccaaagccaaggcctgagtacatgg	W90978
30396	aaagccaaggcctgagtacatggca	W90978

SEQ ID NO	sequence	DBAxnID
72933	acccgaatcgctcaggtcggcctct	AA030391
72934	tgctcgggaagccgggagaaacaca	AA030391
72935	cacacgtagcactgcgccggcgtag	AA030391
72936	acgtagcactgcgccggcgtagtga	AA030391
72937	cactgcgccggcgtagtgacgtctc	AA030391
72938	gtagtgacgtctctgcgtgaagagc	AA030391
72939	gtgacgtctctgcgtgaagagccaa	AA030391
72940	tctctgcgtgaagagccaattgaaa	AA030391
72941	agcgcagacactcactcactaacta	AA030391
72942	gcagacactcactcactaactaact	AA030391
72943	cactcactaactaactagcgacact	AA030391
72944	ctaactaactagcgacacttcgtgg	AA030391
72945	tagcgacacttcgtggatttacgtt	AA030391
72946	cgacacttcgtggatttacgttgag	AA030391
72947	ttcgtggatttacgttgaggctgct	AA030391
72948	gatttacgttgaggctgctggagag	AA030391
72949	attgttaagcctggatcatgaagct	X95580
72950	gttaagcctggatcatgaagctgtt	X95580
72951	ttatgcactttgtcgctattaacat	X95580
72952	atgcactttgtcgctattaacatcc	X95580
72953	tgcactttgtcgctattaacatcct	X95580
72954	acatccttttttcatatagatttca	X95580
72955	cactaactgtactgttttgttatat	X95580
72956	ttatatcaaataaacatcttctgtg	X95580
72957	atatcaaataaacatcttctgtgga	X95580
72958	tatcaaataaacatcttctgtggac	X95580
72959	tcaaataaacatcttctgtggacca	X95580
72960	caaataaacatcttctgtggaccag	X95580
72961	agcctggatcatgaagctgttgatc	X95580
72962	aattctcaattcagagaagttatct	X95580
72963	tatctggtgtttcttgactttacca	X95580
72964	actcaaaacagcccctctgtagttg	X95580
72965	aacagcccctctgtagttgtggaag	X95580
72966	cagcccctctgtagttgtggaagct	X95580
72967	cccctctgtagttgtggaagcttat	X95580
72968	ggttttatgcactttgtcgctatta	X95580
72969	cagcaagatggcggctgctgaacga	AA071941
72970	aagatggcggctgctgaacgaggtt	AA071941
72971	gctctatttgcctctcacgagaaat	AA071941
72972	tctatttgcctctcacgagaaattt	AA071941
72973	tatttgcctctcacgagaaattttc	AA071941
72974	ttttcccaggaattgtcggacactg	AA071941
72975	ttcccaggaattgtcggacactgag	AA071941
72976	aattgtcggacactgagatggcttc	AA071941
72977	gcttcccaagtcacggcagagtttg	AA071941
72978	ttcccaagtcacggcagagtttgag	AA071941
72979	caagtcacggcagagtttgagaagg	AA071941
72980	agtcacggcagagtttgagaaggaa	AA071941
72981	agcaccctgtactaacatctcggcc	AA071941
72982	tgcttaagggccccagaagagatcg	AA071941
72983	gagatcgccaggagacattgcaaac	AA071941
72984	agacattgcaaaccatgctctattt	AA071941
72985	acattgcaaaccatgctctatttgc	AA071941
72986	tgcaaaccatgctctatttgcctct	AA071941
72987	caaaccatgctctatttgcctctca	AA071941
72988	aaccatgctctatttgcctctcacg	AA071941
72989	tggtcctcgtcacagccttcaatga	AA071942
72990	tcctcgtcacagccttcaatgattg	AA071942
72991	acattgcccagatcaaatacggtga	AA071942
72992	ttgcccagatcaaatacggtgacct	AA071942
72993	ttcctgctgatggcctcttcatcca	AA071942
72994	ctgctgatggcctcttcatccaggg	AA071942
72995	ctgatggcctcttcatccagggcaa	AA071942
72996	atggcctcttcatccagggcaatga	AA071942
72997	gcctcttcatccagggcaatgacct	AA071942
72998	tcttcatccagggcaatgacctcaa	AA071942
72999	tcatccagggcaatgacctcaagat	AA071942
73000	tccagggcaatgacctcaagatcga	AA071942

SEQ ID NO	sequence	DBAxnID
115537	gccccactacctgcgctggtgtgtg	W82697
115538	cccactacctgcgctggtgtgtgct	W82697
115539	caggccacgctcagagcagggaaag	W82697
115540	tacagagctcaaccggaagaaacca	W82697
115541	cagagctcaaccggaagaaaccagg	W82697
115542	gaaaccaggacatcagctaaccctg	W82697
115543	aaccaggacatcagctaaccctgca	W82697
115544	ccaggacatcagctaaccctgcagg	W82697
115545	catcagctaaccctgcaggagagcg	W82697
115546	tcagctaaccctgcaggagagcgcg	W82697
115547	agctaaccctgcaggagagcgcggg	W82697
115548	tgagaactcacacacacacacaagc	W82697
115549	ctacctgcgctggtgtgtgctgtca	W82697
115550	gtgctgtcagcgcccgagatccaga	W82697
115551	atatggctgtggcttcagccgccag	W82697
115552	tcagccgccagaatctcaggccacg	W82697
115553	agccgccagaatctcaggccacgct	W82697
115554	gccagaatctcaggccacgctcaga	W82697
115555	gaatctcaggccacgctcagagcag	W82697
115556	ctcaggccacgctcagagcagggaa	W82697
115557	gcttgctctaagctgggattggcat	M63961
115558	aatctgaacatatccatggaacaca	M63961
115559	gaatgacttctacacagaatggaga	M63961
115560	cttctacacagaatggagaactcaa	M63961
115561	ttctattcctctgaggctcataatc	M63961
115562	tcctctgaggctcataatcacagtg	M63961
115563	cataatcacagtgccaactcttgtg	M63961
115564	cacagtgccaactcttgtgaaacca	M63961
115565	tcttttgctgctatgacatgatttg	M63961
115566	tgatttgcatatctctgaagataaa	M63961
115567	taaatgccttttacaatgtggcaga	M63961
115568	ccttttacaatgtggcagaagcact	M63961
115569	aacatatccatggaacacagctcct	M63961
115570	tccatggaacacagctcctagggcc	M63961
115571	gaacacagctcctagggcctcatgc	M63961
115572	agctcctagggcctcatgctatctg	M63961
115573	tagggcctcatgctatctgcagaca	M63961
115574	ctatctgcagacattggttcccagg	M63961
115575	gcagacattggttcccagggtagac	M63961
115576	gcagtgcccaatgtgggaaggctct	M63961
115577	atgcgagctgccagtcctacctcag	AA104043
115578	tcagcccatcttgaaaacaatctta	AA104043
115579	acagtggtgactgtccgggaaggca	AA104043
115580	gtctatgactctttggacaaggccc	AA104043
115581	gactctttggacaaggccctgaagg	AA104043
115582	tctttggacaaggccctgaaggtgc	AA104043
115583	cggggtctcaaccaggactgctgtg	AA104043
115584	ggtctcaaccaggactgctgtgtgg	AA104043
115585	aaccaggactgctgtgtggtctaca	AA104043
115586	caggactgctgtgtggtctacaggc	AA104043
115587	gtggtctacaggctcatcaaaggaa	AA104043
115588	gtctacaggctcatcaaaggaagaa	AA104043
115589	gcccatcttgaaaacaatcttaggc	AA104043
115590	aggcaacatggaaccaccacgaggc	AA104043
115591	ccctcctgttagtggggctgagcat	AA104043
115592	tctcgggcagttggcactgtcaaag	AA104043
115593	gtgtacctgcctaacaagcaacgca	AA104043
115594	tacctgcctaacaagcaacgcacag	AA104043
115595	ctgcctaacaagcaacgcacagtgg	AA104043
115596	caacgcacagtggtgactgtccggg	AA104043
115597	caagcatgcacatcaaattcaccag	AA118739
115598	gcatgcacatcaaattcaccagaag	AA118739
115599	atgtcttccggctgctgcctttgtg	AA118739
115600	tgctgcctttgtgggcagagctaat	AA118739
115601	tgcctttgtgggcagagctaatcca	AA118739
115602	taatccaagttactgttctctgttc	AA118739
115603	tccaagttactgttctctgttcaaa	AA118739
115604	aagttactgttctctgttcaaatga	AA118739

TABLE 1

SEQ ID NO	sequence	DBAxnID
30397	agccaaggcctgagtacatggcaac	W90978
30398	agtacatggcaacgctgcctgattg	W90978
30399	gtgcaaatacgacggctgtgggaaa	U29513
30400	gaaactctatacaacagctcatcac	U29513
30401	ccggccttaccagtgtgagcattca	U29513
30402	gccttaccagtgtgagcattcaggc	U29513
30403	ttaccagtgtgagcattcaggctgt	U29513
30404	tgagcattcaggctgtgggaaagca	U29513
30405	gcattcaggctgtgggaaagcattt	U29513
30406	aagtcatttcagaactcatactgga	U29513
30407	tcatttcagaactcatactggagaa	U29513
30408	aaagccatatcggtgttcagaagat	U29513
30409	gtctttcaaaacttcaggagatcaa	U29513
30410	tcaacagaaggcacatcagaaccca	U29513
30411	actctatacaacagctcatcacctt	U29513
30412	tacaacagctcatcaccttaaggtc	U29513
30413	aacagctcatcaccttaaggtccat	U29513
30414	agctcatcaccttaaggtccatgag	U29513
30415	ccttaaggtccatgagcgctcacac	U29513
30416	ccatgagcgctcacacacaggagac	U29513
30417	gcgctcacacacaggagaccggcct	U29513
30418	acacacaggagaccggccttaccag	U29513
30419	caggttattcttgacgccatttcaa	D55720
30420	attcttgacgccatttcaaatatct	D55720
30421	gccttccaagttcaggatggagctc	D55720
30422	aacttctaatgtccagctaaggcac	D55720
30423	tgttagctatgtgctgtgctattct	D55720
30424	gctgtgctattctgtgttctcatag	D55720
30425	tcttactgtttctctactaagaact	D55720
30426	actgtacatactctatgaagctgtc	D55720
30427	catactctatgaagctgtcctctga	D55720
30428	ctatgaagctgtcctctgaatttat	D55720
30429	atttcgtaccctgtcatgtcctgta	D55720
30430	taccctgtcatgtcctgtaaataaa	D55720
30431	gacgccatttcaaatatctttcagg	D55720
30432	atttcaaatatctttcaggctgcag	D55720
30433	aatatctttcaggctgcagagaaac	D55720
30434	gtatacaaggcctcattgaacttaa	D55720
30435	aaggcctcattgaacttaattgaga	D55720
30436	ccagaaactacctctgaaggcttcg	D55720
30437	tctgaaggcttcgccttccaagttc	D55720
30438	ggcttcgccttccaagttcaggatg	D55720
30439	gagtcatccaatgaactgcttccag	W91095
30440	gtcatccaatgaactgcttccaggc	W91095
30441	ctatgagctccgtgctgtcgatgtc	W91095
30442	tgagctccgtgctgtcgatgtcgag	W91095
30443	gtgctgtcgatgtcgagtgtctgca	W91095
30444	ctgtcgatgtcgagtgtctgcaacc	W91095
30445	tgtcgatgtcgagtgtctgcaacct	W91095
30446	tgtcgagtgtctgcaacctgtgctg	W91095
30447	tcgagtgtctgcaacctgtgctgga	W91095
30448	cgagtgtctgcaacctgtgctggat	W91095
30449	ggatgctctcgaccttcatgcgctg	W91095
30450	gaccttcatgcgctgtgtcacagac	W91095
30451	tcatccaatgaactgcttccaggct	W91095
30452	atccaatgaactgcttccaggctta	W91095
30453	tccaatgaactgcttccaggcttac	W91095
30454	caatgaactgcttccaggcttacga	W91095
30455	cgagttcccggccatcagcatcgct	W91095
30456	agttcccggccatcagcatcgctca	W91095
30457	gttcccggccatcagcatcgctcag	W91095
30458	tctatgagctccgtgctgtcgatgt	W91095
30459	ctctcgatcacggctctgtgcgaat	W91091
30460	tcgatcacggctctgtgcgaatcac	W91091
30461	agtcttggattcatgccgtacctgg	W91091
30462	cttggattcatgccgtacctggccc	W91091
30463	ggattcatgccgtacctggcccaga	W91091
30464	ttcatgccgtacctggcccagatat	W91091

SEQ ID NO	sequence	DBAxnID
73001	tcgtcacagccttcaatgattggag	AA071942
73002	gcaatgacctcaagatcgatgaaag	AA071942
73003	tcacagccttcaatgattggagtaa	AA071942
73004	cagccttcaatgattggagtaaaga	AA071942
73005	gcctgcagagccgaattgagcagga	AA071942
73006	tcaccgtagtccgggctggccaggt	AA071942
73007	aggtggtccagatccctgtggccga	AA071942
73008	agatccctgtggccgagattgtggt	AA071942
73009	gggacattgcccagatcaaatacgg	AA071942
73010	caactgagccggaattgaaggaatt	AA072055
73011	aactgagccggaattgaaggaattg	AA072055
73012	gacttccagaattccttgacaatga	AA072055
73013	acttccagaattccttgacaatgat	AA072055
73014	cttccagaattccttgacaatgatg	AA072055
73015	ttccagaattccttgacaatgatgg	AA072055
73016	tccagaattccttgacaatgatggc	AA072055
73017	ccagaattccttgacaatgatggca	AA072055
73018	agaattccttgacaatgatggcaag	AA072055
73019	gaattccttgacaatgatggcaaga	AA072055
73020	aattccttgacaatgatggcaagaa	AA072055
73021	attccttgacaatgatggcaagaag	AA072055
73022	ttgaatcttgttgcaattgggacaa	AA072055
73023	tgaatcttgttgcaattgggacaat	AA072055
73024	gaatcttgttgcaattgggacaatg	AA072055
73025	aatcttgttgcaattgggacaatgg	AA072055
73026	atcttgttgcaattgggacaatgga	AA072055
73027	aatggacttccagaattccttgaca	AA072055
73028	atggacttccagaattccttgacaa	AA072055
73029	tggacttccagaattccttgacaat	AA072055
73030	tccagacaaggcacaagtgagactg	X99347
73031	gatcgaatccaaagtcggcatattc	X99347
73032	cttgggtgccaatgtccagtatatg	X99347
73033	tgccaatgtccagtatatgagagtc	X99347
73034	atgggtctgagtggcctcagctgga	X99347
73035	taattccagatgtacagcacatctc	X99347
73036	cagatgtacagcacatctctggaga	X99347
73037	tacagcacatctctggagagtctcc	X99347
73038	acatctctggagagtctccaaaata	X99347
73039	cctcactgacttctccaggaagggc	X99347
73040	aattcaccatctgaccttcatgttt	X99347
73041	ggcactttgtaggtcctcaataccg	X99347
73042	atccaaagtcggcatattcaatgtg	X99347
73043	gcactttgtaggtcctcaataccgg	X99347
73044	cctctaccctgatgtcaatgctgag	X99347
73045	aaggcatattcagctccacgacctc	X99347
73046	cgacctcgacttccagatccgcaag	X99347
73047	cgacttccagatccgcaaggacttc	X99347
73048	ccagatccgcaaggacttcttatac	X99347
73049	ggacttcttatacttgggtgccaat	X99347
73050	cttatacttgggtgccaatgtccag	X99347
73051	tcattgagcccaccgtgttctccaa	X99273
73052	agatctttggtcctgttcaagaaat	X99273
73053	acatcaacaaggctctcatggtatc	X99273
73054	tcaacaaggctctcatggtatcctc	X99273
73055	ctctcatggtatcctccgcaatgca	X99273
73056	tcatggtatcctccgcaatgcaagc	X99273
73057	tggtatcctccgcaatgcaagctgg	X99273
73058	cctccgcaatgcaagctgggacagt	X99273
73059	tcaattgttacaatgccttaaatgc	X99273
73060	gttacaatgccttaaatgcgcagag	X99273
73061	acaatgccttaaatgcgcagagccc	X99273
73062	actcctaagaggccgaggctgaaga	X99273
73063	gagccaataactcagactttggact	X99273
73064	ccaataactcagactttggacttgt	X99273
73065	ataactcagactttggacttgtagc	X99273
73066	actttggacttgtagcagctgtctt	X99273
73067	tagcagctgtcttcactaatgacat	X99273
73068	cagctgtcttcactaatgacatcaa	X99273

SEQ ID NO	sequence	DBAxnID
115605	ttctctgttcaaatgaagcagcttc	AA118739
115606	ttttgaattctccaataaatctgga	AA118739
115607	tgaattctccaataaatctggacaa	AA118739
115608	attctccaataaatctggacaatgc	AA118739
115609	tgcacatcaaattcaccagaagtac	AA118739
115610	tcaaattcaccagaagtacaaccca	AA118739
115611	aattcaccagaagtacaacccatcg	AA118739
115612	tcaccagaagtacaacccatcggcg	AA118739
115613	gaagtacaacccatcggcgcagtca	AA118739
115614	atcggcgcagtcagaggatggagtc	AA118739
115615	tggagtctgatgtcttccggctgct	AA118739
115616	ctgatgtcttccggctgctgccttt	AA118739
115617	aggtctcaggaatctcttcgcttca	W13002
115618	gtctcaggaatctcttcgcttcagc	W13002
115619	tacacttcaatcctcgctctcaatg	W13002
115620	tcaatcctcgctctcaatgcccatg	W13002
115621	tcctcgctctcaatgcccatggaga	W13002
115622	ctctcaatgcccatggagacgccaa	W13002
115623	ctcaatgcccatggagacgccaaca	W13002
115624	atgcccatggagacgccaacaccat	W13002
115625	agacgccaacaccattgtgtgtaac	W13002
115626	acgccaacaccattgtgtgtaacac	W13002
115627	gccaacaccattgtgtgtaacacca	W13002
115628	caacaccattgtgtgtaacaccaag	W13002
115629	ctcaggaatctcttcgcttcagctt	W13002
115630	caggaatctcttcgcttcagcttca	W13002
115631	ttcgcttcagcttcaatcatggcct	W13002
115632	cgcttcagcttcaatcatggcctgt	W13002
115633	cttcagcttcaatcatggcctgtgg	W13002
115634	tcagcttcaatcatggcctgtggtc	W13002
115635	agcttcaatcatggcctgtggtctg	W13002
115636	cttcaatcatggcctgtggtctggt	W13002
115637	gtgctcagagtctaccttggtgctt	M81128
115638	agagtctaccttggtgcttgggacg	M81128
115639	acagtgcccgagtcgttccatccag	M81128
115640	tcgttccatccaggaggaaattagt	M81128
115641	aggcaaggcttggtgtcggctcacg	M81128
115642	gctcacgctggccatgtgtgaagtg	M81128
115643	tgaagtgacctcagtcgtcagtcac	M81128
115644	ccacacctgaggcattgccacaggc	M81128
115645	ctgaggcattgccacaggctggcca	M81128
115646	cattgccacaggctggccatgctca	M81128
115647	cacaggctggccatgctcaacttgt	M81128
115648	atgctcaacttgttcaggaaggtgg	M81128
115649	gtgccctggccacggctgtgctgac	M81128
115650	tgctgactctgcctcctgtggtaca	M81128
115651	ctcctgtggtacagcatgaggccca	M81128
115652	tggtacagcatgaggcccagggaag	M81128
115653	ttctatttctcagcgtgtgcagtga	M81128
115654	caaggctccagggctgtcactctga	M81128
115655	tccagggctgtcactctgatgacaa	M81128
115656	gctgtcactctgatgacaacagtgc	M81128
115657	actcaagttccagaagtgttcctca	M55413
115658	tgtgacactcaggattctgttgcct	M55413
115659	ctgcagtcctgatcagggcccgtgc	M55413
115660	tcctgatcagggcccgtgcactagc	M55413
115661	cccgtgcactagcttggatcttgaa	M55413
115662	tcttgaactgaaccactctggaaaa	M55413
115663	actgaaccactctggaaaattgcca	M55413
115664	attgccactggtaacaaaatcaagc	M55413
115665	atcaagcaccacagagatggccttc	M55413
115666	agagatggccttccaagaagatcac	M55413
115667	agatcaccaagataattccatttt	M55413
115668	tcttagctacaatgtttttggagaa	M55413
115669	actcaggattctgttgcctgtttca	M55413
115670	tgtttcagcactcagagtcccctgc	M55413
115671	agcactcagagtcccctgctgaaga	M55413
115672	cagagtcccctgctgaagaggcaac	M55413

TABLE 1

SEQ ID NO	sequence	DBAxnID
30465	atgccgtacctggcccagatatggt	W91091
30466	ggcgactgctgcatgaccttggatc	W91091
30467	gactgctgcatgaccttggatcagg	W91091
30468	tgctgcatgaccttggatcaggaaa	W91091
30469	tgcatgaccttggatcaggaaatag	W91091
30470	atagtggaacccattcctgaaactg	W91091
30471	acggctctgtgcgaatcactgttat	W91091
30472	tgcgaatcactgttatcagtagccg	W91091
30473	tcactgttatcagtagccgcacaaa	W91091
30474	gtagccgcacaaacaccagtaatcc	W91091
30475	gccgcacaaacaccagtaatccatc	W91091
30476	tgtctcctggaagtttagtgggtat	W91091
30477	actaccgtcgcaagtcttggattca	W91091
30478	accgtcgcaagtcttggattcatgc	W91091
30479	ccagcttcatgccagcatatgtaga	D78188
30480	tcatgccagcatatgtagatttgag	D78188
30481	gtaagagtgccctccttcataaata	D78188
30482	ctttctaagcagtatggaggaagac	D78188
30483	tgtttccacaatgtcattcccttga	D78188
30484	cacaatgtcattcccttgacacagt	D78188
30485	gtcattcccttgacacagttgggtt	D78188
30486	cccttgacacagttgggttctcata	D78188
30487	aagtatcctagttcatgtacatccg	D78188
30488	cctagttcatgtacatccgaatgct	D78188
30489	tcatgtacatccgaatgctaactaa	D78188
30490	acatccgaatgctaactaatactgt	D78188
30491	catatcccatgtgcacaagctcacc	D78188
30492	ccatgtgcacaagctcacctttcca	D78188
30493	gcacaagctcacctttccagaacca	D78188
30494	agaaccagctgggcgcagaagaaag	D78188
30495	ctaaaacaagtagccttctagtcat	D78188
30496	tttattcacttcagctgagctgctg	D78188
30497	cacttcagctgagctgctgtttcct	D78188
30498	agctgagctgctgtttccttcatgt	D78188
30499	catgctggctgtggtgaaatgcctc	AA003580
30500	cttctttgctgaaaggctcaacaag	AA003580
30501	gcttgacctgctggatatccgagca	AA003580
30502	cggcaagtcactgtaccacgatatc	AA003580
30503	caagtcactgtaccacgatatcacg	AA003580
30504	gtcactgtaccacgatatcacggga	AA003580
30505	actgtaccacgatatcacgggagat	AA003580
30506	gtaccacgatatcacgggagatact	AA003580
30507	agatacttctggagactatcgaaag	AA003580
30508	tacttctggagactatcgaaagatt	AA003580
30509	aacgactgagctgtggcagtggctc	AA003580
30510	acgactgagctgtggcagtggctca	AA003580
30511	aaggctcaacaaggctatgagggga	AA003580
30512	ccggaccctgattcgcatcatggtg	AA003580
30513	gattcgcatcatggtgtctcgcagc	AA003580
30514	tcgcatcatggtgtctcgcagcgag	AA003580
30515	ggtgtctcgcagcgagcttgacctg	AA003580
30516	gtctcgcagcgagcttgacctgctg	AA003580
30517	cagcgagcttgacctgctggatatc	AA003580
30518	cgagcttgacctgctggatatccga	AA003580
30519	cagcttatcttttcctatttcaaat	U37465
30520	tgggtttcttccttgttgacagttg	U37465
30521	tgtaaaaatgcactttctttctcca	U37465
30522	ttcagaagtcacgacaacaacaaac	U37465
30523	agtcacgacaacaacaaactcagca	U37465
30524	gacaccatcccttaagaacattgtt	U37465
30525	atcccttaagaacattgttgagtgt	U37465
30526	tctctatggattccgacaggagatt	U37465
30527	ggagattctctgggtcttctttgca	U37465
30528	atttctgttgtcagagtcattttaa	U37465
30529	attttaacctgtgtagctagtggca	U37465
30530	acctgtgtagctagtggcattatat	U37465
30531	tcttccttgttgacagttgggagtt	U37465
30532	tttgagtctgactctgaactctgag	U37465
73069	tcttcactaatgacatcaacaaggc	X99273
73070	ctaatgacatcaacaaggctctcat	X99273
73071	caggccagcttaacctgttcacaca	U34042
73072	agcttaacctgttcacacaaatgat	U34042
73073	tctctctggggaagtgctgaatagt	U34042
73074	gaatagtctccaaattcaagaaact	U34042
73075	tctccaaattcaagaaactcaccat	U34042
73076	aattcaagaaactcaccatgtctta	U34042
73077	tgtgtgcagccatcttccaaatgac	U34042
73078	aaatgactgcctggatgtttcttag	U34042
73079	ctgcctggatgtttcttagtccagt	U34042
73080	ttcttagtccagttactactgctgc	U34042
73081	gtccagttactactgctgctgctat	U34042
73082	ttactactgctgctgctattggtct	U34042
73083	acctgttcacacaaatgattttgtg	U34042
73084	ttttgtgaccacttcattgtatctg	U34042
73085	gaccacttcattgtatctgtatctt	U34042
73086	ttcattgtatctgtatcttgagaag	U34042
73087	aatgcagttaatccctagatatcgg	U34042
73088	gttaatccctagatatcggataata	U34042
73089	atatcggataatacccagttcacta	U34042
73090	ttcactagtaaactcatttctctct	U34042
73091	tgttgatgtgcaattccgtgaggga	AA071871
73092	ttgatgtgcaattccgtgagggatt	AA071871
73093	caactatcctaaattgcttggaaat	AA071871
73094	aactatcctaaattgcttggaaatg	AA071871
73095	ctatcctaaattgcttggaaatgca	AA071871
73096	tatcctaaattgcttggaaatgcaa	AA071871
73097	ggcctgagaccttgggcagaatgtt	AA071871
73098	gcctgagaccttgggcagaatgttg	AA071871
73099	agaccttgggcagaatgttgatgtc	AA071871
73100	atgtcatttgagagctcttggtgtg	AA071871
73101	tcatttgagagctcttggtgtgaga	AA071871
73102	catttgagagctcttggtgtgagag	AA071871
73103	gatgtgcaattccgtgagggattaa	AA071871
73104	atgtgcaattccgtgagggattaac	AA071871
73105	tgtgcaattccgtgagggattaaca	AA071871
73106	tgcaattccgtgagggattaacaac	AA071871
73107	ggattaacaactatcctaaattgct	AA071871
73108	attaacaactatcctaaattgcttg	AA071871
73109	ttaacaactatcctaaattgcttgg	AA071871
73110	taacaactatcctaaattgcttgga	AA071871
73111	ctgagctctacggggcagccaacca	D49654
73112	tctacggggcagccaaccaggactc	D49654
73113	tgattgccacagccttcaccaatgg	D49654
73114	ccacagccttcaccaatgggtacca	D49654
73115	tcaccaatgggtaccactgaaacag	D49654
73116	cccagcctgcagctgactgaggacc	D49654
73117	gaccagactgagccagcaaggggat	D49654
73118	cagactgagccagcaaggggattgg	D49654
73119	ctgccacttggaccgctactgcctg	D49654
73120	tcatgtctggctccccctactaacct	D49654
73121	tcctgttcagaccttgtctcttctc	D49654
73122	cccccagaaaggcatagctggaggg	D49654
73123	cagccaaccaggactccggggtcag	D49654
73124	aggactccggggtcagcagttacat	D49654
73125	actccggggtcagcagttacatcag	D49654
73126	tcagcagttacatcagcgccgccag	D49654
73127	ccagcactggtttcggccacagtct	D49654
73128	gcactggtttcggccacagtcttgg	D49654
73129	gtcccttgattgccacagccttcac	D49654
73130	ccttgattgccacagccttcaccaa	D49654
73131	agtgcctcaggagactgcacagact	D78641
73132	cccatgccttaggggtgcatggaag	D78641
73133	gcaaggccccagagggacaggctcc	D78641
73134	ttcccaggactgccttgccactctt	D78641
73135	gatactgtacattgtctcaatgcct	D78641
73136	tgtctcaatgcctgtttttacatat	D78641
115673	tctccggcagagctgaaagacatgg	M55413
115674	tttgcctctaagtgctgctctataa	M55413
115675	ctctactgcagctcacagattgatg	M55413
115676	atgatagacaccctgcagtcctgat	M55413
115677	gagcctgacctactgccctgctatt	J05504
115678	ccagcaatgacacgggtctccaact	J05504
115679	cgccctcaacttagctccactgtga	J05504
115680	caacttagctccactgtgagttaga	J05504
115681	ggaaattgccacctgaaggaaagag	J05504
115682	agattctcggggtttgcaggaggca	J05504
115683	aggcagtcctgtgtcacaaatactc	J05504
115684	cccacacagtgcactgaggagaaga	J05504
115685	agaggcatggggttgccttgcttct	J05504
115686	ttgccttgcttctcctatgagcaaa	J05504
115687	tgcttctcctatgagcaaaacccat	J05504
115688	tcctatgagcaaaacccattaaagt	J05504
115689	cacagcagctcagccactgtggaaa	J05504
115690	agctcagccactgtggaaagattag	J05504
115691	gggacctaaccagcgcagtcatcag	J05504
115692	taaccagcgcagtcatcagatgtga	J05504
115693	tcatcagatgtgacctctgagagag	J05504
115694	gatgtgacctctgagagaggatgga	J05504
115695	gactgaaatacccagtcactcccgt	J05504
115696	agctgcctagcagacagtgattcct	J05504
115697	aagctgcgtcggggcgcacaggtta	W15637
115698	aatggctactccacagtcagttttc	W15637
115699	ggcctgtagtcgctactatgatatc	W15637
115700	ctgtagtcgctactatgatatctta	W15637
115701	tagtcgctactatgatatcttaggt	W15637
115702	tgatatcttaggtgtgcctaagtct	W15637
115703	cttaggtgtgcctaagtctgcctca	W15637
115704	taagtctgcctcagagcgacaaatc	W15637
115705	gtctgcctcagagcgacaaatcaaa	W15637
115706	tgcctcagagcgacaaatcaaaaag	W15637
115707	aaaggcctttcacaaattagccatg	W15637
115708	ctttcacaaattagccatgaagtac	W15637
115709	tactccacagtcagttttcgtcttt	W15637
115710	tccacagtcagttttcgtctttgca	W15637
115711	acagtcagttttcgtctttgcaatc	W15637
115712	agttttcgtctttgcaatctgcatt	W15637
115713	cgtctttgcaatctgcattttaatg	W15637
115714	agaattaatcctggcctgtagtcgc	W15637
115715	attaatcctggcctgtagtcgctac	W15637
115716	aatcctggcctgtagtcgctactat	W15637
115717	tacagtcacagcatcattacgaacc	M24119
115718	cacagcatcattacgaacctccttt	M24119
115719	catcttggccacttcagcaagttca	M24119
115720	ggccacttcagcaagttcattcccg	M24119
115721	ttcagcaagttcattcccgagggat	M24119
115722	agtgatcctgacctgggcttcctgg	M24119
115723	ttcctggagaccgtgtcacctggct	M24119
115724	gagaccgtgtcacctggctactcca	M24119
115725	cgtcgccagtgatggaactgacacc	M24119
115726	tggaactgacacctgagcaggcacc	M24119
115727	ctgagcaggcacctgggcttagcat	M24119
115728	aggcacctgggcttagcatggacat	M24119
115729	taccacgtaactggatggacggact	M24119
115730	cttgccctgaatcctgaaggagggc	M24119
115731	tgggtccgcaactttgtcgatagcc	M24119
115732	cgcaactttgtcgatagccccatta	M24119
115733	gatagccccattattgtcgacatcc	M24119
115734	cccattattgtcgacatccccaaag	M24119
115735	attgtcgacatccccaaagacgcat	M24119
115736	gacatccccaaagacgcattttaca	M24119
115737	tggagctctaagcttctagatcatt	M13926
115738	agctctaagcttctagatcattctc	M13926
115739	taaacagcagtgttcccaaactggg	M13926
115740	gttcttatatcccttgctctggtca	M13926

TABLE 1

SEQ ID NO	sequence	DBAxnID
30533	tctgactctgaactctgagatatct	U37465
30534	gatatcttggtgcctagccttcacg	U37465
30535	ttggtgcctagccttcacgtttatt	U37465
30536	ctgtgtccacctgtgtacaccaaaa	U37465
30537	acagtttctccaagagctataggct	U37465
30538	tctccaagagctataggctgtaaaa	U37465
30539	agagtgcatcgagctcgtcgacacg	W91235
30540	gagtgcatcgagctcgtcgacacga	W91235
30541	tggatagcatgtggcctggtactgt	W91235
30542	gtcccacctgttagaagcgtcagcg	W91235
30543	tcccacctgttagaagcgtcagcgg	W91235
30544	cccacctgttagaagcgtcagcggg	W91235
30545	ccacctgttagaagcgtcagcgggc	W91235
30546	cctgttagaagcgtcagcgggcagc	W91235
30547	ctgttagaagcgtcagcgggcagca	W91235
30548	tagaagcgtcagcgggcagcaaagc	W91235
30549	agaagcgtcagcgggcagcaaagct	W91235
30550	agcgtcagcgggcagcaaagctgta	W91235
30551	agtgcatcgagctcgtcgacacgag	W91235
30552	gcatcgagctcgtcgacacgagttg	W91235
30553	catcgagctcgtcgacacgagttga	W91235
30554	atcgagctcgtcgacacgagttgag	W91235
30555	cgagctcgtcgacacgagttgagat	W91235
30556	gagctcgtcgacacgagttgagatc	W91235
30557	gctcgtcgacacgagttgagatcgt	W91235
30558	tcgtcgacacgagttgagatcgtgg	W91235
30559	tgtcatgcagcatcattgactttgg	L19057
30560	catgcagcatcattgactttggaag	L19057
30561	gcttggcatggcctgaatttgctga	L19057
30562	catggcctgaatttgctgagtagcc	L19057
30563	tcacagtcatgtaacactgtgtata	L19057
30564	tcatgtaacactgtgtatagcttgg	L19057
30565	atttctaacagccactgtatgatca	L19057
30566	tctaacagccactgtatgatcaagg	L19057
30567	aacagccactgtatgatcaaggtca	L19057
30568	agccactgtatgatcaaggtcatta	L19057
30569	tatcacccaagcttatagatcagat	L19057
30570	cacccaagcttatagatcagatagg	L19057
30571	gcagcatcattgactttggaaggaa	L19057
30572	gcatcattgactttggaaggaagca	L19057
30573	gatgcttaagtccgtatgtgtccgt	L19057
30574	gcttaagtccgtatgtgtccgtaga	L19057
30575	taagtccgtatgtgtccgtagacca	L19057
30576	tctgacatagcttggcatggcctga	L19057
30577	gacatagcttggcatggcctgaatt	L19057
30578	atagcttggcatggcctgaatttgc	L19057
30579	cgacctgtggccggatgacagctac	D49956
30580	tgggcacttcaagttccaggatcag	D49956
30581	tgtggcacctttaagagccagagcc	D49956
30582	cagagccctgctggtggaactgagt	D49956
30583	atgggccttgctttataggtgagca	D49956
30584	ttataggtgagcaccgcttactgtc	D49956
30585	gtgagcaccgcttactgtctgctca	D49956
30586	tactgtctgctcacactccggctac	D49956
30587	ctgtgtcagattttccacgatggac	D49956
30588	cagattttccacgatggactgtatc	D49956
30589	gatggactgtatccccagatggatg	D49956
30590	ctgtatccccagatggatgagctga	D49956
30591	gttccaggatcaggacacgatcctc	D49956
30592	gatcctcagttactcgctgcgagag	D49956
30593	cagttactcgctgcgagaggtggac	D49956
30594	cagaagtctggctggttctggccac	D49956
30595	tggccactcaggatgctacacagcc	D49956
30596	ctcaggatgctacacagccgcaagc	D49956
30597	atgctacacagccgcaagctgtcgg	D49956
30598	cacagccgcaagctgtcggaccaag	D49956
30599	agcacagaatcgcactgttcctagg	W91356
30600	acagaatcgcactgttcctaggcca	W91356

SEQ ID NO	sequence	DBAxnID
73137	tttggtcaggttggcattgatcctt	D78641
73138	ggcattgatcctttcttaagatgct	D78641
73139	gatcctttcttaagatgctgtgaga	D78641
73140	tgtgagaaccatttcatccaatgcc	D78641
73141	aaccatttcatccaatgccaaataa	D78641
73142	ttcatccaatgccaaataaacttgt	D78641
73143	ccttaggggtgcatggaaggcctct	D78641
73144	tttagactattgctattccagttcc	D78641
73145	ctattccagttccaagcactggagt	D78641
73146	cagttccaagcactggagtctgcca	D78641
73147	caagcactggagtctgccagatctc	D78641
73148	agatctcactggtgaataatcccaa	D78641
73149	tgaataatcccaaatccaagatttg	D78641
73150	atcccaaatccaagatttgatgagg	D78641
73151	tttcggctcgacattgtaagaacag	AA072149
73152	ttgtggctgtccacagaacactggg	AA072149
73153	ctattctcactgatccgaacatctc	AA072149
73154	ttctcactgatccgaacatctctct	AA072149
73155	tcactgatccgaacatctctcttcg	AA072149
73156	ctgatccgaacatctctcttcgctg	AA072149
73157	ctcttcgctggtaggaagaaggtga	AA072149
73158	tcctgcccgtgaggactaagagatc	AA072149
73159	ttcttcctagggcccttccattgct	AA072149
73160	ctagggcccttccattgctcctgtg	AA072149
73161	gggcccttccattgctcctgtgtta	AA072149
73162	cccttccattgctcctgtgttacca	AA072149
73163	tggctgtccacagaacactggggat	AA072149
73164	tccacagaacactggggatccaaac	AA072149
73165	ggatccaaaccactgctagctaggt	AA072149
73166	aaaccactgctagctaggtgaagcc	AA072149
73167	ccactgctagctaggtgaagcctcg	AA072149
73168	agtgaggtctcgcggaagtgctccg	AA072149
73169	ccaagcagcccggggcttgggctat	AA072149
73170	cttgggctattctcactgatccgaa	AA072149
73171	ggcttcctcaaggactgtccgagcg	D21165
73172	gagttccagcagctctatgtgaagt	D21165
73173	atggtgggcaccgtgatcatgatga	D21165
73174	gatggcctgacgcctgaacagcggg	D21165
73175	attgtattacttctgcagtgtgaca	D21165
73176	ttacttctgcagtgtgacattcaga	D21165
73177	gctatggactgcacacaagtcttga	D21165
73178	gactgcacacaagtcttgatgttcc	D21165
73179	gtcttgatgttccattcagtctgca	D21165
73180	atgttccattcagtctgcagctaca	D21165
73181	cattcagtctgcagctacacacaca	D21165
73182	gtctgcagctacacacacacacaca	D21165
73183	aagttcgcgcagcacgccttccgca	D21165
73184	ttccgcaccttcgacaagaacggtg	D21165
73185	accttcgacaagaacggtgatggca	D21165
73186	ttcatctgtgccctgtccatcacct	D21165
73187	tgtgccctgtccatcacctccagag	D21165
73188	atcacctccagaggtagctttgagc	D21165
73189	atgtatgatctggacggtgacggca	D21165
73190	aagatcacccgagtggagatgctgg	D21165
73191	ctgtgagcttcctaagttagagaaa	AA072168
73192	acggcttagagctactgcagaaaga	AA072168
73193	gtaaacgctatcagcaagaagtaga	AA072168
73194	aaacgctatcagcaagaagtagacc	AA072168
73195	tctgcccagattgcaaagcctatcc	AA072168
73196	tgcccagattgcaaagcctatccgc	AA072168
73197	cagattgcaaagcctatccgccctg	AA072168
73198	gattgcaaagcctatccgccctgga	AA072168
73199	ttgcaaagcctatccgccctggaca	AA072168
73200	aaagcctatccgccctggacagcat	AA072168
73201	tatccgccctggacagcatccagcg	AA072168
73202	caactcacccaggcacagttcgtgg	AA072168
73203	agctttggagtcagccctgaaagaa	AA072168
73204	atttgttcagaacaaccagccagtg	AA072168

SEQ ID NO	sequence	DBAxnID
115741	cttatatcccttgctctggtcaacc	M13926
115742	atatcccttgctctggtcaaccagg	M13926
115743	cttgctctggtcaaccaggttgcag	M13926
115744	tttcctgtcctcacaggaacgaagt	M13926
115745	cacctgtcactatagccaagcttgc	M13926
115746	ctgtcactatagccaagcttgcgga	M13926
115747	ctatagccaagcttgcggataataa	M13926
115748	tagccaagcttgcggataataaagt	M13926
115749	cttctagatcattctctccacttcc	M13926
115750	ctagatcattctctccacttccgag	M13926
115751	aagtattgattcctgctgctgctcc	M13926
115752	tattgattcctgctgctgctccagg	M13926
115753	ctgctgctccaggcacccagttctg	M13926
115754	aatcagtgagccctgccgtgctgag	M13926
115755	cagtgagccctgccgtgctgaggca	M13926
115756	ccgtgctgaggcaccatctcagggg	M13926
115757	gcctcttccttcaggacctgcctgg	AA039110
115758	tcttccttcaggacctgcctggagc	AA039110
115759	cactgcattgtttccaagtcttagg	AA039110
115760	tgcattgtttccaagtcttagggat	AA039110
115761	ataagccatggtgttttgaatgggt	AA039110
115762	tcaataagtattcatcccttatagg	AA039110
115763	ataagtattcatcccttataggtgt	AA039110
115764	agtattcatcccttataggtgtgta	AA039110
115765	attcatcccttataggtgtgtagtg	AA039110
115766	catcccttataggtgtgtagtgttt	AA039110
115767	gtttggtccttgtgtactgtgatta	AA039110
115768	tggtccttgtgtactgtgattactc	AA039110
115769	tccttcaggacctgcctggagcctg	AA039110
115770	ttcaggacctgcctggagcctgctg	AA039110
115771	tgcctggagcctgctgcttctattt	AA039110
115772	tttttatagaacactcactgcattg	AA039110
115773	ttatagaacactcactgcattgttt	AA039110
115774	tagaacactcactgcattgtttcca	AA039110
115775	aacactcactgcattgtttccaagt	AA039110
115776	actcactgcattgtttccaagtctt	AA039110
115777	tctcaggctataccctgaggtcacc	M58288
115778	caggctataccctgaggtcacccac	M58288
115779	aatttcagtccattgaactgattgt	M58288
115780	ttcagtccattgaactgattgtagg	M58288
115781	tttcagaaattctggctggatgtgg	M58288
115782	gtacatgcctagcatcccaacatct	M58288
115783	catgcctagcatcccaacatctggg	M58288
115784	ttgcaagttccaggccagcctggct	M58288
115785	gttccaggccagcctggctagccta	M58288
115786	cagcctggctagcctacatagtgag	M58288
115787	cctggctagcctacatagtgagatc	M58288
115788	ggctagcctacatagtgagatccaa	M58288
115789	ccactctcacactctaaggttcaga	M58288
115790	ctctcacactctaaggttcagatag	M58288
115791	atagatactgcttacagcccaatgg	M58288
115792	gatactgcttacagcccaatggtca	M58288
115793	gcttacagcccaatggtcaccattc	M58288
115794	tacagcccaatggtcaccattcgtc	M58288
115795	atggtcaccattcgtctttcatata	M58288
115796	gtcaccattcgtctttcatataatt	M58288
115797	gactcacatatgcgggataaactcc	W15780
115798	ccccatatttcctgtatcaaagcta	W15780
115799	agtatgtctacatcaactacctttt	W15780
115800	atgtctacatcaactacctttttctt	W15780
115801	tctacatcaactacctttttcttcag	W15780
115802	tcaactacctttttcttcagccaagt	W15780
115803	tcttcagccaagtacctcggcgtaa	W15780
115804	tcagccaagtacctcggcgtaatca	W15780
115805	gccaagtacctcggcgtaatcacag	W15780
115806	tacctcggcgtaatcacagaagatg	W15780
115807	ttgttgcccgataccgctaccaaga	W15780
115808	gataccgctaccaagaagtggtggt	W15780

09/396196

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
30601	gctcgcaatggtcgcactgctggtc	W91356	73205	tcagccctgaaagaagccaaagaaa	AA072168	115809	atttcctgtatcaaagctattgaca	W15780
30602	cgcaatggtcgcactgctggtcacc	W91356	73206	tgcatctcgagaccgtaaacgctat	AA072168	115810	aaagctattgacatctacatccttg	W15780
30603	gctggtcaccatctgtagcctggaa	W91356	73207	catctcgagaccgtaaacgctatca	AA072168	115811	gctattgacatctacatccttgtat	W15780
30604	ggtcaccatctgtagcctggaagga	W91356	73208	tctcgagaccgtaaacgctatcagc	AA072168	115812	attgacatctacatccttgtatgcc	W15780
30605	tatgcggagcctgttcgctcaatac	W91356	73209	gagaccgtaaacgctatcagcaaga	AA072168	115813	atctacatccttgtatgcctattct	W15780
30606	gagcctgttcgctcaatactgtcag	W91356	73210	gaccgtaaacgctatcagcaagaag	AA072168	115814	ttcgttttccctgtcgactgctgga	W15780
30607	cgctcaatactgtcagagcaggagt	W91356	73211	ccgtaaacgctatcagcaagaagta	AA072168	115815	gttttccctgtcgactgctggagta	W15780
30608	tcaatactgtcagagcaggagtgat	W91356	73212	gaattcatctcagaatactgtgggg	U52951	115816	ttccctgtcgactgctggagtatgt	W15780
30609	atactgtcagagcaggagtgattag	W91356	73213	atgtgcagctttctgttcaacttga	U52951	115817	aaagctgtcaactatggaaggtgtg	W15781
30610	caaggccgcgagagatgcagaggca	W91356	73214	cttctctctgaaacagctgccttag	U52951	115818	aagctgtcaactatggaaggtgtga	W15781
30611	tcgcactgttcctaggccatagtct	W91356	73215	ctctctgaaacagctgccttagctt	U52951	115819	gtattggaccacacagttttgaaga	W15781
30612	gccatagtctgccatcatgaagctg	W91356	73216	tctgaaacagctgccttagcttcag	U52951	115820	tattggaccacacagttttgaagat	W15781
30613	atagtctgccatcatgaagctgctc	W91356	73217	acagctgccttagcttcaggaacct	U52951	115821	attggaccacacagttttgaagatg	W15781
30614	gtctgccatcatgaagctgctcgca	W91356	73218	gctgccttagcttcaggaaccttga	U52951	115822	ttggaccacacagttttgaagatga	W15781
30615	catcatgaagctgctcgcaatggtc	W91356	73219	gccttagcttcaggaaccttgagta	U52951	115823	tggaccacacagttttgaagatgaa	W15781
30616	catgaagctgctcgcaatggtcgca	W91356	73220	ggaaccttgagtactgtgggcaatt	U52951	115824	ggaccacacagttttgaagatgaag	W15781
30617	gaagctgctcgcaatggtcgcactg	W91356	73221	ttattgccttctcaccagctgcaaa	U52951	115825	gagatgacaactcggcttcgctcgg	W15781
30618	gctgctcgcaatggtcgcactgctg	W91356	73222	ccttctcaccagctgcaaagtgttt	U52951	115826	agatgacaactcggcttcgctcgga	W15781
30619	gagtggctttgcttttcttgggcac	D38023	73223	tctcaccagctgcaaagtgttttgt	U52951	115827	gatgacaactcggcttcgctcggac	W15781
30620	catcagataacaccacattcacaag	D38023	73224	tgcagctttctgttcaacttgaaca	U52951	115828	atgacaactcggcttcgctcggact	W15781
30621	cccaaaaacactcagctgttccgat	D38023	73225	agctttctgttcaacttgaacaatg	U52951	115829	tgacaactcggcttcgctcggactc	W15781
30622	atttcctctctctaaaaatgctagg	D38023	73226	gtggatgcaacccgaaagggcaaca	U52951	115830	gacaactcggcttcgctcggactcg	W15781
30623	tctctctaaaaatgctaggaggctt	D38023	73227	attcgttttgctaatcattcagtaa	U52951	115831	acaactcggcttcgctcggactcgg	W15781
30624	aatgtatctgcatctaacattctgt	D38023	73228	tcagtaaatccaaactgctatgcaa	U52951	115832	caactcggcttcgctcggactcggg	W15781
30625	tctgcatctaacattctgtgtaagc	D38023	73229	gtaaatccaaactgctatgcaaaag	U52951	115833	tggccagacctgaccggccttctct	L02844
30626	attctgtgtaagcggtcgtgtcttt	D38023	73230	aatccaaactgctatgcaaaagtta	U52951	115834	cctcacgcattgtgccacgtctgct	L02844
30627	tgtaagcggtcgtgtctttgcacag	D38023	73231	aatggtgaccacaggataggcatct	U52951	115835	gttgtaatcgtcactaacacttctt	L02844
30628	tgtctttgcacagttaatgcactcc	D38023	73232	ttctttatcaatcaccttctgcccc	X90647	115836	atcgtcactaacacttcttcttctc	L02844
30629	gttaatgcactcctgcattggcaaa	D38023	73233	caacatggcctgctcctgcttaaga	X90647	115837	gtcactaacacttcttcttctctga	L02844
30630	gcactcctgcattggcaaataaaga	D38023	73234	tcctctgcttcttgagcccacacat	X90647	115838	tcttctctgacccccttgatactcta	L02844
30631	ccacattcacaagtttagcttcttt	D38023	73235	taccctaccaggcacaatgctctac	X90647	115839	agttggcttttcttctacaaagatg	L02844
30632	tcacaagtttagcttctttggtagc	D38023	73236	aagattttggctgtagcctttgata	X90647	115840	tggcttttcttctacaaagatgttg	L02844
30633	gtttagcttctttggtagccaatgt	D38023	73237	ctacagaccatttctgtgctaactt	X90647	115841	ggaccttctgtggagatggtgcctt	L02844
30634	cttctttggtagccaatgtctgtta	D38023	73238	tctgtgctaactttagaatgattag	X90647	115842	ggtcctggacgctgagcagacagaa	L02844
30635	tacaatcagctgctgttaccttaaa	D38023	73239	ttcttttgggacccacagtctcagt	X90647	115843	cctggacgctgagcagacagaacgg	L02844
30636	cagctgctgttaccttaaaactagg	D38023	73240	ccacagtctcagtgctgcaagtcca	X90647	115844	attaaaagtggcgcagctgtcacat	L02844
30637	acttgagacgacgatgatggcaggt	D38023	73241	aatcccaactgcctcttgactggct	X90647	115845	gcattgtgccacgtctgcttctcca	L02844
30638	tggtgtcccaaaaacactcagctgt	D38023	73242	aactgcctcttgactggctcaagat	X90647	115846	ttgtgccacgtctgcttctccaacc	L02844
30639	gctccaaattggcagcggcatcctg	W91471	73243	ctcttgactggctcaagatttaggt	X90647	115847	gctccatcctgtgcctcagtcactg	L02844
30640	tccaaattggcagcggcatcctggg	W91471	73244	gcagctctgtgagccacaaacctag	X90647	115848	ccatcctgtgcctcagtcactgcag	L02844
30641	actgtctcacacgtctcatcgatca	W91471	73245	ctgtgagccacaaacctaggtgttt	X90647	115849	gcctcagtcactgcagctggatgtg	L02844
30642	tcgatcatcgacgccgacggcctgg	W91471	73246	gccacaaacctaggtgttttagcag	X90647	115850	gtcactgcagctggatgtgttcctg	L02844
30643	gatcatcgacgccgacggcctggtc	W91471	73247	cagccttaccctagagtctgtgtta	X90647	115851	ggatgtgttcctgttgtaatcgtca	L02844
30644	tcatcgacgccgacggcctggtcta	W91471	73248	aggcccagcctctattgctgatgcc	X90647	115852	gttcctgttgtaatcgtcactaaca	L02844
30645	atcgacgccgacggcctggtctatg	W91471	73249	agcctctattgctgatgcctcgtcc	X90647	115853	tccctgctgctggtgacgctggacc	M62301
30646	acgccgacggcctggtctatgcggt	W91471	73250	tattgctgatgcctcgtccagccca	X90647	115854	ctgctgctggtgacgctggacccac	M62301
30647	cgacggcctggtctatgcggtggaa	W91471	73251	cagcccaggacgtggaagtctgcta	X90647	115855	ttctgccagggcacgtgcgcactac	M62301
30648	acggcctggtctatgcggtggaatg	W91471	73252	acccagatgttctcactgaagttcc	AA072198	115856	acgtgcgcactacccgaaacgctga	M62301
30649	cctggtctatgcggtggaatgctcc	W91471	73253	cagatgttctcactgaagttccagc	AA072198	115857	tgcgcactacccgaaacgctgaggg	M62301
30650	tggtctatgcggtggaatgctccca	W91471	73254	catccggggcttttatggcattgaa	AA072198	115858	gcactcaaccacgctgtgctgcgcg	M62301
30651	ggaccagatccacatcaagcccaag	W91471	73255	acatgtgttggccttggacatcttg	AA072198	115859	gagcgtctatcacccatctccgtgc	M62301
30652	accagatccacatcaagcccaagtc	W91471	73256	catcttgatccggaaaccctgtgta	AA072198	115860	atctccgtgctcttcttcgacaata	M62301
30653	gatccacatcaagcccaagtccaaa	W91471	73257	gctgctcaagtttgaccggaagcag	AA072198	115861	tccgtgctcttcttcgacaatagtg	M62301
30654	tccacatcaagcccaagtccaaagt	W91471	73258	tgaccggaagcagcttcgatccgtt	AA072198	115862	ctcttcttcgacaatagtgacaacg	M62301
30655	cacatcaagcccaagtccaaagtgt	W91471	73259	gaagcagcttcgatccgttttgaat	AA072198	115863	ttcttcgacaatagtgacaacgtgg	M62301
30656	catcaagcccaagtccaaagtgttg	W91471	73260	caaattcatcaaatgcagaatgagg	AA072198	115864	ctgcgacactacgaagacatggtgg	M62301
30657	tcaagcccaagtccaaagtgttgta	W91471	73261	agagactgctgcagatgggaagacc	AA072198	115865	cacacggagcccagggtagaagttg	M62301
30658	ccactgtctcacacgtctcatcgat	W91471	73262	ccataactactacttcatcaattac	AA072198	115866	gttggtccagtgggcacttgtcgta	M62301
30659	gaaaccatctaaaacagccagcaag	D38046	73263	taactactacttcatcaattaccgc	AA072198	115867	acttgtcgtacccgacggttgcatg	M62301
30660	aacatcttttgatcaggattcagat	D38046	73264	atgttctcactgaagttccagcagc	AA072198	115868	cgtggcttcctagccaacttctgcc	M62301
30661	ttcttacacatacagttttatgctc	D38046	73265	ttctcactgaagttccagcagcatt	AA072198	115869	ggcttcctagccaacttctgccagg	M62301
30662	ctttttactcattgaaatgtcatg	D38046	73266	ctgaagttccagcagcattgaagcg	AA072198	115870	ttcctagccaacttctgccagggca	M62301
30663	tgtcatgtgttgtctgattggcttg	D38046	73267	aagttccagcagcattgaagcgggt	AA072198	115871	ctagccaacttctgccagggcacgt	M62301
30664	gtgttgtctgattggcttgtagaat	D38046	73268	ttccagcagcattgaagcgggtagc	AA072198	115872	aacttctgccagggcacgtgcgcac	M62301
30665	tagattaccgtgcattagcacagat	D38046	73269	caagtatgtcatccggggcttttat	AA072198	115873	aggatcggacgctttgtgatcgaag	J04953
30666	attaccgtgcattagcacagatttt	D38046	73270	gtatgtcatccggggcttttatggc	AA072198	115874	gaagacctggctactgatgacgtca	J04953
30667	accgtgcattagcacagattttaat	D38046	73271	tgtcatccggggcttttatggcatt	AA072198	115875	gatcctttggaccgggccttggctg	J04953
30668	ttgcagactacagatctgctttttg	D38046	73272	cccatctctctgcaaggaggcagaa	AA072227	115876	ttggctgagctggctgcctgagtaa	J04953

TABLE 1

SEQ ID NO	sequence	DBAxnID
30669	cagactacagatctgctttttgaaa	D38046
30670	actacagatctgcttttttgaaatga	D38046
30671	atcttttgatcaggattcagatgta	D38046
30672	agatgtagacatcttcccctcagac	D38046
30673	cttcccctcagacttcacttctgaa	D38046
30674	ctcagacttcacttctgaaccaccg	D38046
30675	ttttgcagagtctgatgaagaagaa	D38046
30676	ttaagtgcccaaagagcacgaacat	D38046
30677	agtgcccaaagagcacgaacatttt	D38046
30678	ttgttcttacacatacagttttatg	D38046
30679	aatcagatctgagttcaggaggcac	W91495
30680	atcagatctgagttcaggaggcacc	W91495
30681	ctagtacagccagcgagacgccaag	W91495
30682	tagtacagccagcgagacgccaagg	W91495
30683	agtacagccagcgagacgccaaggg	W91495
30684	gtacagccagcgagacgccaagggt	W91495
30685	gtgactaccgtatgggcacttcggt	W91495
30686	tgactaccgtatgggcacttcggta	W91495
30687	taccgtatgggcacttcggtacctg	W91495
30688	ggcacttcggtacctgtttgcgtgg	W91495
30689	tcagatctgagttcaggaggcacct	W91495
30690	agttcaggaggcacctatggcaagt	W91495
30691	ttcaggaggcacctatggcaagtcc	W91495
30692	caggaggcacctatggcaagtccct	W91495
30693	aggcacctatggcaagtccctgtac	W91495
30694	ggcacctatggcaagtccctgtact	W91495
30695	cacctatggcaagtccctgtactag	W91495
30696	actagtacagccagcgagacgccaa	W91495
30697	aagattctgcgcggtctggcagttg	W91503
30698	ctggcagttggcattgcggtagtga	W91503
30699	agtctcgctgtcgtgagaaggacgc	W91503
30700	tctcgctgtcgtgagaaggacgcaa	W91503
30701	ctcgctgtcgtgagaaggacgcaat	W91503
30702	tagactgtagccatggcttatggtg	W91503
30703	agactgtagccatggcttatggtgg	W91503
30704	actgtagccatggcttatggtggct	W91503
30705	ctgtagccatggcttatggtggctc	W91503
30706	gtagccatggcttatggtggctctg	W91503
30707	tggcttatggtggctctggtaacaa	W91503
30708	atggtggctctggtaacaagcaagc	W91503
30709	tggcagttggcattgcggtagtgat	W91503
30710	gcagttggcattgcggtagtgatgt	W91503
30711	cagttggcattgcggtagtgatgta	W91503
30712	gttggcattgcggtagtgatgtacg	W91503
30713	ttggcattgcggtagtgatgtacgg	W91503
30714	aggctgatgctctcattgagtctcg	W91503
30715	gctgatgctctcattgagtctcgct	W91503
30716	gagtctcgctgtcgtgagaaggacg	W91503
30717	catctttgtgctaggaaggagtatg	W91509
30718	tatgggcttcattgggcactacctt	W91509
30719	tcatcacccctgggatgacatttcc	W91509
30720	tcacccctgggatgacatttcctat	W91509
30721	tgacatttcctatgttcttccagaa	W91509
30722	catttcctatgttcttccagaacac	W91509
30723	ttcctatgttcttccagaacacatg	W91509
30724	tgttcttccagaacacatgagcatg	W91509
30725	tcttccagaacacatgagcatgtaa	W91509
30726	tccagtataggctgggcctggagcg	W91509
30727	tataggctgggcctggagcggaaat	W91509
30728	ataggctgggcctggagcggaaata	W91509
30729	cttcattgggcactaccttgaccag	W91509
30730	cattgggcactaccttgaccagaag	W91509
30731	tgggcactaccttgaccagaagagg	W91509
30732	gcactaccttgaccagaagaggctg	W91509
30733	ctaccttgaccagaagaggctgaag	W91509
30734	agggctgtatcatcacccctgggat	W91509
30735	gctgtatcatcaccccctgggatgac	W91509
30736	gtatcatcaccccctgggatgacatt	W91509

SEQ ID NO:	sequence	DBAxnID
73273	atctctctgcaaggaggcagaagct	AA072227
73274	gacaagagctggtgctgtggataga	AA072227
73275	gtgatatttgctccgctttttgcaa	AA072227
73276	atatttgctccgctttttgcaatct	AA072227
73277	gctccgctttttgcaatctttgcat	AA072227
73278	ccgctttttgcaatctttgcatttg	AA072227
73279	ctttttgcaatctttgcatttgcaa	AA072227
73280	atctttgcatttgcaacatgtggcg	AA072227
73281	gcatttgcaacatgtggcggctatt	AA072227
73282	tttgcaacatgtggcggctattccg	AA072227
73283	acatgtggcggctattccggaggcc	AA072227
73284	tctctgcaaggaggcagaagctgct	AA072227
73285	agaagctgctatctgattggtatag	AA072227
73286	agctgctatctgattggtatagcat	AA072227
73287	atagcatctgactttccctctgcat	AA072227
73288	gcatctgactttccctctgcattga	AA072227
73289	gactttccctctgcattgatttctg	AA072227
73290	tttccctctgcattgatttctggtc	AA072227
73291	ccctctgcattgatttctggtcctc	AA072227
73292	ggccagacaggtgaccccagatggt	AA072228
73293	ccagacaggtgaccccagatggtga	AA072228
73294	gagatccctgacgacatgggatcaa	AA072228
73295	atcaaaaggcctgaagcacgtaact	AA072228
73296	gcctgaagcacgtaacttctaatgc	AA072228
73297	ctgaagcacgtaacttctaatgcca	AA072228
73298	gaagcacgtaacttctaatgccagc	AA072228
73299	cacgtaacttctaatgccagcgata	AA072228
73300	cgtaacttctaatgccagcgatagt	AA072228
73301	agttaccgtggtcaagaagaatatg	AA072228
73302	gttttatcgtatgagccggtgaatc	AA072228
73303	tatcgtatgagccggtgaatcagca	AA072228
73304	agacaggtgaccccagatggtgaga	AA072228
73305	aggtgaccccagatggtgagagtga	AA072228
73306	gtgaccccagatggtgagagtgacg	AA072228
73307	gaccccagatggtgagagtgacgag	AA072228
73308	gtaattcctagtaaacgcagagttg	AA072228
73309	aattcctagtaaacgcagagttgag	AA072228
73310	cagtcaaattcaattctaaaacaag	AA072228
73311	gggagatccctgacgacatgggatc	AA072228
73312	gtccacatgttccctaccgagcata	X67469
73313	atgttccctaccgagcatacccctg	X67469
73314	tgaccctgtctggaagatttggctc	X67469
73315	gatttggctctagctgaggaaggag	X67469
73316	ttggctctagctgaggaaggagtct	X67469
73317	cactttcaggggcacctctcagatg	X67469
73318	gggcacctctcagatggccatgctc	X67469
73319	cacctctcagatggccatgctcagt	X67469
73320	tcagatggccatgctcagtatccct	X67469
73321	gatggccatgctcagtatcccttcc	X67469
73322	ggccatgctcagtatcccttccaga	X67469
73323	gctcagtatcccttccagacaggcc	X67469
73324	gagcataccccctggaagcctggcgg	X67469
73325	catacccctggaagcctggcggcac	X67469
73326	caccacgcctgtgcaagacactcaa	X67469
73327	cacgcctgtgcaagacactcaacgg	X67469
73328	gcctgtgcaagacactcaacggggc	X67469
73329	gcaagacactcaacggggctccgtg	X67469
73330	cactcaacggggctccgtgtcccag	X67469
73331	tccttggctctctggggttagttca	X67469
73332	cccaaggctcggtcagaggactcgg	AA072230
73333	ttggagcatgttaccccaaagccag	AA072230
73334	catagtccagtgagtggagatagtg	AA072230
73335	ggctttactggcctcgtcaacttag	AA072230
73336	gtcaacttagggaacacctgcttca	AA072230
73337	ttagggaacacctgcttcatgaata	AA072230
73338	gggaacacctgcttcatgaatagtg	AA072230
73339	acctgcttcatgaatagtgtcattc	AA072230
73340	agtgtcattcagtctctgtccaaca	AA072230

SEQ ID NO	sequence	DBAxnID
115877	aggaccaagccatcaatgtcaccaa	J04953
115878	aagccatcaatgtcaccaatcagtg	J04953
115879	tcaatgtcaccaatcagtgcctttg	J04953
115880	tcaccaatcagtgcctttgagggtt	J04953
115881	tgtccatctcccaaagacatcatat	J04953
115882	tctcccaaagacatcatatggcaag	J04953
115883	agaattgcttcaaatgtctgtactt	J04953
115884	gcttcaaatgtctgtactttggaaa	J04953
115885	actgatgacgtcatgctcctggaca	J04953
115886	ctggacacctgggaccaggtctttg	J04953
115887	acggaagccttgacttctgctaagc	J04953
115888	acttctgctaagcggtacatcgaga	J04953
115889	atcgagacagatccagcaaatcggg	J04953
115890	acagtcgttaggcagggctttgagc	J04953
115891	tccttcgtgggctggttcctcggct	J04953
115892	tggttcctcggctgggacaacaact	J04953
115893	ctctgaatcctatcaatcaaggaaa	K01347
115894	cgttctctggaagacactgaaacag	K01347
115895	tgctctatgcatatacgtaatgtca	K01347
115896	acctatttagtatcatcctatttga	K01347
115897	ttagtatcatcctatttgagagttt	K01347
115898	actgaaacactgttctgttcaagca	K01347
115899	tcaagcacctggtgctatgccttca	K01347
115900	acctggtgctatgccttcatattag	K01347
115901	tgctatgccttcatattagagcacc	K01347
115902	atattagagcaccttctctgaggct	K01347
115903	gagcaccttctctgaggctgattgg	K01347
115904	cttctctgaggctgattggtgggca	K01347
115905	atgtgtctcagttgtgaaggtctat	K01347
115906	ggtctattcctggctgcacagtccc	K01347
115907	ctgctctcagccctggaagaatcca	K01347
115908	atccccacaatgactagctgttgct	K01347
115909	actagctgttgctctccaagctaag	K01347
115910	tgttgctctccaagctaagggacca	K01347
115911	agctaagggaccattccctgctcta	K01347
115912	gggaccattccctgctctatgcata	K01347
115913	tggcacagagggtccctcagcaagt	M36332
115914	tccctcagcaagtgcctaaagaatg	M36332
115915	tctcttccctactgtcttcagtggg	M36332
115916	tccctttgtcatcatgtgaagactt	M36332
115917	gcgtcgaacgccatatgtcacctgt	M36332
115918	aacgccatatgtcacctgtgccact	M36332
115919	cacctgtgccactgtccatgtcatc	M36332
115920	tgtccatgtcatccagcagtggccc	M36332
115921	tgtcatccagcagtggccccaggtg	M36332
115922	gtttgcctcaactcagtccctctaa	M36332
115923	ctcaactcagtccctctaacatgca	M36332
115924	cctctaacatgcattttctggcaaa	M36332
115925	aattggcctggtatccaaaacatct	M36332
115926	cctggtatccaaaacatctcgaggc	M36332
115927	tgggtgctttcaggggcatttgctg	M36332
115928	ctttcaggggcatttgctgaccacc	M36332
115929	cctctgtgtccccacatttgcagtt	M36332
115930	catcataggtcaccttgatgcaggc	M36332
115931	gtgtggccctccatcttgtctcttc	M36332
115932	atcttgtctcttccctactgtcttc	M36332
115933	catgcctggctttgcccccttgacca	AA028398
115934	tgcctggctttgcccccttgaccagc	AA028398
115935	ccaagacatgggcgctacttgactg	AA028398
115936	aagacatgggcgctacttgactgtg	AA028398
115937	tgggcgctacttgactgtggctgcc	AA028398
115938	tacttgactgtggctgccgtgttca	AA028398
115939	acttgactgtggctgccgtgttcag	AA028398
115940	ttgactgtggctgccgtgttcaggg	AA028398
115941	tgttcaggggccgcatgtctatgaa	AA028398
115942	gttcaggggccgcatgtctatgaag	AA028398
115943	tgcttaatgtccaaaacaagaacag	AA028398
115944	aatgtccaaaacaagaacagcagct	AA028398

TABLE 1

SEQ ID NO	sequence	DBAxnID
30737	gatcacgagttcgaggccagccggg	U38981
30738	gcagcagctggttgcagttgccgga	U38981
30739	cccagaggtcacccagcagactgtg	U38981
30740	agaggtcacccagcagactgtggag	U38981
30741	ccagcagactgtggagctcaaggag	U38981
30742	gcttgttgatcagcttgccaaagaa	U38981
30743	tgttgatcagcttgccaaagaagca	U38981
30744	tcagcttgccaaagaagcagagaac	U38981
30745	gaacttgctgaagtccatagcgaag	U38981
30746	cttgctgaagtccatagcgaagcag	U38981
30747	gcagctgcaggccctgatagcagaa	U38981
30748	gctgcaggccctgatagcagaaaag	U38981
30749	gaagcttctaccgacagtcgtcagg	U38981
30750	tctaccgacagtcgtcagggccgca	U38981
30751	agagcgctgccgaggcggctcgtca	U38981
30752	ctgccgaggcggctcgtcagctatg	U38981
30753	cggctcgtcagctatggccaaggac	U38981
30754	ctcgtcagctatggccaaggacatc	U38981
30755	gaacaagctccgagtgttggaccca	U38981
30756	caagctccgagtgttggacccagag	U38981
30757	tacctggatcgcatcaatgtggact	W90825
30758	cctggatcgcatcaatgtggactta	W90825
30759	aatcgactcagtgagcatctctagg	W90825
30760	tcgactcagtgagcatctctagggc	W90825
30761	gactcagtgagcatctctagggccc	W90825
30762	gtgagcatctctagggccctggatg	W90825
30763	ctctagggccctggatgcatgatcc	W90825
30764	ctagggccctggatgcatgatccct	W90825
30765	ccctggatgcatgatccctaagcac	W90825
30766	ggatgcatgatccctaagcaccagg	W90825
30767	gcatgatccctaagcaccaggggct	W90825
30768	atgatccctaagcaccaggggctcc	W90825
30769	gaacttgtacaaacgctcagtggac	W90825
30770	gtacaaacgctcagtggacctgaac	W90825
30771	aaacgctcagtggacctgaacactg	W90825
30772	acgctcagtggacctgaacactgac	W90825
30773	tcagtggacctgaacactgacaaga	W90825
30774	tggacctgaacactgacaagaatat	W90825
30775	gacctgaacactgacaagaatatgt	W90825
30776	cctgaacactgacaagaatatgtga	W90825
30777	ctggcatgtcgtgcctgtggatcct	W90866
30778	cgcgcagcgaatgggtcctgacata	W90866
30779	caaactgtacgcagcctgattactg	W90866
30780	aactgtacgcagcctgattactgcc	W90866
30781	ctgtacgcagcctgattactgccac	W90866
30782	gtacgcagcctgattactgccacat	W90866
30783	gcagcctgattactgccacatgctg	W90866
30784	agcctgattactgccacatgctgca	W90866
30785	cctgattactgccacatgctgcaca	W90866
30786	tgattactgccacatgctgcacagt	W90866
30787	cacccagctagaagacaccttggag	W90866
30788	cccagctagaagacaccttggagac	W90866
30789	gtcctgacatagtgcatctcagctg	W90866
30790	tagaagacaccttggagacgtgtcc	W90866
30791	tgacatagtgcatctcagctgcgag	W90866
30792	acatagtgcatctcagctgcgagga	W90866
30793	agtgcatctcagctgcgaggacaac	W90866
30794	catctcagctgcgaggacaacttcc	W90866
30795	tctcagctgcgaggacaacttccta	W90866
30796	gaggacaacttcctaggacaaactg	W90866
30797	cttcctaggacaaactgtacgcagc	W90866
30798	gtatgctgcatcttctaggagtatg	W90871
30799	gctgcatcttctaggagtatggcat	W90871
30800	aagtatctagcctgggctcttctta	W90871
30801	gtatctagcctgggctcttcttagt	W90871
30802	agcctgggctcttcttagtcatgca	W90871
30803	tgggctcttcttagtcatgcacccc	W90871
30804	cgcatatctgatgtcttgctgatgg	W90871
73341	gtcattcagtctctgtccaacactc	AA072230
73342	attcagtctctgtccaacactcggg	AA072230
73343	cagtctctgtccaacactcgggagc	AA072230
73344	tcgcccaaacccacatgtatggtgc	AA072230
73345	cccaaacccacatgtatggtgcctc	AA072230
73346	aaacccacatgtatggtgcctccaa	AA072230
73347	acatgtatggtgcctccaatgcctc	AA072230
73348	tgtatggtgcctccaatgcctcata	AA072230
73349	atggtgcctccaatgcctcatagtc	AA072230
73350	gtgcctccaatgcctcatagtccag	AA072230
73351	cctcatagtccagtgagtggagata	AA072230
73352	gttacagacatcatcatcaaagaaa	L10666
73353	tcagttcctcgaatatacattctat	L10666
73354	gatgcagaagtcccagtctgtatga	L10666
73355	gaagtcccagtctgtatgatgaagg	L10666
73356	cctacttcacagggtcactctgaag	L10666
73357	tcacagggtcactctgaagagcaca	L10666
73358	gagcacagacctaactgaaggggag	L10666
73359	ctggctgctgtggttggccacagaa	L10666
73360	ccatgacagctgcctgatggactac	L10666
73361	cagctgcctgatggactaccatact	L10666
73362	taacagcaagccttccttacgttga	L10666
73363	caagccttccttacgttgagcgata	L10666
73364	atatacattctataagcaagcttag	L10666
73365	tccttacgttgagcgataaagtatt	L10666
73366	gaatctgaggcttcatgcagaaaat	L10666
73367	ttagttcgcatgtaccagaatgtgt	L10666
73368	aatgtgtcaaatcagcccatcctgt	L10666
73369	cagcccatcctgttggtgatagaga	L10666
73370	tgctcaggactgttagcagtgtggc	L10666
73371	gtgtggccagttcactgtaacgaag	L10666
73372	cttcatttctccgatgcagaagtcc	L10666
73373	atcttgtcagttacagcatccaaaa	D31969
73374	tcagttacagcatccaaaaggtcat	D31969
73375	ggcacaccctggagctgatcgaacc	D31969
73376	tgctcatggccatctgcattgtctc	D31969
73377	aggaccgcctatccaacacgctgca	D31969
73378	gcctatccaacacgctgcagaccta	D31969
73379	gccaccagctctacgccaagatgat	D31969
73380	agctctacgccaagatgatccagaa	D31969
73381	tccagaagctggctgacctgcgaag	D31969
73382	agctggctgacctgcgaagcctcaa	D31969
73383	ctgacctgcgaagcctcaatgagga	D31969
73384	tctccttccagccggagaacagcat	D31969
73385	gggacctcacctctgatgaccagat	D31969
73386	ctgatgaccagattgtcctgcttaa	D31969
73387	agtcaagtgccattgaggtgatcat	D31969
73388	cttttaccatggatgacatgtcctg	D31969
73389	tgtcctgggactgtggcagccaaga	D31969
73390	gtggcagccaagactacaaatatga	D31969
73391	actacaaatatgacatcactgatgt	D31969
73392	aatatgacatcactgatgtctccag	D31969
73393	tctgctgttcgagtcgggattgcag	AA072252
73394	gctgttcgagtcgggattgcagacg	AA072252
73395	atgcattcccatagtatcaatgccc	AA072252
73396	cattcccatagtatcaatgcccttc	AA072252
73397	tcccatagtatcaatgcccttctga	AA072252
73398	agtatcaatgcccttctgatcattg	AA072252
73399	aatgcccttctgatcattggaggat	AA072252
73400	cttctgatcattggaggatttgagg	AA072252
73401	tttgaggcctacctaggactcctag	AA072252
73402	gcctacctaggactcctagagctgg	AA072252
73403	tacctaggactcctagagctggcag	AA072252
73404	ctaggactcctagagctggcagctg	AA072252
73405	gttcgagtcgggattgcagacggcc	AA072252
73406	attgcagacggccacaagatgtttg	AA072252
73407	atgtttgcaatctatgacggctttg	AA072252
73408	tttgcaatctatgacggctttgaag	AA072252
115945	gctgcctgtgatccaagacatgggc	AA028398
115946	tgcctgtgatccaagacatgggcgc	AA028398
115947	gcctgtgatccaagacatgggcgct	AA028398
115948	cctgtgatccaagacatgggcgcta	AA028398
115949	tgtgatccaagacatgggcgctact	AA028398
115950	tgatccaagacatgggcgctacttg	AA028398
115951	atccaagacatgggcgctacttgac	AA028398
115952	tccaagacatgggcgctacttgact	AA028398
115953	cgatgccctgggccccgatggtcag	W15891
115954	tgggccccgatggtcagctgctcca	W15891
115955	caatgcctctgtcatcttcagcctc	W15891
115956	atgcctctgtcatcttcagcctctc	W15891
115957	ctctgtcatcttcagcctctcgaag	W15891
115958	ctgtcatcttcagcctctcgaaggg	W15891
115959	gtcatcttcagcctctcgaagggaa	W15891
115960	catcttcagcctctcgaagggaaac	W15891
115961	ttcagcctctcgaagggaaacagca	W15891
115962	cagcctctcgaagggaaacagcatg	W15891
115963	atgcaagaggccctgagattcgggt	W15891
115964	ccctgagattcgggtgccaggtggc	W15891
115965	gatggtcagctgctccactcagatg	W15891
115966	tggtcagctgctccactcagatgcc	W15891
115967	gtcagctgctccactcagatgcctt	W15891
115968	tggagacaccttcaatgcctctgtc	W15891
115969	gacaccttcaatgcctctgtcatct	W15891
115970	caccttcaatgcctctgtcatcttc	W15891
115971	ccttcaatgcctctgtcatcttcag	W15891
115972	ttcaatgcctctgtcatcttcagcc	W15891
115973	gtttttgtcaccaagctcaagagag	M19681
115974	gtcaccaagctcaagagagaggtct	M19681
115975	acctcaagcacttctgtaggagtga	M19681
115976	agcacttctgtaggagtgaccagtg	M19681
115977	aactagtgtgactcggactgtgatg	M19681
115978	tagtgtgactcggactgtgatgcct	M19681
115979	gttatggtattccctttgatgaata	M19681
115980	atggtattccctttgatgaatacta	M19681
115981	gatccatttttccctctctgtgaat	M19681
115982	tttttccctctctgtgaatccagat	M19681
115983	gaatccagattcaacactttcaatg	M19681
115984	tccagattcaacactttcaatgtat	M19681
115985	aacctggatcggaaccaaatgagat	M19681
115986	tttaaaactgcatctgccctaaggt	M19681
115987	actgcatctgccctaaggtcttcag	M19681
115988	tctgccctaaggtcttcagcacctt	M19681
115989	tcagcacctttgaatgtgaagttga	M19681
115990	ttgacccgtaaatctgaagctaatg	M19681
115991	gaagctaatgcatccactacctttt	M19681
115992	gctaatgcatccactacctttttcca	M19681
115993	taatgttacacatggcagtactcat	W15923
115994	gttacacatggcagtactcatgttc	W15923
115995	tgctcctgttaggcagggcctctgg	W15923
115996	ctcctgttaggcagggcctctggga	W15923
115997	cctgttaggcagggcctctgggaag	W15923
115998	gcatatccttgccttcctttggaat	W15923
115999	gaattttgcacttagccatggtcgg	W15923
116000	attttgcacttagccatggtcgggt	W15923
116001	tgcacttagccatggtcgggttgga	W15923
116002	cttagccatggtcgggttggaagca	W15923
116003	tagccatggtcgggttggaagcaaa	W15923
116004	gccatggtcgggttggaagcaaagc	W15923
116005	cacatggcagtactcatgttcccct	W15923
116006	tggcagtactcatgttcccccttgat	W15923
116007	gcagtactcatgttcccccttgattc	W15923
116008	tactcatgttcccccttgattcccag	W15923
116009	agctgagtcctgactctgtgctcct	W15923
116010	cctgactctgtgctcctgttaggca	W15923
116011	actctgtgctcctgttaggcagggc	W15923
116012	tctgtgctcctgttaggcagggcct	W15923

TABLE 1

SEQ ID NO	sequence	DBAxnID
30805	catatctgatgtcttgctgatggat	W90871
30806	tctgatgtcttgctgatggatgcca	W90871
30807	tgatgtcttgctgatggatgccagg	W90871
30808	gtcttgctgatggatgccaggatac	W90871
30809	cttgctgatggatgccaggatacat	W90871
30810	tgcatcttctaggagtatggcattc	W90871
30811	atggcattcgggtccctcttcccag	W90871
30812	ttcccaggctccactagtggaagaa	W90871
30813	cccaggctccactagtggaagaaca	W90871
30814	tttgggagcccaactgaggagatat	W90871
30815	caactaccccaagtatctagcctgg	W90871
30816	taccccaagtatctagcctgggctc	W90871
30817	ccccaagtatctagcctgggctctt	W90871
30818	acatctgttccctttgggtgtcaat	U39391
30819	caatgtacactgctgattctggtct	U39391
30820	tcagcactcaccaaagaaattgaca	U39391
30821	gcactcaccaaagaaattgacaatc	U39391
30822	attgacaatcagactatttggaagg	U39391
30823	aggccttgtggactgcagaaggcgc	U39391
30824	ctcattgagggtgctgagatgcccg	U39391
30825	gagatgcccgggatggctcacctca	U39391
30826	ttcttttctaggagtgagctatgcc	U39391
30827	gagctatgccagagcagctcaccttt	U39391
30828	cagagcagctcaccttgagtttgca	U39391
30829	agcagctcaccttgagtttgcagcc	U39391
30830	tgtacactgctgattctggtctcca	U39391
30831	caccttgagtttgcagccttcgggg	U39391
30832	acactgctgattctggtctccatgc	U39391
30833	ctggtctccatgcactcacggctgg	U39391
30834	tgccctggaattgtttgccttgctg	U39391
30835	attgtttgccttgctgaatagcaaa	U39391
30836	gcacagcacccacttttctgtatttt	U39391
30837	gccaagaaggcctgcggatgttttc	U39391
30838	ctggtgtcagcactcaccaaagaaa	U39391
30839	aacagcaagctcgcgcctgaagtca	W96963
30840	acagcaagctcgcgcctgaagtcat	W96963
30841	ctcacacacttcgccagcggacatt	W96963
30842	cacacacttcgccagcggacatttc	W96963
30843	cacttcgccagcggacatttcttaa	W96963
30844	acttcgccagcggacatttcttaat	W96963
30845	cttcgccagcggacatttcttaatc	W96963
30846	tcgccagcggacatttcttaatcgc	W96963
30847	cgccagcggacatttcttaatcgca	W96963
30848	cggacatttcttaatcgcagagtct	W96963
30849	ggacatttcttaatcgcagagtcta	W96963
30850	gacatttcttaatcgcagagtctaa	W96963
30851	cagcaagctcgcgcctgaagtcatg	W96963
30852	acatttcttaatcgcagagtctaag	W96963
30853	gcaagctcgcgcctgaagtcatgca	W96963
30854	caagctcgcgcctgaagtcatgcac	W96963
30855	aagctcgcgcctgaagtcatgcacg	W96963
30856	gctcgcgcctgaagtcatgcacgac	W96963
30857	tcgcgcctgaagtcatgcacgactt	W96963
30858	tacaaaggctctctcacacacttcg	W96963
30859	tctcacacacttcgccagcggacat	W96963
30860	tgaactcaatgctagtacaaattca	L42293
30861	aatacagactcactgagctgcccat	L42293
30862	tagtgactttccttgttatagacta	L42293
30863	ctttccttgttatagactagcgagt	L42293
30864	tagactagcgagtccatagtggaag	L42293
30865	gtattaatctttctctactaataat	L42293
30866	taataatcccaaaatggctcctaag	L42293
30867	tcccaaaatggctcctaaggctcca	L42293
30868	aatggctcctaaggctccagaagct	L42293
30869	tcctaaggctccagaagctggcttc	L42293
30870	ctgaaacatctgctcagtcattata	L42293
30871	catctgctcagtcattatactttat	L42293
30872	gactcactgagctgcccatgtgttt	L42293

SEQ ID NO:	sequence	DBAxnID
73409	gcaatctatgacggctttgaaggat	AA072252
73410	ggattcgccaatggccaaatcaaag	AA072252
73411	ttcgccaatggccaaatcaaagaaa	AA072252
73412	gagcagatgcattcccatagtatca	AA072252
73413	ggccccctaatgatgtacatctcca	AA072239
73414	atgatgtacatctccaagatggtgc	AA072239
73415	ttctatgccttcggtagagtgttct	AA072239
73416	tatgccttcggtagagtgttctctg	AA072239
73417	gtgtccacaggtctgaaggtccgga	AA072239
73418	aagcctatccagaggaccattctga	AA072239
73419	cctatccagaggaccattctgatga	AA072239
73420	atccagaggaccattctgatgatgg	AA072239
73421	ctgatgatgggccgctatgtggaac	AA072239
73422	atgatgggccgctatgtggaaccca	AA072239
73423	ggccgctatgtggaacccattgagg	AA072239
73424	cccattgaggatgtgccctgtggca	AA072239
73425	atgtacatctccaagatggtgccaa	AA072239
73426	tacatctccaagatggtgccaacat	AA072239
73427	atctccaagatggtgccaacatctg	AA072239
73428	aagatggtgccaacatctgacaaag	AA072239
73429	gtgccaacatctgacaaaggccgct	AA072239
73430	ccaacatctgacaaaggccgcttct	AA072239
73431	tctgacaaaggccgcttctatgcct	AA072239
73432	gacaaaggccgcttctatgccttcg	AA072239
73433	gtgccgttttgaggctttggagaag	U24428
73434	gaagattgctgcattcctgcagtct	U24428
73435	cttatgctgagccagagctcgctgc	U24428
73436	agctcgctgctgctgagccatcttg	U24428
73437	ctgagccatcttgccctgaggggcc	U24428
73438	agccatcttgccctgaggggcccac	U24428
73439	tagctcactgtcagtcttgttccat	U24428
73440	ctcactgtcagtcttgttccatcct	U24428
73441	actgtcagtcttgttccatcctgtc	U24428
73442	gtctcctctgctctttctaataaac	U24428
73443	tcctctgctctttctaataaacagc	U24428
73444	tctgctctttctaataaacagcagt	U24428
73445	gattgctgcattcctgcagtctgac	U24428
73446	tgcattcctgcagtctgaccgcttc	U24428
73447	gtctgaccgcttcttcaagatgcca	U24428
73448	tgaccgcttcttcaagatgccaatc	U24428
73449	ccgcttcttcaagatgccaatcaat	U24428
73450	cttcaagatgccaatcaataacaag	U24428
73451	gatgccaatcaataacaagatggcc	U24428
73452	taacaagtgcttatgctgagccaga	U24428
73453	tttccttaggtatcattacaatggc	AA072278
73454	atggcacgcttctggatggcaccct	AA072278
73455	gaaccacacctttgacacgtacatt	AA072278
73456	accacacctttgacacgtacattgg	AA072278
73457	cacacctttgacacgtacattgggc	AA072278
73458	gctatgtgattcctgggatggatga	AA072278
73459	tgattcctgggatggatgaaggctt	AA072278
73460	attcctgggatggatgaaggcttac	AA072278
73461	tgaaggcttactgggtgtctgcatt	AA072278
73462	ggcttactgggtgtctgcattggag	AA072278
73463	cttactgggtgtctgcattggagag	AA072278
73464	tcacctgggctatggagaagaagga	AA072278
73465	cacgcttctggatggcaccctcttt	AA072278
73466	cgcttctggatggcaccctctttga	AA072278
73467	cttctggatggcaccctctttgact	AA072278
73468	tttgactccagctattcacggaacc	AA072278
73469	actccagctattcacggaaccacac	AA072278
73470	cagctattcacggaaccacaccttt	AA072278
73471	gctattcacggaaccacaccttttga	AA072278
73472	ttcacggaaccacaccttttgacacg	AA072278
73473	ctctgcctcatgatgaaacatactg	AA072298
73474	catactgtgaccctgcatctcggtt	AA072298
73475	atgattactcattcattcgatatta	AA072298
73476	attactcattcattcgatattacac	AA072298

SEQ ID NO	sequence	DBAxnID
116013	tctagacttccaggcccatggtaca	V00836
116014	cttccaggcccatggtacaatccct	V00836
116015	gtgccgagcctccaatcctgttgag	V00836
116016	agcctccaatcctgttgagagtggg	V00836
116017	caatcctgttgagagtgggtgccgg	V00836
116018	gggcatcgactccaaacactggaac	V00836
116019	cgactccaaacactggaactcatac	V00836
116020	caaacactggaactcatactgcacc	V00836
116021	cacgactcacaccttcgtcaaggcg	V00836
116022	tcacaccttcgtcaaggcgttgaca	V00836
116023	tgcctggaggttcatccggatagac	V00836
116024	gtgtgtgctcagcaggaaggctaca	V00836
116025	tggtacaatccctttcaacaggact	V00836
116026	tttcaacaggactcaccggagcaag	V00836
116027	caggactcaccggagcaagcgctca	V00836
116028	agataagaccacagccacagacatc	V00836
116029	agccacagacatcaagggcaaggag	V00836
116030	agacatcaagggcaaggaggtgaca	V00836
116031	agtgctggccgaggtgaacattaac	V00836
116032	ttttgagaccaagtgccgagcctcc	V00836
116033	gcctacattcccgagggacagcgct	Z46663
116034	cagcgctattccattcagaatgccc	Z46663
116035	ttcggcacctcggaccgtgtctatg	Z46663
116036	agcccccgtgttgggcagatcctca	Z46663
116037	aagcaaacctatgacaagtttgacg	Z46663
116038	tttgacgccaacatgcgcagcgacg	Z46663
116039	agcgacgacgcgctgctcaaaaact	Z46663
116040	gacgcgctgctcaaaaactatgggc	Z46663
116041	ctgctctcctgcttcaagaaggacc	Z46663
116042	ctgcacaaagcggagacctacctgc	Z46663
116043	gagacctacctgcgggtcatgaagt	Z46663
116044	accagtgtctctgctgcactctcct	Z46663
116045	tattccattcagaatgcccaggctg	Z46663
116046	attcagaatgcccaggctgctttct	Z46663
116047	caggctgctttctgcttctcagaga	Z46663
116048	ttgcttcgcttctcgctgctgctca	Z46663
116049	cagttcctcagcaggattttcacca	Z46663
116050	aggattttcaccaacagcctgatgt	Z46663
116051	aacagcctgatgttcggcacctcgg	Z46663
116052	ctgatgttcggcacctcggaccgtg	Z46663
116053	tgccctacttctacgtcctctactt	W15994
116054	tctacgtcctctacttcactgcact	W15994
116055	cgtgtgccttaccgaatcataccct	W15994
116056	gtgccttaccgaatcataccctatg	W15994
116057	taccgaatcataccctatgtctact	W15994
116058	cgaatcataccctatgtctactgaa	W15994
116059	atcataccctatgtctactgaagca	W15994
116060	ccctatgtctactgaagcaggtcca	W15994
116061	tatgtctactgaagcaggtccacct	W15994
116062	tgaagcaggtccacctaagaggttg	W15994
116063	aagccactgcttccagaaggaaagt	W15994
116064	ccactgcttccagaaggaaagtatt	W15994
116065	acgtcctctacttcactgcactgct	W15994
116066	tcctctacttcactgcactgctggt	W15994
116067	acttcactgcactgctggtgaccgc	W15994
116068	tcactgcactgctggtgaccgcgag	W15994
116069	gcagcagtgcctccaaaagtatggc	W15994
116070	aaagtatggccgtgctggcaggagt	W15994
116071	tactgcaagcgtgtgccttaccgaa	W15994
116072	aagcgtgtgccttaccgaatcatac	W15994
116073	gtgcctacttttgtgagtcagatgc	M33324
116074	acatttacatcaccacagaaagcct	M33324
116075	ttcacaccgtgcagtctccaagggg	M33324
116076	gccttatactcaacgcaactgcttt	M33324
116077	tactcaacgcaactgctttgccttt	M33324
116078	acgcaactgctttgcctttgcctga	M33324
116079	ctgctttgcctttgcctgacaaaaa	M33324
116080	atgtgagcacagaccaactgaacaa	M33324

TABLE 1

SEQ ID NO	sequence	DBAxnID
30873	tttaattgtgctaccatagaagttc	L42293
30874	tggtcttgaacttgctatgtagcct	L42293
30875	tgacctcctgtgtcccaagtgctag	L42293
30876	cctgtgtcccaagtgctaggatcac	L42293
30877	tcccaagtgctaggatcacagaaga	L42293
30878	cagaagacatctccatgcctggcca	L42293
30879	acatctccatgcctggccaagattt	L42293
30880	ggggaactcccagctcagcagcact	W96985
30881	gggaactcccagctcagcagcactg	W96985
30882	gctcagcagcactgaagtcatcatg	W96985
30883	ctcagcagcactgaagtcatcatga	W96985
30884	tcagcagcactgaagtcatcatgat	W96985
30885	gcagcactgaagtcatcatgatcat	W96985
30886	tcatgatcatcttcaccttgaagtt	W96985
30887	catgatcatcttcaccttgaagttc	W96985
30888	tcatcttcaccttgaagttctttgg	W96985
30889	catcttcaccttgaagttctttggg	W96985
30890	atggcccagtaagaaccgggcgctg	W96985
30891	tttgtccctgtggtccgctgtgccc	W96985
30892	aactcccagctcagcagcactgaag	W96985
30893	actcccagctcagcagcactgaagt	W96985
30894	ctcccagctcagcagcactgaagtc	W96985
30895	tcccagctcagcagcactgaagtca	W96985
30896	cccagctcagcagcactgaagtcat	W96985
30897	ccagctcagcagcactgaagtcatc	W96985
30898	cagctcagcagcactgaagtcatca	W96985
30899	agctcagcagcactgaagtcatcat	W96985
30900	ctgccagcctaggtgctgtgagtcc	M27685
30901	ctgccagcccaggtgctgtatctcc	M27685
30902	tttagtctcagacctgctggagttt	M27685
30903	cctgccttttctctgcctctaatac	M27685
30904	ctgcctctaatacacacacaatcat	M27685
30905	ctaatacacacacaatcatcaaatt	M27685
30906	cacacacaatcatcaaattctcagt	M27685
30907	tcctcctttaagagatctgtgaacc	M27685
30908	ctgtcagcttcatctattagaaact	M27685
30909	gcttcatctattagaaactggattc	M27685
30910	tggattcatagtctcagccttggca	M27685
30911	catagtctcagccttggcagacacc	M27685
30912	gtgctgccagccagcctgctctgga	M27685
30913	agcctgctctggacctgtgacctgc	M27685
30914	ctctggacctgtgacctgcaccagg	M27685
30915	gacctgcaccaggacttgctaccag	M27685
30916	caccaggacttgctaccagccaaca	M27685
30917	gacttgctaccagccaacatgtgtt	M27685
30918	gcctggttgcctgtcccaaggctgt	M27685
30919	ttgtgagccctgtggctgttgatga	M27685
30920	agccctgaggcgaatctctttatct	D78353
30921	aatctctttatctcggattgtatgc	D78353
30922	cctgcgaaccactgtttcctggtag	D78353
30923	tgctatggcaacaggcccacttacc	D78353
30924	ttatgaatcagcaccaggtgtaaga	D78353
30925	tgaggctttgaggtccccagcaaga	D78353
30926	tttgaggtccccagcaagacactgc	D78353
30927	agctcacaatcctgcctcttagcca	D78353
30928	atccaccatcttccttgggacctga	D78353
30929	aaggaacagcagcactctctctact	D78353
30930	cactctctctacttctaccaataaa	D78353
30931	ctctacttctaccaataaaacaatg	D78353
30932	tttatctcggattgtatgcgacaat	D78353
30933	tctaccaataaaacaatgcaagagc	D78353
30934	tactggcatcaccacggtttcgaga	D78353
30935	ttcgagagacatcttcagggctaac	D78353
30936	catctacccacagggttttgtgagc	D78353
30937	tcccaagttgaacctatcagcctgg	D78353
30938	agcctggcgaggcaaatgagggttc	D78353
30939	gctgctttctgccctgcgaaccact	D78353
30940	ttctgccctgcgaaccactgtttcc	D78353

SEQ ID NO:	sequence	DBAxnID
73477	actcattcattcgatattacacagg	AA072298
73478	cattcattcgatattacacagggac	AA072298
73479	tcattcgatattacacagggaccat	AA072298
73480	gatattacacagggaccattttcaa	AA072298
73481	tcaaattccaatttcaagaagctct	AA072298
73482	aattccaatttcaagaagctctttg	AA072298
73483	tccaatttcaagaagctctttgtaa	AA072298
73484	gaatccaaaattccagtgaaactgg	AA072298
73485	actgtgaccctgcatctcggttcca	AA072298
73486	gtgaccctgcatctcggttccaagt	AA072298
73487	ctgcatctcggttccaagtccctaa	AA072298
73488	catctcggttccaagtccctaatga	AA072298
73489	tccaagtccctaatgattactcatt	AA072298
73490	aagtccctaatgattactcattcat	AA072298
73491	tccctaatgattactcattcattcg	AA072298
73492	ctaatgattactcattcattcgata	AA072298
73493	tgtgcaacgccctcaacagcgtctc	U49393
73494	acgccctcaacagcgtctctgagaa	U49393
73495	acatggatggtgttctcgggacatt	U49393
73496	ttctcgggacatttatgcaggctcg	U49393
73497	ggacatttatgcaggctcggagtag	U49393
73498	ggcagctgccgactacttccaggac	U49393
73499	ggccctcagactgagagcatccagg	U49393
73500	atccaggcatttgtcctgttcccac	U49393
73501	ccgtctcctggaccctgctgaacat	U49393
73502	cctggaccctgctgaacataacagg	U49393
73503	ccctgctgaacataacaggccttaa	U49393
73504	tgaacataacaggccttaaacagga	U49393
73505	gcgtctctgagaaccagtcactgct	U49393
73506	tgccacgctggctgaacccttggct	U49393
73507	cctggctgaacccttggctgctggg	U49393
73508	tggtcatgtccatggctctgcattt	U49393
73509	tgtccatggctctgcattttcttat	U49393
73510	ttcagatgtctctgcctgtcatcct	U49393
73511	tcatcctgctcgatgaggccctcaa	U49393
73512	atgaggccctcaagtatctgtccag	U49393
73513	aaattcctcaggaatcagcccaaga	AA072304
73514	ttcctcaggaatcagcccaagacgt	AA072304
73515	tagcttgtactttctatccaaagaa	AA072304
73516	gtactttctatccaaagaaatatat	AA072304
73517	ctttctatccaaagaaatatatgtg	AA072304
73518	aatatatgtgattaccccagagacc	AA072304
73519	atatgtgattaccccagagacctat	AA072304
73520	tgtgattaccccagagacctatctc	AA072304
73521	taccccagagacctatctctaccat	AA072304
73522	cccagagacctatctctaccatatc	AA072304
73523	agagacctatctctaccatatcagt	AA072304
73524	gacctatctctaccatatcagtagt	AA072304
73525	ttttcctccatattcaggaagagta	AA072304
73526	tcctccatattcaggaagagtacgt	AA072304
73527	agtacgtcttgggctgattcctgag	AA072304
73528	acgtcttgggctgattcctgaggaa	AA072304
73529	tcttgggctgattcctgaggaattt	AA072304
73530	tgtaacaggaccctacgtgcttgga	AA072304
73531	ctacgtgcttggaactgggcttagc	AA072304
73532	gcttagcttgtactttctatccaaa	AA072304
73533	ggccttccggagccatggaggacga	AA072308
73534	gtggttcgcattgccaagaagatgg	AA072308
73535	tcaatgctattcgcaagcagagtac	AA072308
73536	tgctattcgcaagcagagtacagat	AA072308
73537	ctattcgcaagcagagtacagatga	AA072308
73538	attcgcaagcagagtacagatgaag	AA072308
73539	tgaagaagtcacatctctagccaaa	AA072308
73540	agtcacatctctagccaaatcactc	AA072308
73541	tcacatctctagccaaatcactcat	AA072308
73542	acatctctagccaaatcactcatca	AA072308
73543	atctctagccaaatcactcatcaaa	AA072308
73544	ccaaatcactcatcaaatcctggaa	AA072308

SEQ ID NO	sequence	DBAxnID
116081	gcacagaccaactgaacaaaatcat	M33324
116082	accaactgaacaaaatcatgcagta	M33324
116083	tgcagtagtagcctttcctatcttt	M33324
116084	ttttaaatctgtgttgggagagcat	M33324
116085	acatcaccacagaaagccttaccac	M33324
116086	ccacagaaagccttaccactactgc	M33324
116087	aaagccttaccactactgcccagat	M33324
116088	ctactgcccagatgtctgagacagc	M33324
116089	cagatattgctccagatgctgagat	M33324
116090	ttgctccagatgctgagatgtctgt	M33324
116091	tgtctgtcccagactacaccacggt	M33324
116092	actacaccacggttcacaccgtgca	M33324
116093	gagatgaaccgcatgcatgagagca	M13963
116094	gatgaaccgcatgcatgagagcatg	M13963
116095	agagatacgccattctggagacaaa	M13963
116096	agatacgccattctggagacaaagc	M13963
116097	atacgccattctggagacaaagcca	M13963
116098	acgccattctggagacaaagccacc	M13963
116099	aaagccacctgctattctcgtagct	M13963
116100	agccacctgctattctcgtagcttt	M13963
116101	ccacctgctattctcgtagctttaa	M13963
116102	acctgctattctcgtagctttaaag	M13963
116103	ctgctattctcgtagctttaaagaa	M13963
116104	tgctattctcgtagctttaaagaaa	M13963
116105	aagatcacacagagctccctgacca	M13963
116106	gatcacacagagctccctgaccatc	M13963
116107	agctacatccagagcaagtttgagg	M13963
116108	ctacatccagagcaagtttgaggat	M13963
116109	taagcgcaaagacaccaaggagatc	M13963
116110	agcgcaaagacaccaaggagatcta	M13963
116111	agatctacacgcacttcacatgcgc	M13963
116112	tgagagatacgccattctggagaca	M13963
116113	cttctagacctcacaccatggttca	J00417
116114	gacctcacaccatggttcacttcac	J00417
116115	agctcctgggcaacatgttggtgat	J00417
116116	tttctactcattttgccaaggaatt	J00417
116117	ttgccaaggaattcaccccagaggt	J00417
116118	tcaccccagaggtgcaggctgcctg	J00417
116119	attaaactccattccagtacactgg	J00417
116120	ctccattccagtacactggcaatcc	J00417
116121	acactggcaatcccatgtgtctatg	J00417
116122	ccatgtgtctatgatgccctctttg	J00417
116123	ctctttgactccatggggactgaat	J00417
116124	gactccatggggactgaattaggca	J00417
116125	acaccatggttcacttcacagctga	J00417
116126	acttcacagctgaggagaaggcagc	J00417
116127	aggcagctatcacaagcatctggga	J00417
116128	aaactctgggaaggctcctgattgt	J00417
116129	tgattgtttacccatggactcagag	J00417
116130	aagtgctgacatccttgggcttggg	J00417
116131	agaacatggacaacctcaaggagac	J00417
116132	aggagacctttgctcatctcagtga	J00417
116133	tccctggagggcaagcctttgtgag	D00472
116134	ggagcatcttaacagccccagacct	D00472
116135	tcctcttgggttgacgcagaccaag	D00472
116136	gacgcagaccaagtcccgtcctagg	D00472
116137	gcagaccaagtcccgtcctaggcac	D00472
116138	gctgccaacttctaaccacaatagt	D00472
116139	gccaacttctaaccacaatagtgac	D00472
116140	aacttctaaccacaatagtgactct	D00472
116141	taaccacaatagtgactctgtgctt	D00472
116142	caatagtgactctgtgcttgtctgt	D00472
116143	tttgatcttgaccactcatggaagc	D00472
116144	gatcttgaccactcatggaagcagg	D00472
116145	gcatcttaacagccccagacctgct	D00472
116146	cagacctgctcttgggtgttgcagg	D00472
116147	ctggccttcccaaactgcttttgat	D00472
116148	gccttcccaaactgcttttgatctt	D00472

TABLE 1

SEQ ID NO	sequence	DBAxnID
30941	ggtctctgtccaagtcagcgtctcc	W97049
30942	agccagtgtgcacctgggcctagcg	W97049
30943	gctcaacgagaccagtttcatcttc	W97049
30944	caacgagaccagtttcatcttcact	W97049
30945	cgagaccagtttcatcttcactcag	W97049
30946	cagtttcatcttcactcagttcttg	W97049
30947	tttcatcttcactcagttcttggag	W97049
30948	catcttcactcagttcttggagtct	W97049
30949	tcagttcttggagtctgcgctgact	W97049
30950	gttcttggagtctgcgctgactaat	W97049
30951	ggagtctgcgctgactaatgagacc	W97049
30952	taatgagaccatgcggcacggctgc	W97049
30953	cagtgtgcacctgggcctagcggtg	W97049
30954	caatcagcccacgcatgtcaacaac	W97049
30955	gggcctagcggtggagcagcatcat	W97049
30956	cttctcggtggacgggcagccagca	W97049
30957	accgtctctgcgctggttgttcaac	W97049
30958	gtctctgcgctggttgttcaacggc	W97049
30959	gttgttcaacggctctgtgctcaac	W97049
30960	caacggctctgtgctcaacgagacc	W97049
30961	cggctctgtgctcaacgagaccagt	W97049
30962	gctgcatgccccaatgaaccagcgt	W97074
30963	ctgcatgccccaatgaaccagcgtc	W97074
30964	cagcgtctgacaggacgttctgtct	W97074
30965	gcgtctgacaggacgttctgtctgt	W97074
30966	cgtctgacaggacgttctgtctgtt	W97074
30967	tctgacaggacgttctgtctgtttg	W97074
30968	ctgacaggacgttctgtctgtttgt	W97074
30969	acaggacgttctgtctgtttgtgct	W97074
30970	tcttgaccgagtctgccgtgggcga	W97074
30971	ttgaccgagtctgccgtgggcgagt	W97074
30972	agtctgccgtgggcgagttctgcct	W97074
30973	tgcctcgtcctacgcgttttcgtgg	W97074
30974	gcatgccccaatgaaccagcgtctg	W97074
30975	catgccccaatgaaccagcgtctga	W97074
30976	gccccaatgaaccagcgtctgacag	W97074
30977	ccaatgaaccagcgtctgacaggac	W97074
30978	aatgaaccagcgtctgacaggacgt	W97074
30979	gaaccagcgtctgacaggacgttct	W97074
30980	aaccagcgtctgacaggacgttctg	W97074
30981	ccagcgtctgacaggacgttctgtc	W97074
30982	tgaccaaaccaactgtgattatcag	U04827
30983	ccaaaccaactgtgattatcagtca	U04827
30984	tgactcttacctttggggatatcgt	U04827
30985	tcgttgctgttcgctgttatgaaaa	U04827
30986	ttgctgttcgctgttatgaaaaggc	U04827
30987	ctgttcgctgttatgaaaaggcata	U04827
30988	tcctggagtcccagagttagccagc	U04827
30989	tggagtcccagagttagccagctaa	U04827
30990	tgtgttactccaagcaattcatggg	U04827
30991	gttactccaagcaattcatgggatt	U04827
30992	actccaagcaattcatgggattttg	U04827
30993	atatacttatgactttctttggaat	U04827
30994	tgatccggacacaatgcacattcaa	U04827
30995	tccggacacaatgcacattcaagaa	U04827
30996	ggacacaatgcacattcaagaacac	U04827
30997	cagagatcaatttccagctgggaga	U04827
30998	tcaatttccagctgggagaagagtt	U04827
30999	atttccagctgggagaagagtttga	U04827
31000	ctgtggttcggttggatggagacaa	U04827
31001	tcgtgactcttaccttggggatat	U04827
31002	tacatactcttacgctccaagtttc	U05342
31003	tcgcctaccagctagaggagttaat	U05342
31004	ctcatcacatgggaatctcagcaca	U05342
31005	gaatctcagcacatgagagccatta	U05342
31006	ctgtctccctctttgatctaatggg	U05342
31007	gatatcagtagttccccaggggcct	U05342
31008	tagttttctcagcatcaattttgga	U05342
73545	ggttcgcattgccaagaagatggac	AA072308
73546	ttcgcattgccaagaagatggacaa	AA072308
73547	cccatgaccctggaattattacagt	AA072308
73548	gaattattacagtccacgagaattg	AA072308
73549	attattacagtccacgagaattgga	AA072308
73550	tattacagtccacgagaattggaat	AA072308
73551	acagtccacgagaattggaatgtct	AA072308
73552	tgtcaatgctattcgcaagcagagt	AA072308
73553	ctgctacccctgagatcagagtgaa	U60884
73554	ctacccctgagatcagagtgaacca	U60884
73555	agcatgattacacggccactgacac	U60884
73556	attacacggccactgacactgatga	U60884
73557	acacggccactgacactgatgagct	U60884
73558	cggccactgacactgatgagctgca	U60884
73559	agctgcaactcaaagctggcgatgt	U60884
73560	aactcaaagctggcgatgtggtgtt	U60884
73561	ttcctttccagaacccagaggagca	U60884
73562	ctttccagaacccagaggagcagga	U60884
73563	tccagaacccagaggagcaggatga	U60884
73564	atgaaggctggctcatgggtgtgaa	U60884
73565	ctcagccagcagaggcctccgaggt	U60884
73566	agccagcagaggcctccgaggtggt	U60884
73567	agacagcagccagtgaagcaacctc	U60884
73568	ccagtgaagcaacctccagctctct	U60884
73569	tggagaccttctccgcaactgtgaa	U60884
73570	tcaaggttcaagcccagcatgatta	U60884
73571	aggttcaagcccagcatgattacac	U60884
73572	aagcccagcatgattacacggccac	U60884
73573	atgtaagcacccaagattagcagct	U41287
73574	gcacccaagattagcagctgacgga	U41287
73575	cagtgctggacctttgaagtctggg	U41287
73576	gaaatacaagtttctgctggctctg	U41287
73577	tactgactcagcagggcaaggatgt	U41287
73578	tgaagacgccacattaaagtgatgg	U41287
73579	cagagtcattcccacattctgttgg	U41287
73580	aggatgttcactacttggtgcatac	U41287
73581	acttggtgcatacaggcatgcacac	U41287
73582	tgcatacaggcatgcacacggacag	U41287
73583	cacacacaaacacaggtttgctgat	U41287
73584	caaacacaggtttgctgatggaaca	U41287
73585	acgaggcagctgcagccctactgtg	U41287
73586	cagctgcagccctactgtgctcctt	U41287
73587	cagccctactgtgctccttgacctt	U41287
73588	ccagaaacaccaggcggtctgccat	U41287
73589	ggcggtctgccatcaccgtttgcct	U41287
73590	tcaccgtttgcctgtcagctctctg	U41287
73591	ctctctgacctccagtgctggacct	U41287
73592	gacctccagtgctggacctttgaag	U41287
73593	cagccgagcagggcagccgatcaga	AA072314
73594	tgtcccgcggagtttcaggtccatg	AA072314
73595	gggcccaaagcttggcccaagctct	AA072314
73596	ccaaagcttggcccaagctctctca	AA072314
73597	agcttggcccaagctctctcagttc	AA072314
73598	cttggcccaagctctctcagttcaa	AA072314
73599	tctcagttcaaacccctctcagga	AA072314
73600	gtgaaactctgcacataaattcccg	AA072314
73601	gaaactctgcacataaattcccggc	AA072314
73602	aactctgcacataaattcccggcat	AA072314
73603	ctctgcacataaattcccggcattg	AA072314
73604	gcacataaattcccggcattggtcg	AA072314
73605	gtccatgatgctactggctctaggg	AA072314
73606	ccatgatgctactggctctagggcc	AA072314
73607	atgatgctactggctctagggccca	AA072314
73608	gatgctactggctctagggcccaaa	AA072314
73609	ctactggctctagggcccaaagctt	AA072314
73610	actggctctagggcccaaagcttgg	AA072314
73611	gctctagggcccaaagcttggccca	AA072314
73612	tagggcccaaagcttggcccaagct	AA072314
116149	ccaaactgcttttgatcttctgatt	D00472
116150	aactgcttttgatcttctgattcct	D00472
116151	tgatcttctgattcctcttgggttg	D00472
116152	tctgattcctcttgggttgacgcag	D00472
116153	ctaggcatcatctacagagacctga	L12460
116154	ttaattctggatgccgatggctacc	L12460
116155	atgatgacctacaatttgattctca	L12460
116156	aagataacaaggcgccctgaggatt	L12460
116157	ttgatccggaggctttgcaggcaaa	L12460
116158	tcacctttacggagagagctcagtg	L12460
116159	agagagctcagtggccccatagatc	L12460
116160	ctcagtggccccatagatcacagct	L12460
116161	ggccccatagatcacagctactttg	L12460
116162	atagatcacagctactttgacaagt	L12460
116163	cacagctactttgacaagtatcctc	L12460
116164	tactttgacaagtatcctcctgaaa	L12460
116165	aagattggctctggacagaaaacgt	L12460
116166	tggacattctgtgggactccagagt	L12460
116167	ttctgtgggactccagagtatgtgg	L12460
116168	ggacatgacttcagtgtggatttct	L12460
116169	gacttcagtgtggatttctggtccc	L12460
116170	gatttctggtccctggggattctgg	L12460
116171	attctggtctatgagctcctaacgg	L12460
116172	gtctatgagctcctaacgggcaacc	L12460
116173	taaagttacaactacctcactgcag	M28540
116174	tacaactacctcactgcagactcaa	M28540
116175	gtcctgctgagaggtgtccaagata	M28540
116176	ccttggctttgtgaactcttgaaag	M28540
116177	gaactcttgaaagcctgctgtgtga	M28540
116178	tgtgtgaacattctcactaaattaa	M28540
116179	aacattctcactaaattaagagcta	M28540
116180	tatgagctggtcctccatttcccag	M28540
116181	ctccatttcccaggtgatccaaatg	M28540
116182	cctgcgggtaccacatgtatgtggt	M28540
116183	ggtaccacatgtatgtggtatgtgg	M28540
116184	tatgtggatctacatgtggggaaaa	M28540
116185	tacctcactgcagactcaaaggtgt	M28540
116186	gactcaaaggtgtccccagacactt	M28540
116187	tccccagacacttcctgacactagt	M28540
116188	gacacttcctgacactagtgtttct	M28540
116189	tcctgacactagtgtttctatttgg	M28540
116190	gacatcaaagcttttcttccgtggg	M28540
116191	taacttacagtgccttaggctcagt	M28540
116192	taatatgtcctgctgagaggtgtcc	M28540
116193	agggactcactgtcagagttagcgt	L07037
116194	actcactgtcagagttagcgtggat	L07037
116195	gggtaccctgtcttcttgcctgtgg	L07037
116196	agttagttctctccgcattctttag	L07037
116197	ttagttctctccgcattctttagga	L07037
116198	ttctctccgcattctttaggaggat	L07037
116199	ctctccgcattctttaggaggattc	L07037
116200	cttgctcctggtggcagcagctgag	L07037
116201	aggacatctgtggccctgagccggc	L07037
116202	acatcttcccaggccaagatgcagg	L07037
116203	atcttcccaggccaagatgcagggg	L07037
116204	gtccttgtttgttgcctgatcttag	L07037
116205	tcactgtcagagttagcgtggattg	L07037
116206	tggattgctgctgccggggcactac	L07037
116207	ttgctgctgccggggcactacctcc	L07037
116208	tctctccctgctgacgtggctcttg	L07037
116209	gctcttgtcctggagcagagcagtg	L07037
116210	tcttgtcctggagcagagcagtgcg	L07037
116211	gtctatgcgtgggtaccctgtcttc	L07037
116212	atgcgtgggtaccctgtcttcttgc	L07037
116213	cagcccttcgcggctctgcacaggg	AA163975
116214	agcccttcgcggctctgcacagggc	AA163975
116215	tgcacagggcagttctactgcgagc	AA163975
116216	ggcagttctactgcgagctgctccc	AA163975

TABLE 1

SEQ ID NO	sequence	DBAxnID
31009	tctcagcatcaattttggaaaacct	U05342
31010	ttagaccacaggcatatttcgtcaa	U05342
31011	cacaggcatatttcgtcaagtaggg	U05342
31012	gttgacccacgtatgaacagaagat	U05342
31013	tggttattctggctgtgcatatgtg	U05342
31014	agttaatggcgcttctggaacagaa	U05342
31015	ggatgcctgtcacaattggagatgg	U05342
31016	tgaaggtccttcaagagctttcaca	U05342
31017	tccttcaagagctttcacagtggac	U05342
31018	aagagctttcacagtggactgtgag	U05342
31019	ggtctatccatgacctccgtgtcat	U05342
31020	tccatgacctccgtgtcatttcttc	U05342
31021	tttcttctcatcacatgggaatctc	U05342
31022	gttgtcctctgaccaccacacataa	L21671
31023	aaaccagacgttctagactgttctg	L21671
31024	agctttcagtgactgggatacctgc	L21671
31025	ctgggatacctgctgtccagggagg	L21671
31026	gactaccctctgcttacttgaggtc	L21671
31027	ctgcttacttgaggtctgacatgcc	L21671
31028	cttacttgaggtctgacatgcccaa	L21671
31029	ctgacatgcccaatgagagtgtatt	L21671
31030	acatgcccaatgagagtgtatttag	L21671
31031	acaaggtagccagaccttgaatgta	L21671
31032	gaaactttgttactctcagctctgt	L21671
31033	ttactctcagctctgttgattgcga	L21671
31034	gacgttctagactgttctgggcttg	L21671
31035	gttctagactgttctgggcttggga	L21671
31036	ctagactgttctgggcttgggaaat	L21671
31037	ttattgcagccttgttcgatgatct	L21671
31038	ttgcagccttgttcgatgatctaag	L21671
31039	tttattcattgcaacaaggaaagac	L21671
31040	gaaagtctcagctttcagtgactgg	L21671
31041	ctcagctttcagtgactgggatacc	L21671
31042	tccccatcttcatttggcctcctga	U07634
31043	tcttcatttggcctcctgagaagcc	U07634
31044	tcaggatgcttggctgtgctgaggt	U07634
31045	tgcttggctgtgctgaggtttttat	U07634
31046	cagggacttgccagggctggagaca	U07634
31047	agaggatcccctgcaacaagacatt	U07634
31048	cggacctgcaggagactttccgcca	U07634
31049	cctttggacaaatgtcgctgtcagt	U07634
31050	gacaaatgtcgctgtcagtgttaca	U07634
31051	aaatgtcgctgtcagtgttacagat	U07634
31052	atgacttatttctgctctggaataa	U07634
31053	tatttctgctctggaataaagttgc	U07634
31054	ctcctgagaagccactctggagctg	U07634
31055	agaagccactctggagctgaggcta	U07634
31056	cactctggagctgaggctaagcact	U07634
31057	aagcactaagcccaggaccatatga	U07634
31058	taagcccaggaccatatgactagca	U07634
31059	catatgactagcactgtaccgcccg	U07634
31060	ggacttggctgggttgtggtcacaa	U07634
31061	agcaatctcccagtgcctttacag	U07634
31062	tgtttctggagcctgaattaatcaa	U12620
31063	taatcaaatatcacagcacacattt	U12620
31064	cagagcacaccagcatcaggggcgc	U12620
31065	acaccagcatcaggggcgcatcgcg	U12620
31066	cgccctgacgcttcactatccagga	U12620
31067	gacgcttcactatccaggatcactt	U12620
31068	tcagtctgtgccattccgggcactg	U12620
31069	gtattagcagttccacctcttggcg	U12620
31070	ccacctcttggcgcttattgctctt	U12620
31071	cttggcgcttattgctcttgctcta	U12620
31072	gcttattgctcttgctctaagttgg	U12620
31073	tgctcttgctctaagttggagtgag	U12620
31074	aatatcacagcacacatttttcagg	U12620
31075	acagcacacatttttcaggcaatga	U12620
31076	ttgactctcatagcacaagttttac	U12620
73613	aatggagtctcctgagaaagagacg	L43326
73614	aagtctcaatcagactgtgacacag	L43326
73615	tagactactgacttaaagagaaaca	L43326
73616	agccaactctgtagacaccttcaga	L43326
73617	tgtagacaccttcagagtttagttt	L43326
73618	tagacctttacattcctaaagatga	L43326
73619	gttgtacactgctttacttaacatt	L43326
73620	gtacactgctttacttaacatttgg	L43326
73621	agaagccgcctctgacatcaactca	L43326
73622	agccgcctctgacatcaactcaagg	L43326
73623	cgcctctgacatcaactcaaggaaa	L43326
73624	catcaactcaaggaaacacttttg	L43326
73625	caatcagactgtgacacagttacag	L43326
73626	gttacagcaattgcttcaggaagta	L43326
73627	acaactcacaaaggagacataatcc	L43326
73628	tttctactttgtcagacactggaca	L43326
73629	ctactttgtcagacactggacagtt	L43326
73630	ctttgtcagacactggacagttttg	L43326
73631	ttttctaatccttggtagactactg	L43326
73632	tctaatccttggtagactactgact	L43326
73633	tcatctgatctgcagcggcacaggc	AA072347
73634	gatctgcagcggcacaggcactgaa	AA072347
73635	tcgagtgaccgggacctctgggctc	AA072347
73636	tgtggccgacacacatgagggtcat	AA072347
73637	tggccgacacacatgagggtcatat	AA072347
73638	gtcatattaccagcgatatgcagct	AA072347
73639	catattaccagcgatatgcagcttt	AA072347
73640	tattaccagcgatatgcagctttct	AA072347
73641	gatatgcagctttctacctacttag	AA072347
73642	tatgcagctttctacctacttagac	AA072347
73643	tgcagctttctacctacttagaccc	AA072347
73644	cagctttctacctacttagaccctg	AA072347
73645	tatgatggcggcaacagtggtatct	AA072347
73646	tatctcggatacgaaccgggacacg	AA072347
73647	ctccagtcctgtggctgcttctgtc	AA072347
73648	ccagtcctgtggctgcttctgtcgt	AA072347
73649	tcctgtggctgcttctgtcgttggt	AA072347
73650	gccactggtactgtggtcgagtgac	AA072347
73651	cactggtactgtggtcgagtgaccg	AA072347
73652	ctgtggtcgagtgaccgggacctct	AA072347
73653	ttattacttatttgtgcgaagtgcc	D50494
73654	aagtgccttatgctacaagaccatt	D50494
73655	gtccaagaatttcacctctagcggc	D50494
73656	gaatttcacctctagcggcgcaata	D50494
73657	cacctctagcggcgcaatacgaatg	D50494
73658	taatcatggcctcagttccgaaaac	D50494
73659	ggtcctattccattattcctagctg	D50494
73660	attccattattcctagctgcggtat	D50494
73661	ttattcctagctgcggtatccaggc	D50494
73662	ctagctgcggtatccaggcggctcg	D50494
73663	gggcctgctttgaacactctaatttt	D50494
73664	acactcagctaagagcatcgagggg	D50494
73665	cttatgctacaagaccattaagaat	D50494
73666	ctgttctaccagtactcagcccagg	D50494
73667	cagccgtcggcatcgtttatggtcg	D50494
73668	tcggcatcgtttatggtcggaacta	D50494
73669	atggtcggaactacgacggtatctg	D50494
73670	gtatctgatcgtcttcgaacctccg	D50494
73671	aatgctttcgctctggtccgtcttg	D50494
73672	ttcgctctggtccgtcttgcgccgg	D50494
73673	tacggaactctccttcaggacctga	AA108330
73674	actctccttcaggacctgaccaaca	AA108330
73675	gcctggtttagcttcctggagagcc	AA108330
73676	ttcctggagagccacaacaagctgg	AA108330
73677	gagagccacaacaagctggacaaag	AA108330
73678	gacaaagacaacctctcctacatag	AA108330
73679	ctctcctacatagagcacatctttg	AA108330
73680	tacatagagcacatctttgagatat	AA108330
116217	gcagttctactgcgagctgctcccg	AA163975
116218	cagttctactgcgagctgctcccgc	AA163975
116219	aagcaggcactgccaccgggcgaat	AA163975
116220	caggcactgccaccgggcgaatcgt	AA163975
116221	aggcactgccaccgggcgaatcgtg	AA163975
116222	ggcactgccaccgggcgaatcgtgg	AA163975
116223	gcactgccaccgggcgaatcgtggc	AA163975
116224	cactgccaccgggcgaatcgtggca	AA163975
116225	gcccttcgcggctctgcacagggca	AA163975
116226	cttcgcggctctgcacagggcagtt	AA163975
116227	cgcggctctgcacagggcagttcta	AA163975
116228	cggctctgcacagggcagttctact	AA163975
116229	ggctctgcacagggcagttctactg	AA163975
116230	gctctgcacagggcagttctactgc	AA163975
116231	ctctgcacagggcagttctactgcg	AA163975
116232	ctgcacagggcagttctactgcgag	AA163975
116233	ctctctgcacatgaatactgctgtt	V00726
116234	atgaatactgctgttcctgaagcac	V00726
116235	aatcgtttgcttgtctgctttctac	V00726
116236	gtctgctttctacttttatgctaaag	V00726
116237	gctttctacttttatgctaaagacac	V00726
116238	tttctactttatgctaaagacacat	V00726
116239	tctactttatgctaaagacacatat	V00726
116240	aatgactcaggcatttatctgaaac	V00726
116241	tgactcaggcatttatctgaaacct	V00726
116242	gcatttatctgaaacctgcagggac	V00726
116243	gaaacctgcagggactcaagagaga	V00726
116244	aacctgcagggactcaagagagaaa	V00726
116245	gaatactgctgttcctgaagcacat	V00726
116246	atactgctgttcctgaagcacatca	V00726
116247	ctgttcctgaagcacatcatgttaa	V00726
116248	gttcctgaagcacatcatgttaata	V00726
116249	tcctgaagcacatcatgttaataaa	V00726
116250	taataaagcacctccgaatcaaaat	V00726
116251	cctccgaatcaaaatcgtttgcttg	V00726
116252	tcaaaatcgtttgcttgtctgcttt	V00726
116253	acttcccgctgtcccaatggtcagg	AA137432
116254	gttgattccaacgacatctacgagg	AA137432
116255	cacgaggacttcttcttgtatcagc	AA137432
116256	gaggacttcttcttgtatcagcgtg	AA137432
116257	gacttcttcttgtatcagcgtggca	AA137432
116258	ttcttgtatcagcgtggcatctaca	AA137432
116259	ttgtatcagcgtggcatctacagcc	AA137432
116260	tatcagcgtggcatctacagccaca	AA137432
116261	cgtggcatctacagccacacacctg	AA137432
116262	ggcatctacagccacacacctgtaa	AA137432
116263	atctacagccacacacctgtaagcc	AA137432
116264	agccacacacctgtaagccagggga	AA137432
116265	aacgacatctacgaggtcacgcctg	AA137432
116266	gacatctacgaggtcacgcctgcgt	AA137432
116267	tacgaggtcacgcctgcgtaccgcc	AA137432
116268	gtcacgcctgcgtaccgcctgggct	AA137432
116269	taccgcctgggctctgatgagcagg	AA137432
116270	aacggccctgttcaagcactcatgg	AA137432
116271	cctgttcaagcactcatggaagtac	AA137432
116272	gttcaagcactcatggaagtacacg	AA137432
116273	agtgcactcaactccagcgcagctc	AA154079
116274	accaccatgtctctgatgaagaatg	AA154079
116275	accatgggtctcagcagttgcgggc	AA154079
116276	catgggtctcagcagttgcgggccc	AA154079
116277	cgggcccacggcttcaagatcatga	AA154079
116278	cccacggcttcaagatcatgaccgc	AA154079
116279	gcttcaagatcatgaccgccgtagg	AA154079
116280	caagatcatgaccgccgtagggatg	AA154079
116281	agatcatgaccgccgtagggatgcg	AA154079
116282	ttaagagcatcgacaacctctctag	AA154079
116283	aagagcatcgacaacctctctagtg	AA154079
116284	atcgacaacctctctagtgctttga	AA154079

TABLE 1

SEQ ID NO	sequence	DBAxnID
31077	tagacctgtctctgagggacatatg	U12620
31078	tgtctctgagggacatatgcattct	U12620
31079	acatatgcattctctggaagcacat	U12620
31080	tggatcgagcttccttctcagagca	U12620
31081	gagcttccttctcagagcacaccag	U12620
31082	ggagaagacctcctcttctatctgt	W97199
31083	gagaagacctcctcttctatctgta	W97199
31084	aactcttagctgcggtagagctttt	W97199
31085	atggattaccagggcaccaggcatg	W97199
31086	ggattaccagggcaccaggcatgga	W97199
31087	gattaccagggcaccaggcatggag	W97199
31088	attaccagggcaccaggcatggagc	W97199
31089	ttaccagggcaccaggcatggagcc	W97199
31090	accagggcaccaggcatggagccaa	W97199
31091	ccagggcaccaggcatggagccaac	W97199
31092	cagggcaccaggcatggagccaaca	W97199
31093	caccaggcatggagccaacaatgaa	W97199
31094	gaagacctcctcttctatctgtatt	W97199
31095	tcctcttctatctgtattacatgaa	W97199
31096	cctcttctatctgtattacatgaac	W97199
31097	ctcttctatctgtattacatgaacg	W97199
31098	tcttctatctgtattacatgaacgg	W97199
31099	atgtattacaactcttagctgcggt	W97199
31100	gtattacaactcttagctgcggtag	W97199
31101	acaactcttagctgcggtagagctt	W97199
31102	gattctctacaatctatcccggaat	D49438
31103	tctatcccggaatccccaagtgcaa	D49438
31104	aagtgtgccattcacaactcggacc	D49438
31105	cacaactcggacccttgacaagcca	D49438
31106	ccaagtgctgggctctagcgaagac	D49438
31107	ggctgagctacagctccacttggct	D49438
31108	gctccacttggctctttgctggata	D49438
31109	cttggctctttgctggataatccaa	D49438
31110	tcttggcatcctggtacctagccgg	D49438
31111	gcccattgcgttctgtccacggtag	D49438
31112	tgcgttctgtccacggtaggctgct	D49438
31113	ctgtccacggtaggctgctgagatt	D49438
31114	ccggaatccccaagtgcaacagaga	D49438
31115	acagagacttctccgggaaatccag	D49438
31116	acttctccgggaaatccagagcgtg	D49438
31117	tgacaaccagacgccacgggcggaa	D49438
31118	ccagacgccacgggcggaagatgtg	D49438
31119	tatgccctatttaaaggcctgtcta	D49438
31120	gtccatgaggcttaccccaagtgtg	D49438
31121	taccccaagtgtgccattcacaact	D49438
31122	ggacccacaggtgtcatcaccacaa	D49920
31123	acaggtgtcatcaccacaaccatga	D49920
31124	agccggacagtctgggttggactct	D49920
31125	acagtctgggttggactcttctctc	D49920
31126	ttatgttattgacggccctggctta	D49920
31127	tattgacggccctggcttagacgcc	D49920
31128	gtgccctttccaggggcctctgagc	D49920
31129	tctgagctctgccttctgcaagctg	D49920
31130	cttctgcaagctgacctcccagtgt	D49920
31131	gacctcccagtgtggcttgaggcca	D49920
31132	cctgcttcctttctgatggaccttg	D49920
31133	tcctttctgatggaccttggagggc	D49920
31134	cccggctatgtggccattcaagccc	D49920
31135	ctgctcagcaatcgaggagtccggc	D49920
31136	tctttctcagactgggagaagctgg	D49920
31137	gagatgctgcggctgctgggccact	D49920
31138	ctgcggctgctgggccactgaacct	D49920
31139	ctgctgggccactgaacctgggccc	D49920
31140	cctaccgtgcaagacaagagccgga	D49920
31141	gacaagagccggacagtctgggttg	D49920
31142	tggccactgtcttccgtgggcgcat	W97055
31143	cactgtcttccgtgggcgcatgtct	W97055
31144	caaggtagccgtgtgtgacatccca	W97055

SEQ ID NO:	sequence	DBAxnID
73681	gacctcctcactatggtggttgact	AA108330
73682	ctcactatggtggttgactacagaa	AA108330
73683	gttgactacagaacccgtgtgctga	AA108330
73684	tacagaacccgtgtgctgaagatct	AA108330
73685	cttcaggacctgaccaacaacatca	AA108330
73686	gacctgaccaacaacatcacccttg	AA108330
73687	aacatcacccttgaagatctggaac	AA108330
73688	cagctcaagtcagcctgcaaggagg	AA108330
73689	aagtcagcctgcaaggaggacatcc	AA108330
73690	gacatccccagtgagaagagtgagg	AA108330
73691	accacaggcagcgcctggtttagct	AA108330
73692	ggcagcgcctggtttagcttcctgg	AA108330
73693	gacctcacaagttcttccaagtttg	AA072214
73694	cctcacaagttcttccaagtttgca	AA072214
73695	ttcttccaagtttgcagcatgatcc	AA072214
73696	ttccaagtttgcagcatgatcccat	AA072214
73697	aagtttgcagcatgatcccattgct	AA072214
73698	agtttgcagcatgatcccattgctt	AA072214
73699	gtttgcagcatgatcccattgcttc	AA072214
73700	tttgcagcatgatcccattgcttct	AA072214
73701	ttgcagcatgatcccattgcttctg	AA072214
73702	gcatttccccgagtcaaatggacct	AA072214
73703	ctcacaagttcttccaagtttgcag	AA072214
73704	tcacaagttcttccaagtttgcagc	AA072214
73705	cacaagttcttccaagtttgcagca	AA072214
73706	acaagttcttccaagtttgcagcat	AA072214
73707	caagttcttccaagtttgcagcatg	AA072214
73708	aagttcttccaagtttgcagcatga	AA072214
73709	agttcttccaagtttgcagcatgat	AA072214
73710	gttcttccaagtttgcagcatgatc	AA072214
73711	gcccgccaggcacgagacatcctgg	U18992
73712	caggcacgagacatcctgggaggaa	U18992
73713	atactttgccctgagtctgctgaag	U18992
73714	ttcaggacatttctttctggaagac	U18992
73715	acatttctttctggaagacattcag	U18992
73716	cattcagatatgctctatagaaaga	U18992
73717	attctctgtatggccctcagccctt	U18992
73718	gccctcagccctttttaactggatg	U18992
73719	tacagtttaccttcttgcctctatc	U18992
73720	ttaccttcttgcctctatcccaggg	U18992
73721	ggcagtgccttctatgtgcactgaa	U18992
73722	gccttctatgtgcactgaacagata	U18992
73723	cgagacatcctgggaggaaatggga	U18992
73724	atttctgatgagtaccatgtcatcc	U18992
73725	gtcatccggcatgctatgaatctgg	U18992
73726	acacatgacattcatgctctgatcc	U18992
73727	gacattcatgctctgatccttggga	U18992
73728	catgctctgatccttgggagagcaa	U18992
73729	ctgatccttgggagagcaattactg	U18992
73730	caggcattcacggttggcaagtgaa	U18992
73731	cgaggaaacaaccgcagctgcccca	AA072381
73732	ggaaacaaccgcagctgccccagct	AA072381
73733	agtactcaaatgacgacaccctatg	AA072381
73734	actcaaatgacgacaccctatgctg	AA072381
73735	caaatgacgacaccctatgctgtgg	AA072381
73736	atgacgacaccctatgctgtggcac	AA072381
73737	acgacaccctatgctgtggcactgc	AA072381
73738	acaccctatgctgtggcactgcata	AA072381
73739	ccctatgctgtggcactgcatattt	AA072381
73740	tatgctgtggcactgcatatttttg	AA072381
73741	gcactgcatatttttgggagcacct	AA072381
73742	tttgggagcacctttgataaagatg	AA072381
73743	cccagctccctgaggaagagatgca	AA072381
73744	agctccctgaggaagagatgcatga	AA072381
73745	cattggctgctgagctcaagggcaa	AA072381
73746	tggctgctgagctcaagggcaacga	AA072381
73747	tcgctcacctgcccaagagtagctt	AA072381
73748	acctgcccaagagtagctttgtgct	AA072381

SEQ ID NO	sequence	DBAxnID
116285	caccatgtctctgatgaagaatgag	AA154079
116286	aacctctctagtgctttgactaagc	AA154079
116287	aagatggctgctcaggccgagccca	AA154079
116288	ctcaggccgagcccattggcactga	AA154079
116289	caggccgagcccattggcactgaga	AA154079
116290	ggccgagcccattggcactgagact	AA154079
116291	cgacctgcaccatgggtctcagcag	AA154079
116292	acctgcaccatgggtctcagcagtt	AA154079
116293	ctgcaccatgggtctcagcagttgc	AA154079
116294	actcacaatcgagggagtgttggac	AA146203
116295	gagtgttggaccatccctggctcaa	AA146203
116296	gacagggccctggataatgtgctac	AA146203
116297	gataatgtgctaccctctgcccagc	AA146203
116298	taatgtgctaccctctgcccagctg	AA146203
116299	ccctctgcccagctgatgatggata	AA146203
116300	ctgcccagctgatgatggataaggc	AA146203
116301	atgaggatccaggacctcaaggtca	AA146203
116302	gaggatccaggacctcaaggtcagc	AA146203
116303	ggatccaggacctcaaggtcagcct	AA146203
116304	atccaggacctcaaggtcagcctca	AA146203
116305	tcaaggtcagcctcaaacccctgca	AA146203
116306	gtgttggaccatccctggctcaact	AA146203
116307	tggaccatccctggctcaactcgac	AA146203
116308	ccatccctggctcaactcgacaggg	AA146203
116309	atccctggctcaactcgacagggcc	AA146203
116310	ctggctcaactcgacagggccctgg	AA146203
116311	ggctcaactcgacagggccctggat	AA146203
116312	ctcaactcgacagggccctggataa	AA146203
116313	tcgacagggccctggataatgtgct	AA146203
116314	cagccttcaggtcgctttggctcag	W16171
116315	ggtcgctttggctcagctttggccg	W16171
116316	tactatggttcccagcaagggaggc	W16171
116317	ggttcccagcaagggaggctgtctt	W16171
116318	cctaaacgtcagcatctccttgcaa	W16171
116319	aaacgtcagcatctccttgcaagga	W16171
116320	cgtcagcatctccttgcaaggacac	W16171
116321	ctccttgcaaggacacctactgtaa	W16171
116322	cttgcaaggacacctactgtaactt	W16171
116323	aggacacctactgtaacttgggctg	W16171
116324	ggaccctcttggcaacagatgcaga	W16171
116325	ccctcttggcaacagatgcagacgg	W16171
116326	tcagctttggccgtgctggacttca	W16171
116327	gctttggccgtgctggacttcaacc	W16171
116328	ttggccgtgctggacttcaaccagg	W16171
116329	ctggacttcaaccaggatgggctgc	W16171
116330	gacttcaaccaggatgggctgcctg	W16171
116331	aaccaggatgggctgcctgacctgg	W16171
116332	gggcagctcacctacaatggctcgg	W16171
116333	cagctcacctacaatggctcggtgt	W16171
116334	gtccttgatcaacaccgaatatttg	J04696
116335	gacttcatgggtcgctttgagggcc	J04696
116336	gtgcagctttcttcttccttttcca	J04696
116337	ccaagcctctgggtccttgggctct	J04696
116338	ctctgggtccttgggctctccattt	J04696
116339	gtccttgggctctccatttcttcat	J04696
116340	gggctctccatttcttcattagtct	J04696
116341	tccatttcttcattagtctcctcct	J04696
116342	tcttcattagtctcctcctattccc	J04696
116343	tgctgccttggtcctcagagtaagc	J04696
116344	cttggtcctcagagtaagcagctaa	J04696
116345	cagctaagccccatttggttctcaa	J04696
116346	cgctttgagggcctgaagaagatat	J04696
116347	ttcctctccaagccaatctttgcaa	J04696
116348	tccaagccaatctttgcaaagatgg	J04696
116349	actcatgagtgctctgctggcccta	J04696
116350	gagtgctctgctggccctagctctt	J04696
116351	tctgctggccctagctcttaccacg	J04696
116352	agctcttaccacgtgcagctttctt	J04696

TABLE 1

SEQ ID NO:	sequence	DBAxnID
31145	cgtcaaaatgtcatccaccttcatt	W97055
31146	gtcaaaatgtcatccaccttcattg	W97055
31147	tcaaaatgtcatccaccttcattgg	W97055
31148	aaatgtcatccaccttcattggcaa	W97055
31149	aatgtcatccaccttcattggcaac	W97055
31150	actgtcttccgtgggcgcatgtcta	W97055
31151	ccaacaacgtcaaggtagccgtgtg	W97055
31152	caacaacgtcaaggtagccgtgtgt	W97055
31153	acaacgtcaaggtagccgtgtgtga	W97055
31154	caacgtcaaggtagccgtgtgtgac	W97055
31155	aacgtcaaggtagccgtgtgtgaca	W97055
31156	acgtcaaggtagccgtgtgtgacat	W97055
31157	cgtcaaggtagccgtgtgtgacatc	W97055
31158	gtcttagatacggagctgcggtaca	AA068302
31159	tgcggtacaagcccgacttgaaaga	AA068302
31160	ctctgagctatccggtgcaaccttg	AA068302
31161	gagctatccggtgcaaccttgttcg	AA068302
31162	gctatccggtgcaaccttgttcgtg	AA068302
31163	ggaacctcggattgacttcaggcat	AA068302
31164	aacctcggattgacttcaggcatta	AA068302
31165	tgacttcaggcattaccgggcagat	AA068302
31166	ttcaggcattaccgggcagatggcc	AA068302
31167	caggcattaccgggcagatggccct	AA068302
31168	ggcattaccgggcagatggcccttt	AA068302
31169	cattaccgggcagatggcccttgg	AA068302
31170	agaggcctccagaaaaagtagatgc	AA068302
31171	tgtgcaaacagatcctactgatgaa	AA068302
31172	tgcaaacagatcctactgatgaagt	AA068302
31173	cagatcctactgatgaagtgcccac	AA068302
31174	tcctactgatgaagtgcccaccaaa	AA068302
31175	actgatgaagtgcccaccaaaaagt	AA068302
31176	tgatgaagtgcccaccaaaaagtca	AA068302
31177	tgcccaccaaaaagtcaaagaagca	AA068302
31178	tcttctacgaaatcatcgactgctt	D17292
31179	acgaaatcatcgactgcttttccat	D17292
31180	ccatcatcattaccaaagagggcag	D17292
31181	ttaccaaagagggcagcctgccgct	D17292
31182	catccgaaacgttcaggcgtcctct	D17292
31183	ctcacctacactctgcaattctgta	D17292
31184	actctgcaattctgtagccagctaa	D17292
31185	gcttgttcagggccaatttaagtat	D17292
31186	tggatctttccttgatagtacacta	D17292
31187	atctttccttgatagtacactattt	D17292
31188	tagtacactatttgtttgggtactg	D17292
31189	actatttgtttgggtactgatgtct	D17292
31190	aaatcatcgactgcttttccatgct	D17292
31191	tcatcgactgcttttccatgctgca	D17292
31192	gcttttccatgctgcactgtgtggc	D17292
31193	tttccatgctgcactgtgtggccaa	D17292
31194	tcctctacaactttctcagcccgag	D17292
31195	tgctgagccttgtggtccgttacct	D17292
31196	agcactccatcatcattaccaaaga	D17292
31197	actccatcatcattaccaaagaggg	D17292
31198	tcctagggacctttgctgcctgctg	D21061
31199	ggacctttgctgcctgctggatgcc	D21061
31200	ataggacgctgcctctaccaagcgc	D21061
31201	taaattctttgcactggatctcaca	D21061
31202	ctttgcactggatctcacaagcaga	D21061
31203	actggatctcacaagcagaagcaat	D21061
31204	tgacatcttttagacacgtattgac	D21061
31205	cttttagacacgtattgacagtgga	D21061
31206	cgacttctcggctcagcattctgtt	D21061
31207	tcagcattctgttgtttggtttggg	D21061
31208	taatgggacctcatgtggccatgaa	D21061
31209	gacctcatgtggccatgaaattata	D21061
31210	ccctctattccttgatcgccgatta	D21061
31211	attccttgatcgccgattacaccta	D21061
31212	tcaaccctgtcatttacgctttcag	D21061

SEQ ID NO:	sequence	DBAxnID
73749	tgcccaagagtagctttgtgctgga	AA072381
73750	gtagctttgtgctggatgagtttaa	AA072381
73751	cctcggtctccccatagggagcatc	U57098
73752	ccccatagggagcatccagcgagtg	U57098
73753	gcactgaccatttcagaaatgggtt	U57098
73754	tattccacaagagaccaaaagctag	U57098
73755	tccacaagagaccaaaagctagagg	U57098
73756	ggttaagccctagctgctggcaaga	U57098
73757	taagccctagctgctggcaagatta	U57098
73758	ctttacagacacatccgacacgcgc	U57098
73759	agacacatccgacacgcgctgtctg	U57098
73760	cgacacgcgctgtctgagaatgaga	U57098
73761	ggtagccaggctgaacacaggagca	U57098
73762	tatttcgtagctcaaataaagtcca	U57098
73763	gagcatccagcgagtgcatgtgcta	U57098
73764	agtgcatgtgctatgctgctacagg	U57098
73765	gcatgtgctatgctgctacaggcca	U57098
73766	tgtgctatgctgctacaggccactg	U57098
73767	ctgctacaggccactgtctgtctat	U57098
73768	agagcacagcatccatgagatgcag	U57098
73769	cagcatccatgagatgcaggggttc	U57098
73770	agggcactgaccatttcagaaatgg	U57098
73771	cagtgactccaagtagctccacggg	AA073230
73772	gtgactccaagtagctccacggggg	AA073230
73773	gaacggcatactggcagggtgcaca	AA073230
73774	acggcatactggcagggtgcacatg	AA073230
73775	catactggcagggtgcacatggacc	AA073230
73776	gctgaccctgtacaagggatgcctg	AA073230
73777	tgaccctgtacaagggatgcctgtg	AA073230
73778	accctgtacaagggatgcctgtgaa	AA073230
73779	ggatgcctgtgaagctcttgtggac	AA073230
73780	atgcctgtgaagctcttgtggacac	AA073230
73781	agctcttgtggacacagggacactc	AA073230
73782	ctcttgtggacacagggacactctc	AA073230
73783	gggatctgtcctacctggagcgtca	AA073230
73784	tctgtcctacctggagcgtcactcg	AA073230
73785	tgtcctacctggagcgtcactcgaa	AA073230
73786	tcctacctggagcgtcactcgaacg	AA073230
73787	ctacctggagcgtcactcgaacggc	AA073230
73788	acctggagcgtcactcgaacggcat	AA073230
73789	actcgaacggcatactggcagggtg	AA073230
73790	tcgaacggcatactggcagggtgca	AA073230
73791	cccccatgtgaggagctgaaaccag	U08378
73792	ctgaaaccagaagctgcagagacgt	U08378
73793	cactctgtgagctgataccccaggc	U08378
73794	agctgataccccaggctggaactcc	U08378
73795	tgataccccaggctggaactcctgg	U08378
73796	taccccaggctggaactcctggctc	U08378
73797	gaactcctggctctgcactttcaac	U08378
73798	ctgcactttcaaccttgctaatatc	U08378
73799	caaccttgctaatatccacatagaa	U08378
73800	taatatccacatagaagctaggact	U08378
73801	tatccacatagaagctaggactaag	U08378
73802	taggactaagcccagaggttcctct	U08378
73803	cctaagcagccgaaccccatatcgt	U08378
73804	aagcagccgaaccccatatcgtctg	U08378
73805	cagccgaaccccatatcgtctgaaa	U08378
73806	cccatatcgtctgaaactcctaact	U08378
73807	atatcgtctgaaactcctaactttg	U08378
73808	tgctatctttgggcaatctgggcac	U08378
73809	gagagcacctctgagtctggggatg	U08378
73810	tcctggtgcccatgcatcctgttgc	U08378
73811	tattccctctacgactcattcttct	U58332
73812	gactcattcttctgattctccagcc	U58332
73813	gcccactgcagatcatcactgcaga	U58332
73814	tgcagatcatcactgcagaacgata	U58332
73815	tcatcactgcagaacgataaataac	U58332
73816	gctgatcattcttccatgttttgtg	U58332

SEQ ID NO:	sequence	DBAxnID
116353	taccacgtgcagctttcttcttcct	J04696
116354	ttgccaagctaatctgtagggctgg	M23384
116355	gggctggacctatggccaaggacac	M23384
116356	caggttctagtctcctgtgcactga	M23384
116357	ctagtctcctgtgcactgagggcca	M23384
116358	agggccacacaaacaccatgagaag	M23384
116359	acacaaacaccatgagaaggacctc	M23384
116360	acttaactgctgaagacacggacac	M23384
116361	aagacacggacactcctgccctgct	M23384
116362	ctcctgccctgctgtgtatagatgg	M23384
116363	tatctggacaaacccacttgtaaat	M23384
116364	ctcctgtaactttacctaagcagat	M23384
116365	taactttacctaagcagatataaat	M23384
116366	gacctatggccaaggacacactaat	M23384
116367	cactaataccgaactctgagctagg	M23384
116368	taccgaactctgagctaggaggctt	M23384
116369	actctgagctaggaggctttacgct	M23384
116370	ggcaccatagggtccggactccat	M23384
116371	ttttaggattcgcccattcctgtct	M23384
116372	atctttccttgcctgagaccagttg	M23384
116373	ggctgccaggttctagtctcctgtg	M23384
116374	cgtgttcttccttgccaggcaggca	M26385
116375	tgccaggcaggcagcacacagctct	M26385
116376	tatggaccagtgtgtcatgttgaaa	M26385
116377	taattaaggccctttccttgcagtg	M26385
116378	ccctttccttgcagtggaaatcaga	M26385
116379	tttccttgcagtggaaatcagacag	M26385
116380	acagtaactactgtaactgcaagtg	M26385
116381	actactgtaactgcaagtgagaggc	M26385
116382	caacaaactggaacccatccagtgg	M26385
116383	caaactggaacccatccagtggaag	M26385
116384	aactcagaggctttgtggctatact	M26385
116385	gctttgtggctatactgctgccgtt	M26385
116386	ggatgctttgccaacactcagaaat	M26385
116387	tgctttgccaacactcagaaatgcc	M26385
116388	tttgccaacactcagaaatgccaca	M26385
116389	ggacactcacagccctcattcagtg	M26385
116390	tcacagccctcattcagtgtgtaag	M26385
116391	ggcacattgactccttcagagtatg	M26385
116392	ttgactccttcagagtatggaccag	M26385
116393	actccttcagagtatggaccagtgt	M26385
116394	ttgctgttgctgaaaacgggagagt	M87861
116395	gccctggagcatcttcctcaccagg	M87861
116396	tgtttacacctctgctgctgagact	M87861
116397	cacctctgctgctgagactttcaca	M87861
116398	tgctgctgagactttcacagaaacc	M87861
116399	tttcacagaaacctccagatggtac	M87861
116400	ctccagatggtactaggggacacag	M87861
116401	cagagccaagacgtcacatctgact	M87861
116402	caagacgtcacatctgactgcagac	M87861
116403	gtcacatctgactgcagactttccc	M87861
116404	ctccaccaaagcacccaaagatcat	M87861
116405	caaagcacccaaagatcattgtttg	M87861
116406	gagcatcttcctcaccaggtgacca	M87861
116407	cttcctcaccaggtgaccaggctct	M87861
116408	tctcttgggattgcagagtagcaat	M87861
116409	tagcaatgttggtgggcaggcagac	M87861
116410	tttaagatctcctgggtcttccatg	M87861
116411	atctcctgggtcttccatgtttcat	M87861
116412	tgggtcttccatgtttcatatcaat	M87861
116413	ttccatgtttcatatcaatgaggtt	M87861
116414	agaacgtgattgccctcatctacct	U37419
116415	tgattgccctcatctacctggcctc	U37419
116416	aggccgccaagagcttcatcttgga	U37419
116417	ccaagagcttcatcttggacatgta	U37419
116418	acatgtatgcgcgcgtgtacgcgag	U37419
116419	gcttcttcgcacacttcacctgtgc	U37419
116420	tcgcacacttcacctgtgccacgga	U37419

TABLE 1

SEQ ID NO	sequence	DBAxnID
31213	ctgtcatttacgctttcagaaacca	D21061
31214	tttacgctttcagaaaccaagagat	D21061
31215	aagccctctgcctcatttgctgtgg	D21061
31216	tgtctcagagagctcggtctcccag	D21061
31217	tgtagcagccttctcctcataggac	D21061
31218	cccacctgaattccatgagcaatgc	W97166
31219	ccacctgaattccatgagcaatgca	W97166
31220	tggttgcctgtacgagcggctccat	W97166
31221	ttgcctgtacgagcggctccatgag	W97166
31222	tgcctgtacgagcggctccatgagt	W97166
31223	cctgtacgagcggctccatgagtta	W97166
31224	ctgtacgagcggctccatgagttac	W97166
31225	gtacgagcggctccatgagttacag	W97166
31226	tacgagcggctccatgagttacagc	W97166
31227	cgagcggctccatgagttacagctg	W97166
31228	cggctccatgagttacagctgaatg	W97166
31229	gctccatgagttacagctgaatgac	W97166
31230	acctgaattccatgagcaatgcaaa	W97166
31231	cctgaattccatgagcaatgcaaag	W97166
31232	tgaattccatgagcaatgcaaaggt	W97166
31233	gaattccatgagcaatgcaaaggtc	W97166
31234	attccatgagcaatgcaaaggtctt	W97166
31235	atgcaaaggtcttgtggaggatgag	W97166
31236	aattggttgcctgtacgagcggctc	W97166
31237	attggttgcctgtacgagcggctcc	W97166
31238	cctacacctagaaatctagctcata	D21062
31239	acacctagaaatctagctcatacca	D21062
31240	gagcaaccgagaattcctctgcgct	D21062
31241	caaccgagaattcctctgcgctgag	D21062
31242	ccgagaattcctctgcgctgaggcc	D21062
31243	gcaacccggcaaggcagtcgggatt	D21062
31244	tttcagcgccacagccatggcctgg	D21062
31245	cacagccatggcctgggggccaggc	D21062
31246	taccctgaggtgcccgagaggaggc	D21062
31247	tctgccaatcgggttatggccccca	D21062
31248	gttatggcccccagtgcattcctgt	D21062
31249	agtgcattcctgttcagtccccaac	D21062
31250	aatctagctcataccagggtatcct	D21062
31251	gctcataccagggtatcctcagcct	D21062
31252	tccatgaccccatttctgacctcag	D21062
31253	ctgctcgggtttgcagggagaacac	D21062
31254	tttaagaagccatcacctgagcaac	D21062
31255	aagccatcacctgagcaaccgagaa	D21062
31256	ccatcacctgagcaaccgagaattc	D21062
31257	tcacctgagcaaccgagaattcctc	D21062
31258	tctttacactcttatttgctggaga	W97373
31259	cactcttatttgctggagaaaagtt	W97373
31260	atacctttgtgctgatgcagctctt	W97373
31261	cctttgtgctgatgcagctcttcaa	W97373
31262	tgctgatgcagctcttcaatgaaat	W97373
31263	tgatgcagctcttcaatgaaataaa	W97373
31264	tgcagctcttcaatgaaataaacgc	W97373
31265	gaatcttcaataacgccatcttctg	W97373
31266	tcttcaataacgccatcttctgcac	W97373
31267	ataacgccatcttctgcaccattgt	W97373
31268	acgccatcttctgcaccattgtcct	W97373
31269	ccatcttctgcaccattgtcctggg	W97373
31270	ccccgtcagaacattacaccatcgt	W97373
31271	tctgcaccattgtcctgggcacctt	W97373
31272	cgtcagaacattacaccatcgtgtt	W97373
31273	aacattacaccatcgtgttcaatac	W97373
31274	attacaccatcgtgttcaatacctt	W97373
31275	acaccatcgtgttcaatacctttgt	W97373
31276	ccatcgtgttcaatacctttgtgct	W97373
31277	tgttcaatacctttgtgctgatgca	W97373
31278	tcaatacctttgtgctgatgcagct	W97373
31279	tggcacaacagcagatcccagcatg	D50050
31280	aacagcagatcccagcatggtcagc	D50050

SEQ ID NO:	sequence	DBAxnID
73817	tccatgttttgtgatcgagtagctc	U58332
73818	gtagctcacgagttcacatgctttt	U58332
73819	tttttcaatagctctacccacctgc	U58332
73820	taatgacttaactgttggtgcctga	U58332
73821	cttaactgttggtgcctgatgttga	U58332
73822	tgttggtgcctgatgttgatacaat	U58332
73823	cgtctcctgttccgactatggctgc	U58332
73824	ctgttccgactatggctgcacacct	U58332
73825	tggctgcacaccttacgtttatgct	U58332
73826	ttatgcttccaccctggatttcaat	U58332
73827	tttcaataccacgctacacaggtcc	U58332
73828	taccacgctacacaggtcctctctg	U58332
73829	ctctctgaatagcctgcaaacgaaa	U58332
73830	gaatagcctgcaaacgaaactctgg	U58332
73831	gtgcagacatcatccagaatgcaga	AA072620
73832	tcatccagaatgcagactggaccaa	AA072620
73833	agggatcccagtacgatgccaagtc	AA072620
73834	agtacgatgccaagtcagatatgta	AA072620
73835	atatgtatagcttgggtgtgatcct	AA072620
73836	atagcttgggtgtgatcctgctcga	AA072620
73837	tgatcctgctcgagctctttcagcc	AA072620
73838	tcctgctcgagctctttcagccatt	AA072620
73839	tgctcgagctctttcagccattcgg	AA072620
73840	agctctttcagccattcgggacaga	AA072620
73841	tctttcagccattcgggacagaaat	AA072620
73842	ttcagccattcgggacagaaatgga	AA072620
73843	aaggaacacggacacacacatccag	AA072620
73844	agtatatccagctcctaaccgggag	AA072620
73845	gaacacggacacacacatccagagt	AA072620
73846	cacggacacacacatccagagtggg	AA072620
73847	ggacttgtctctacgcgtcaccgga	AA072620
73848	gtctctacgcgtcaccggaacagct	AA072620
73849	tctacgcgtcaccggaacagctgga	AA072620
73850	caccggaacagctggagggatccca	AA072620
73851	aacagctggagggatcccagtacga	AA072620
73852	tgacatctttgagcgcatagcaaac	U62673
73853	agcaaacgaggcttctcgcctggcg	U62673
73854	caagtacaccagcgccaagtagagg	U62673
73855	cttttagtgagtcacccgctcaaat	U62673
73856	gtgagtcacccgctcaaatcagaag	U62673
73857	cacccgctcaaatcagaagagagct	U62673
73858	gagagctttgcccacttgcattagt	U62673
73859	tttgcccacttgcattagtttctag	U62673
73860	cacttgcattagtttctagttccta	U62673
73861	ctgtttgcagtttgctgcaccctac	U62673
73862	gcagtttgctgcaccctacttagct	U62673
73863	tgctgcaccctacttagcttcttgg	U62673
73864	caacaagcggtctacaatcacatcg	U62673
73865	gcggtctacaatcacatcgcgggag	U62673
73866	tacaatcacatcgcgggagatccag	U62673
73867	gatccagacctcggtgcgccttcta	U62673
73868	ggtgcgccttctactgcccggagaa	U62673
73869	actgcccggagaactggccaagcac	U62673
73870	actggccaagcacgccgtgtcggag	U62673
73871	caagcacgccgtgtcggagggcacc	U62673
73872	cctgaactccgatccctgctggaag	AA072611
73873	tgaactccgatccctgctggaaggt	AA072611
73874	cccacgtggcgaggtgaatggagct	AA072611
73875	gagctgacgctttcgacattggctc	AA072611
73876	gctgacgctttcgacattggctcct	AA072611
73877	tgacgctttcgacattggctccttt	AA072611
73878	gctttcgacattggctcctttgatg	AA072611
73879	cattggctcctttgatgaggaggac	AA072611
73880	ttggctcctttgatgaggaggacac	AA072611
73881	ggctcctttgatgaggaggacacaa	AA072611
73882	aatcaagttactggacagtgaccag	AA072611
73883	gttactggacagtgaccaggaaatt	AA072611
73884	ccgatccctgctggaaggtttgttg	AA072611

SEQ ID NO:	sequence	DBAxnID
116421	aaagcgtccgcagcgtgttcaagga	U37419
116422	tcaaggacgtgcgggactcggtgct	U37419
116423	tggacgagatcaacctgctgtgacg	U37419
116424	agatcaacctgctgtgacgcgggac	U37419
116425	gccagcccacaggagagagtccctg	U37419
116426	atgaccagtgcctagaggagaacga	U37419
116427	agaaccgcatggaggagagtctcgc	U37419
116428	tcagcacgatcctagagctgccctg	U37419
116429	tagagctgccctggttcaagagcac	U37419
116430	tgccctggttcaagagcacctcggt	U37419
116431	ggttcaagagcacctcggtcatcct	U37419
116432	agagcacctcggtcatcctcttcct	U37419
116433	agacggacatcctggaagataagat	U37419
116434	tgttcttaccactctcggagaaaga	W59215
116435	tcttaccactctcggagaaagatga	W59215
116436	ggccttcctgaagcatatcctaagc	W59215
116437	gaagcatatcctaagcctctgagct	W59215
116438	gcatatcctaagcctctgagctccg	W59215
116439	agcccctggtatccgcttgagaggc	W59215
116440	ccctggtatccgcttgagaggcaag	W59215
116441	tggtatccgcttgagaggcaagggt	W59215
116442	caagggtcctcgatccaccagatag	W59215
116443	gggtcctcgatccaccagatagaag	W59215
116444	tcctcgatccaccagatagaagcgc	W59215
116445	atccaccagatagaagcgcaggcag	W59215
116446	taccactctcggagaaagatgactg	W59215
116447	gagactgttctggcaggccacggac	W59215
116448	cacggacagcaacggctgcatcaac	W59215
116449	ggacagcaacggctgcatcaactat	W59215
116450	ctgcatcaactatgaggccttcctg	W59215
116451	catcaactatgaggccttcctgaag	W59215
116452	ctatgaggccttcctgaagcatatc	W59215
116453	tgaggccttcctgaagcatatccta	W59215
116454	gtgtacctcatctatggcatgtact	X74509
116455	ctcatctatggcatgtacttctgct	X74509
116456	agctttgaccagcgagacctggctc	X74509
116457	gaccagcgagacctggctcaagatg	X74509
116458	cgagacctggctcaagatgatgctg	X74509
116459	gagtccagtagcccagctgtggtgg	X74509
116460	gtggcagcagcccgtataggtattg	X74509
116461	aagcccttgcgcttctatgtccagg	X74509
116462	ccatgggtcagtgtggtagacagag	X74509
116463	atggatcagcctcagcaaacagcct	X74509
116464	acagcctgctctgaggggcttttaa	X74509
116465	tgctctgaggggcttttaattgttc	X74509
116466	tatggcatgtacttctgcttgaatg	X74509
116467	atgtacttctgcttgaatgtctcta	X74509
116468	agagcactagagcccctggagggcc	X74509
116469	ctggagaccatgcggcagcttcgta	X74509
116470	tccctcaaggaccgtgaactctgta	X74509
116471	ctctgtagtggtccctccaagctgt	X74509
116472	tgccaggccctggccattgataaga	X74509
116473	gccctggccattgataagagctttg	X74509
116474	tctctgaaaccagaggactagctga	L07924
116475	tagctgacttttgccaaggagtgtt	L07924
116476	attccaccttcagggcctacagagt	L07924
116477	ccttcagggcctacagagtgaggga	L07924
116478	agagaagccctctcgtgaactgccc	L07924
116479	gccctctcgtgaactgcccggttgg	L07924
116480	tcgtgaactgcccggttggtattga	L07924
116481	aatcccagtccactgaaagtgccat	L07924
116482	agtccactgaaagtgccattgacca	L07924
116483	gtgccattgaccaccgctgcatccg	L07924
116484	ttgaccaccgctgcatccgggctgt	L07924
116485	gcatccgggctgtacaagacgacac	L07924
116486	tggacactatccaccacactttgct	L07924
116487	ctcccggatgctccaggacacacat	L07924
116488	gatgctccaggacacacatacaccc	L07924

TABLE 1

SEQ ID NO	sequence	DBAxnID
31281	aatgtccatgggctaccagccgtac	D50050
31282	ctaccagccgtacaatatgcagaat	D50050
31283	gcagcccctgtaccagcagatggcc	D50050
31284	acagggaccgccagcacagggcagt	D50050
31285	ctttgactgaccttgagtctggcgc	D50050
31286	ctgaccttgagtctggcgctcacca	D50050
31287	ctcaccatgcagagtaacactacag	D50050
31288	gttcaccagaaaccacttatatgtc	D50050
31289	cagaaaccacttatatgtctaacta	D50050
31290	ccacttatatgtctaactagccatt	D50050
31291	agatcccagcatggtcagcgcctac	D50050
31292	ggtcagcgcctacatgtacccaaca	D50050
31293	catgtacccaacaggtgcccctggg	D50050
31294	cccaacaggtgcccctggggcacag	D50050
31295	aaccccaggctaccagagcgtggct	D50050
31296	gcctccacagaccagcaacataggc	D50050
31297	cagcaacataggctacatggggagc	D50050
31298	ctacatggggagccagccaatgtcc	D50050
31299	gactttcggcacctggacaaccttg	U36384
31300	ctggacaaccttgtggttcctcatg	U36384
31301	ctgttctttacgtctccatggcctg	U36384
31302	tttacgtctccatggcctgctcagc	U36384
31303	tctccatggcctgctcagctagccg	U36384
31304	tggcctgctcagctagccgtgtttt	U36384
31305	gctcagctagccgtgttttctattc	U36384
31306	ccctgtccagtgtatatgttgctta	U36384
31307	atattttaccagctaagtgactgcc	U36384
31308	taccagctaagtgactgccacgcgg	U36384
31309	ctaagtgactgccacgcggttgtgt	U36384
31310	gactgccacgcggttgtgtataacg	U36384
31311	gaccccagtgcccaagtgtttggca	U36384
31312	ggcatcagccttcctgccagtgact	U36384
31313	cctgccagtgacttctgtgccctca	U36384
31314	agtgacttctgtgccctcatctcct	U36384
31315	tggaccaaggctctcagaacaagaa	U36384
31316	ctcagaacaagaacccaagatccct	U36384
31317	gcccgcatactcctgttctttacgt	U36384
31318	atactcctgttctttacgtctccat	U36384
31319	accaggtagacatccccatggagaa	U73626
31320	cactcatcatctaccacgtcatcga	U73626
31321	accgcagtctgctggatgccctgac	U73626
31322	ccaagcccaagtttagcatctctcc	U73626
31323	ccaagtttagcatctctccagattc	U73626
31324	ttagcatctctccagattccttgtc	U73626
31325	tctctccagattccttgtcctgagt	U73626
31326	cagattccttgtcctgagttgcagt	U73626
31327	ccttgtcctgagttgcagttcctca	U73626
31328	cctgagttgcagttcctcaggcccc	U73626
31329	ccactcacttgtgtgggcacgtgga	U73626
31330	acttgtgtgggcacgtggaaagtga	U73626
31331	tcatctaccacgtcatcgactccaa	U73626
31332	acgacctggctcctagtgacctgca	U73626
31333	tggctcctagtgacctgcaccacca	U73626
31334	agatcattgtcatcttggaaggcgt	U73626
31335	ttgtcatcttggaaggcgtggtaga	U73626
31336	aggacggccgctattctgtggacta	U73626
31337	gccgctattctgtggactactccaa	U73626
31338	atgaggaccgcagtctgctggatgc	U73626
31339	tcgtcatgattctgaacaggataat	W96831
31340	ttcagacaacaataccatcttcgtg	W96831
31341	aactggacagcctatgattaatttg	W96831
31342	agtttcatttgatgacccaccttct	W96831
31343	ttcatttgatgacccaccttctgct	W96831
31344	atttgatgacccaccttctgctaaa	W96831
31345	ttctgctaaagcagctatcgactgg	W96831
31346	tgctaaagcagctatcgactggttt	W96831
31347	taaagcagctatcgactggtttgat	W96831
31348	agcagctatcgactggtttgatggt	W96831

SEQ ID NO:	sequence	DBAxnID
73885	gatccctgctggaaggtttgttgca	AA072611
73886	tccctgctggaaggtttgttgcaga	AA072611
73887	ttctttcgttccctggactggcaga	AA072611
73888	ctttcgttccctggactggcagatg	AA072611
73889	ttcgttccctggactggcagatggt	AA072611
73890	cgttccctggactggcagatggtct	AA072611
73891	ccctggactggcagatggtcttctt	AA072611
73892	ggaaaatgccggatccagcgaagtc	U62675
73893	aatgccggatccagcgaagtctgct	U62675
73894	ggcatctcatctaaggctatgggaa	U62675
73895	catctcatctaaggctatgggaatc	U62675
73896	tctcatctaaggctatgggaatcat	U62675
73897	ctgctgccgggagagttggctaaac	U62675
73898	tggctaaacacgctgtgtcggaagg	U62675
73899	gctaaacacgctgtgtcggaaggca	U62675
73900	taaacacgctgtgtcggaaggcacc	U62675
73901	tacaccagctccaagtgaagtgcag	U62675
73902	caccagctccaagtgaagtgcagca	U62675
73903	ccagctccaagtgaagtgcagcaga	U62675
73904	tgccggatccagcgaagtctgctcc	U62675
73905	ccggatccagcgaagtctgctcctg	U62675
73906	ggatccagcgaagtctgctcctgcc	U62675
73907	tattctgtctacgtgtacaaggtcc	U62675
73908	ttctgtctacgtgtacaaggtcctg	U62675
73909	gacacgggcatctcatctaaggcta	U62675
73910	cacgggcatctcatctaaggctatg	U62675
73911	cgggcatctcatctaaggctatggg	U62675
73912	atgccctgacgtcttttccacgctt	AA073236
73913	tgacgtcttttccacgcttccttct	AA073236
73914	acatccgcaaagagccctatggcca	AA073236
73915	catccgcaaagagccctatggccac	AA073236
73916	atccgcaaagagccctatggccaca	AA073236
73917	tccgcaaagagccctatggccacac	AA073236
73918	cgcaaagagccctatggccacacag	AA073236
73919	gcaaagagccctatggccacacagt	AA073236
73920	caaagagccctatggccacacagtg	AA073236
73921	gagccctatggccacacagtgccct	AA073236
73922	ctatggccacacagtgccctctcgg	AA073236
73923	tatggccacacagtgccctctcggg	AA073236
73924	tctgacgttgacatccgcaaagagc	AA073236
73925	ctgacgttgacatccgcaaagagcc	AA073236
73926	tgacgttgacatccgcaaagagccc	AA073236
73927	gacgttgacatccgcaaagagccct	AA073236
73928	cgttgacatccgcaaagagccctat	AA073236
73929	gttgacatccgcaaagagccctatg	AA073236
73930	ttgacatccgcaaagagccctatgg	AA073236
73931	tgacatccgcaaagagccctatggc	AA073236
73932	caagagacacgaccgacagtaccac	X98456
73933	cgttcgatcacaaaaggtcaagcgg	X98456
73934	ttacctcgagctcgagaactaccgc	X98456
73935	tcttatcctctttgatgcaaccagg	X98456
73936	cctctttgatgcaaccaggaagttt	X98456
73937	tccttcaggatattctcgatgagag	X98456
73938	atccgatttcaaacgtccagcatga	X98456
73939	tttcaaacgtccagcatgagctctg	X98456
73940	acgtccagcatgagctctggcaaga	X98456
73941	agcatgagctctggcaagaccaaga	X98456
73942	cctaaatggtccgcaaagcacgcca	X98456
73943	tggtccgcaaagcacgccagatcta	X98456
73944	cagtgtagacggttctcgggtgatt	X98456
73945	caggccatgcagacatccagtcgat	X98456
73946	atgcagacatccagtcgatccaaga	X98456
73947	acatccagtcgatccaagagacagc	X98456
73948	tcaaatgggcacagcggcgtggagc	X98456
73949	cgattgcactcatcgttggtgataa	X98456
73950	cactcatcgttggtgataaccagaa	X98456
73951	tgattcaaatgtccgcacgcgggaa	X98456
73952	cgaagctgtatcgcattcgttcttt	AA072712

SEQ ID NO	sequence	DBAxnID
116489	ggctgccgactgcattctctccttg	L07924
116490	cattctctccttgtgcccacaggca	L07924
116491	acaggcactggcctgggactttcat	L07924
116492	cactctagcctttctcaggctgcac	L07924
116493	gctgcaccaaagattccaccttcag	L07924
116494	tggtcttacatccgctactttacac	W77613
116495	tacatccgctactttacacatttgc	W77613
116496	atctctctggtcacaatgcaatcat	W77613
116497	ctggtcacaatgcaatcattaacac	W77613
116498	acaatgcaatcattaacacgctggc	W77613
116499	caatcattaacacgctggcggtcaa	W77613
116500	acaatggcaccatgcacctttggga	W77613
116501	gcaccatgcacctttgggactggag	W77613
116502	attttcagcgcgtccatgcagctgt	W77613
116503	agcgcgtccatgcagctgtacagcc	W77613
116504	tacagcctgggtctttggacagtga	W77613
116505	ttgcttgtgctttcgatcggtcaga	W77613
116506	cgctactttacacatttgcgtctgg	W77613
116507	tttacacatttgcgtctggttctcc	W77613
116508	catttgcgtctggttctccagataa	W77613
116509	gttctccagataacataaagcagtg	W77613
116510	ggaaattccccgatggaggcttcat	W77613
116511	tccccgatggaggcttcattcaaaa	W77613
116512	gcttcattcaaaatctctctggtca	W77613
116513	ttcaaaatctctctggtcacaatgc	W77613
116514	ttcagcccgtggaccacagctatgt	W15890
116515	gtggaccacagctatgtagtagcca	W15890
116516	cactgaggccggtctgcgagaaacc	W15890
116517	ctgaggccggtctgcgagaaaccca	W15890
116518	ctagaggccattgctcaggacccaa	W15890
116519	aggccattgctcaggacccaaacac	W15890
116520	cattgctcaggacccaaacacatgt	W15890
116521	ttgctcaggacccaaacacatgtga	W15890
116522	gctcaggacccaaacacatgtgaga	W15890
116523	tcaggacccaaacacatgtgagatc	W15890
116524	gacccaaacacatgtgagatctgtg	W15890
116525	cccaaacacatgtgagatctgtgcc	W15890
116526	ggaccacagctatgtagtagccact	W15890
116527	gctatgtagtagccactctgcactt	W15890
116528	tatgtagtagccactctgcacttcc	W15890
116529	tagtagccactctgcacttccagaa	W15890
116530	agccactctgcacttccagaagcac	W15890
116531	ccactctgcacttccagaagcactg	W15890
116532	tctgcacttccagaagcactgaggc	W15890
116533	cacttccagaagcactgaggccggt	W15890
116534	tggcagctcaacttccgggtcaggc	W64785
116535	gcagctcaacttccgggtcaggctc	W64785
116536	cgcatgcgcagagagttaggtctct	W64785
116537	ggtctcttttttctcgtcttccagca	W64785
116538	ctctttttctcgtcttccagcattc	W64785
116539	ctttttctcgtcttccagcattctc	W64785
116540	tttctcgtcttccagcattctccga	W64785
116541	ttctcgtcttccagcattctccgag	W64785
116542	tcgtcttccagcattctccgagact	W64785
116543	gtcttccagcattctccgagactta	W64785
116544	tcttccagcattctccgagacttaa	W64785
116545	ttccagcattctccgagacttaagg	W64785
116546	cagctcaacttccgggtcaggctct	W64785
116547	ttccgggtcaggctctaacgcatgc	W64785
116548	gtcaggctctaacgcatgcgcagag	W64785
116549	caggctctaacgcatgcgcagagag	W64785
116550	aggctctaacgcatgcgcagagagt	W64785
116551	gctctaacgcatgcgcagagagtta	W64785
116552	ctaacgcatgcgcagagagttaggt	W64785
116553	taacgcatgcgcagagagttaggtc	W64785
116554	gacacatccctacatagtggaggaa	L28756
116555	agactattccttagaatatttcata	L28756
116556	catagaatttcccctacacagacca	L28756

TABLE 1

SEQ ID NO	sequence	DBAxnID
31349	agctatcgactggtttgatggtaaa	W96831
31350	tatcgactggtttgatggtaaagaa	W96831
31351	agacaacaataccatcttcgtgcaa	W96831
31352	caataccatcttcgtgcaaggccta	W96831
31353	taccatcttcgtgcaaggcctaggc	W96831
31354	cttcgtgcaaggcctaggcgagaat	W96831
31355	gcaaggcctaggcgagaatgttaca	W96831
31356	atctgtggctgattacttcaagcag	W96831
31357	tgattacttcaagcagattggaatt	W96831
31358	ttacttcaagcagattggaattatt	W96831
31359	acttcaatgagaccgtgcttactgt	W82209
31360	tcaatgagaccgtgcttactgtgtg	W82209
31361	atgagcacctccagaaagatttcat	W82209
31362	acctccagaaagatttcatcatctt	W82209
31363	aagatttcatcatcttcgaggctgc	W82209
31364	tcatcttcgaggctgcaccccaaga	W82209
31365	tcttcgaggctgcaccccaagagac	W82209
31366	tcgaggctgcaccccaagagacacg	W82209
31367	ctgcaccccaagagacacgtggcat	W82209
31368	agccagtggccgactatttcctgtg	W82209
31369	cagtggccgactatttcctgtgact	W82209
31370	atttcctgtgactccttggccccag	W82209
31371	atgagaccgtgcttactgtgtggtc	W82209
31372	tgcttactgtgtggtcagcgcctaa	W82209
31373	ttactgtgtggtcagcgcctaatta	W82209
31374	tgtggtcagcgcctaattactgcta	W82209
31375	cagcgcctaattactgctaccgctg	W82209
31376	attactgctaccgctgtggcaatgt	W82209
31377	accgctgtggcaatgtggcagccat	W82209
31378	aactggatgagcacctccagaaaga	W82209
31379	tttagatgtcaccctggctttatca	M23529
31380	tgtcaccctggctttatcatgaaag	M23529
31381	cctcttctggccaaatgtgtatctc	M23529
31382	aaatgtgtatctcgctcaatcagtg	M23529
31383	gtatctcgctcaatcagtggtctaa	M23529
31384	cgctcaatcagtggtctaattgttg	M23529
31385	gacagctgtgtccgccttcagtctc	M23529
31386	cgccttcagtctctgctcacaagtc	M23529
31387	cagtctctgctcacaagtcaggaga	M23529
31388	ctgctcacaagtcaggagaacagca	M23529
31389	aacagcagtaccactagcccagcac	M23529
31390	agtaccactagcccagcacggaatt	M23529
31391	gtgcattgtcagtccctaaacaaat	M23529
31392	gtaccactagcccagcacggaattc	M23529
31393	tgtcagtccctaaacaaatgggagc	M23529
31394	ccagagttaccaagctgcttcaagg	M23529
31395	agctgcttcaagggagtgatatgtc	M23529
31396	atatgtcgtctccctcaggagatga	M23529
31397	ggcagttctcaaagccagtgccagt	M23529
31398	tctcaaagccagtgccagtctgatg	M23529
31399	tgccagtctgatggcagctggaatc	M23529
31400	tctattcgctgtctgtgagacacag	U29056
31401	ttcccaacaactggtactacatctc	U29056
31402	cacctgtcaccttgcgccagaagac	U29056
31403	tgcgccagaagacctttgactggaa	U29056
31404	cagagaacccactcagagtggacga	U29056
31405	acccactcagagtggacgaatccct	U29056
31406	aatccctttcagctatggtcttcg	U29056
31407	ttttcagctatggtcttcgggaaag	U29056
31408	gctatggtcttcgggaaagcattgc	U29056
31409	gcagctccttcgaccggaagaagaa	U29056
31410	tctccctaatgtacactggcagcaa	U29056
31411	taatgtacactggcagcaaacgcaa	U29056
31412	acaactggtactacatctcaccaag	U29056
31413	ggctcaccttccaatgcctggagga	U29056
31414	ccttccaatgcctggaggacctggt	U29056
31415	aatgcctggaggacctggtgactca	U29056
31416	tgactcattattctgaagtggctga	U29056

SEQ ID NO:	sequence	DBAxnID
73953	aagctgtatcgcattcgttctttct	AA072712
73954	cctaccatcgatgacacactcggaa	AA072712
73955	taccatcgatgacacactcggaacg	AA072712
73956	atgacacactcggaacgcatcactg	AA072712
73957	gacacactcggaacgcatcactggc	AA072712
73958	cactcggaacgcatcactggcaatc	AA072712
73959	gcatcactggcaatctctttgcacg	AA072712
73960	cactggcaatctctttgcacgcgta	AA072712
73961	ggcaatctctttgcacgcgtatacc	AA072712
73962	caatctctttgcacgcgtatacccc	AA072712
73963	ttgcacgcgtataccctaacgccg	AA072712
73964	tatcgcattcgttctttctcatcac	AA072712
73965	tcgcattcgttctttctcatcacac	AA072712
73966	gcattcgttctttctcatcacacgt	AA072712
73967	ttcggaataacctgcgactctcgct	AA072712
73968	tgcgactctcgctaggagatgtcat	AA072712
73969	actctcgctaggagatgtcatcagc	AA072712
73970	cacgttcctaccatcgatgacacac	AA072712
73971	cgttcctaccatcgatgacacactc	AA072712
73972	attgcactgaaccacacttgagagc	X96606
73973	gcactgaaccacacttgagagcata	X96606
73974	ataatccttaagctctggaacccat	X96606
73975	atccttaagctctggaacccataca	X96606
73976	cttaagctctggaacccatacaagt	X96606
73977	aagctctggaacccatacaagtgat	X96606
73978	tggaacccatacaagtgataagaag	X96606
73979	cacaaaagcaatccatgtgaatgac	X96606
73980	tgacttcaactgtatgagtattaca	X96606
73981	tcttttccattttactgtaacatga	X96606
73982	tcttacttttgtcagaattctacat	X96606
73983	ttttgtcagaattctacatgtaact	X96606
73984	ctgaaccacacttgagagcatacgt	X96606
73985	aaccacacttgagagcatacgtaca	X96606
73986	catacgtacattcatataatgttcg	X96606
73987	gattctgttcatactaagctatttg	X96606
73988	tctgttcatactaagctatttgaag	X96606
73989	aaatcagctattttcagaatacatg	X96606
73990	taatttaccataatccttaagctct	X96606
73991	tttaccataatccttaagctctgga	X96606
73992	aggacattctgccttgtcaataaag	U34259
73993	tgccttgtcaataaagcctatacca	U34259
73994	cattgttagcctttagctgagggta	U34259
73995	tgactacagtgttgaggatgaatag	U34259
73996	cacctgcagtttccagctcgatgaa	U34259
73997	ctgcagtttccagctcgatgaaaca	U34259
73998	tttccagctcgatgaaacaggagag	U34259
73999	ccagtttgacttgactgtggaagat	U34259
74000	gtttgacttgactgtggaagatgat	U34259
74001	tgacttgactgtggaagatgatggt	U34259
74002	ttgcatgcttctcaattgtacgttt	U34259
74003	tctcaattgtacgtttccatcttgg	U34259
74004	aaagcctataccagcttctcgtctt	U34259
74005	gcctataccagcttctcgtcttgtt	U34259
74006	tataccagcttctcgtcttgtttat	U34259
74007	gcctctcagacttgtttgatagaaa	U34259
74008	gaaagtacactgtcttgtctgagca	U34259
74009	caaacactaaggagcttttggacat	U34259
74010	gcaagagccaagtgccattgttagc	U34259
74011	agagccaagtgccattgttagcctt	U34259
74012	cggcactaggtagctgctgagccgc	AA097369
74013	cactaggtagctgctgagccgcgtt	AA097369
74014	cagcgggctcctaatggccagcgtc	AA097369
74015	ggctcctaatggccagcgtccggtg	AA097369
74016	gctcctaatggccagcgtccggtgg	AA097369
74017	tcctaatggccagcgtccggtggac	AA097369
74018	taatggccagcgtccggtggaccgc	AA097369
74019	aatggccagcgtccggtggaccgca	AA097369
74020	ggtggaccgcaacctactggagctg	AA097369

SEQ ID NO	sequence	DBAxnID
116557	cctacacagaccaaatcatagcaga	L28756
116558	acacagaccaaatcatagcagagat	L28756
116559	cagaccaaatcatagcagagatatt	L28756
116560	agaacgcagtcctgaaaagtatgtc	L28756
116561	cagagtatcacgtgctttgttcaac	L28756
116562	ttagactacaacacccactcactcg	L28756
116563	acccactcactcgggaaagtatgtg	L28756
116564	tgtgaactcacattcaataattact	L28756
116565	gaactcacattcaataattactaat	L28756
116566	ctattccttagaatatttcatactg	L28756
116567	atatttcatactgtacagtatatag	L28756
116568	atgttagctgacagtcatgagtagt	L28756
116569	ttagctgacagtcatgagtagtgtt	L28756
116570	taatatacaatccactttaacaaca	L28756
116571	tatacaatccactttaacaacatgg	L28756
116572	ttgtctatcaccttaactacggaat	L28756
116573	aactcaaggccaggagagcatagaa	L28756
116574	gtggacaacagcatctcggtgtctg	W17473
116575	aacagcatctcggtgtctgtgccca	W17473
116576	tggagtgacacccagaacaacttct	W17473
116577	agtgacacccagaacaacttctccg	W17473
116578	cagaacaacttctccgtgacgtgcg	W17473
116579	ctctgccccagctggaaatccgagg	W17473
116580	aaatccgaggatcctacaatctgca	W17473
116581	gatcctacaatctgcaggacctgct	W17473
116582	tgcaggacctgctggctgaggacaa	W17473
116583	aggacctgctggctgaggacaagct	W17473
116584	caaatctgaacaacattggtgacac	W17473
116585	ttctcaatagcatcctcctcgaact	W17473
116586	atctcggtgtctgtgcccatgatct	W17473
116587	tcctcctcgaactcaaagcaggaga	W17473
116588	tcggtgtctgtgcccatgatctccg	W17473
116589	gtgtctgtgcccatgatctccggca	W17473
116590	atgatctccggcactggcaacttcc	W17473
116591	tccggcactggcaacttccagcact	W17473
116592	actggcaacttccagcactggagtg	W17473
116593	aacttccagcactggagtgacaccc	W17473
116594	ttccagcactggagtgacacccaga	W17473
116595	tgtcccatgtctatgaagctcaaga	M14872
116596	tgtgactacctctgcagtttctgtg	M14872
116597	ctactgctgactgtgtgtttggaag	M14872
116598	ggctgctccagccagcactggtcct	M14872
116599	tccagccagcactggtcctatgggt	M14872
116600	gcagaaccccagcacttcgaatgta	M14872
116601	cacttcgaatgtactgtccactggc	M14872
116602	atgtagatgcactggcccaggtgga	M14872
116603	taacattgaccctgaggcttgtgac	M14872
116604	ttgtgacctgttatggctctgtaat	M14872
116605	ttttatacccagcagcgtagatttc	M14872
116606	acccagcagcgtagatttcataata	M14872
116607	agtggtccaggagctggcctctttg	M14872
116608	ctctttgctaagcattcttcactct	M14872
116609	gctaagcattcttcactctgtgtct	M14872
116610	cattcttcactctgtgtcttgatgt	M14872
116611	tcactctgtgtcttgatgtccctta	M14872
116612	gacatgatcctcaaactgatggccg	M14872
116613	aaactgatggccggcattctactgc	M14872
116614	atggccggcattctactgctgactg	M14872
116615	gcatttccaagtctgagttagttgc	W17482
116616	tttccaagtctgagttagttgccat	W17482
116617	ccaaaggcactggccttgatgaggc	W17482
116618	aaggcactggccttgatgaggcaat	W17482
116619	gcactggccttgatgaggcaatgga	W17482
116620	ttgaaaccctgaaaagcagacagtg	W17482
116621	aaaccctgaaaagcagacagtgagc	W17482
116622	gacagtgagcccattcacgtcagcg	W17482
116623	agtgagcccattcacgtcagcgcct	W17482
116624	attcacgtcagcgcctgtgagccaa	W17482

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
31417	gtctggcacagaacatacctgctcc	U29056	74021	gtggaccgcaacctactggagctga	AA097369	116625	gcctgtgagccaacgctacatcaca	W17482
31418	cacagaacatacctgctccaacatc	U29056	74022	ggaccgcaacctactggagctgaaa	AA097369	116626	tgtgagccaacgctacatcacatac	W17482
31419	cttgcaccagccctggttcacctgt	U29056	74023	gaccgcaacctactggagctgaaaa	AA097369	116627	tagttgccatgttggaggaagaaga	W17482
31420	cctctgcactcttcatggcgaagaa	AA009169	74024	actaggtagctgctgagccgcgttg	AA097369	116628	gagccaacgctacatcacatactca	W17482
31421	ctgcactcttcatggcgaagaagaa	AA009169	74025	taggtagctgctgagccgcgttgcc	AA097369	116629	tggcaaatgctcttgggttacctgc	W17482
31422	cagccagcaagctggagcaggggaa	AA009169	74026	aggtagctgctgagccgcgttgcct	AA097369	116630	atgctcttgggttacctgccctgaa	W17482
31423	gtgagactccagcagccaagcgtct	AA009169	74027	gtagctgctgagccgcgttgcctgc	AA097369	116631	ctgccctgaaggaccggaagtggca	W17482
31424	agactccagcagccaagcgtcttcg	AA009169	74028	tagctgctgagccgcgttgcctgcg	AA097369	116632	ccctgaaggaccggaagtggcagat	W17482
31425	ctccagcagccaagcgtcttcggat	AA009169	74029	ctgctgagccgcgttgcctgcggac	AA097369	116633	aaacttcagcaaccaaaggcactgg	W17482
31426	cccagagcctgtctgggaagtccac	AA009169	74030	tgggtgtcctgacctcgctggctta	AA097369	116634	cttcagcaaccaaaggcactggcct	W17482
31427	agagcctgtctgggaagtccacacc	AA009169	74031	tggcttactgcttccaccagcggcg	AA097369	116635	cagcaaccaaaggcactggccttga	W17482
31428	cacccagcagcggtgatgtccaggt	AA009169	74032	agctcttagttacgtctagtagaga	D50418	116636	ggctccagataaacttgccatccat	X67319
31429	ccagcagcggtgatgtccaggtgac	AA009169	74033	tagttacgtctagtagagagaatgg	D50418	116637	catccatcctgtgaaaggtgacagg	X67319
31430	gtgatgtccaggtgacagaggacgc	AA009169	74034	tacccttgttattctgcatgttaaa	D50418	116638	tttgagatttctcgtgtgaatcaga	X67319
31431	tgtccaggtgacagaggacgctgtg	AA009169	74035	tgttattctgcatgttaaagctgga	D50418	116639	atttctcgtgtgaatcagagtagcc	X67319
31432	cactcttcatggcgaagaagaagac	AA009169	74036	agctggaattcttgggcgtgtatgg	D50418	116640	aatcagagtagcctcacttggtcag	X67319
31433	gttcaaagggcaccagtcggccagg	AA009169	74037	aattcttgggcgtgtatggcagact	D50418	116641	tggtcagttctgggtccctggtctc	X67319
31434	gcaccagtcggccagggactcccag	AA009169	74038	gcagactaccctgctacatcctcaa	D50418	116642	ggtccctggtctctgactctgcctt	X67319
31435	cagggactcccagtgcagaagcagc	AA009169	74039	taccctgctacatcctcaatatgtg	D50418	116643	ctgactctgcctttctgctgcctcg	X67319
31436	ggactcccagtgcagaagcagcaag	AA009169	74040	gctacatcctcaatatgtgaacatt	D50418	116644	tgtatctaatgtcgatccccttagg	X67319
31437	cagaagcagcaagcacctcttctac	AA009169	74041	ttctcaagtgtttttgacagatcat	D50418	116645	aatgtacatctgcttttgtatgcac	X67319
31438	aagcagcaagcacctcttctaccct	AA009169	74042	ttagatattaccaccatatgtttta	D50418	116646	cttttgtatgcactcattaaacatt	X67319
31439	ctaccctgcgggctgcagccagcaa	AA009169	74043	tatatcgcatgtgcctctttgggtt	D50418	116647	tatgcactcattaaacattgtaaca	X67319
31440	aagactacgataggcttcggcactc	W33636	74044	agaatggtctctagcattcaaagga	D50418	116648	accgtcattgtcattgccttcagat	X67319
31441	gactacgataggcttcggcactctc	W33636	74045	gtctctagcattcaaaggaggttca	D50418	116649	attgtcattgccttcagataagaga	X67319
31442	tgatctgcttctccctggtgagccc	W33636	74046	ttaatacatgtctggtgcctttctt	D50418	116650	attgccttcagataagagagaactc	X67319
31443	acacccatccttctggtgggcacca	W33636	74047	tggtgcctttcttgtgttgtgaaag	D50418	116651	tccagtccacttgccaagagtttcc	X67319
31444	acccatccttctggtgggcaccaag	W33636	74048	ctttcttgtgttgtgaaaggcaagt	D50418	116652	ccacttgccaagagtttcccagaga	X67319
31445	tgggcaccaagctggacctccgtta	W33636	74049	aattgcacactgaccttaactctct	D50418	116653	gagtcagcccgggatggacacacta	X67319
31446	ggcaccaagctggacctccgttatt	W33636	74050	acactgaccttaactctctgtatgt	D50418	116654	cacactaacatctgtgtccaagttc	X67319
31447	tccgttattacccaagatacgattg	W33636	74051	tgtatgtacccttgttattctgcat	D50418	116655	caagttcacacttttgagatttctc	X67319
31448	gattgaaccgcttccggacaaagag	W33636	74052	ttggagccaatgtctccaacttcac	D31717	116656	agaactgcagtcagcctgaagcctg	M83336
31449	caaagccctggccatggcccaaaag	W33636	74053	ccaatgtctccaacttcacatttgc	D31717	116657	gcagtcagcctgaagcctgtccaga	M83336
31450	gccctggccatggcccaaaagaatt	W33636	74054	ccagattgtctgtccctttgtcttg	D31717	116658	aaggctctacagcggatgctcttgg	M83336
31451	cctggccatggcccaaaagaattgg	W33636	74055	tgtctgtccctttgtcttgatgcct	D31717	116659	gttacttgccacagactgtaagaca	M83336
31452	ctacgataggcttcggcactctcct	W33636	74056	ctgtccctttgtcttgatgcctggc	D31717	116660	gctacatgccgcagtgaaggactgg	M83336
31453	tggccatggcccaaaagaattggtt	W33636	74057	tgtcttgatgcctggcaagatgctg	D31717	116661	ggactggctcctgaacttcagcagg	M83336
31454	taggcttcggcactctcctatcctc	W33636	74058	cttgatgcctggcaagatgctgtga	D31717	116662	gaacttcagcaggaactgcaaaata	M83336
31455	ggcttcggcactctcctatcctcaa	W33636	74059	atcccaggctacccagatgttgtat	D31717	116663	atgagaaacagtcctcactccctga	M83336
31456	ctcctatcctcaaacagatgtcttt	W33636	74060	ggctacccagatgttgtatttgaaa	D31717	116664	cctcactccctgaagataggcattg	M83336
31457	cctatcctcaaacagatgtctttct	W33636	74061	gtaattcatcatcagctttggaata	D31717	116665	aaagtcacacctgggccgtctccat	M83336
31458	tatcctcaaacagatgtctttctga	W33636	74062	attcatcatcagctttggaataaag	D31717	116666	acacctgggccgtctccattccaga	M83336
31459	tcctcaaacagatgtctttctgatc	W33636	74063	catcatcagctttggaataaagaga	D31717	116667	gggccgtctccattccagagtagct	M83336
31460	tttctgatctgcttctccctggtga	W33636	74064	catttgctcctagcacagttatctt	D31717	116668	agcctgaagcctgtccagagatttc	M83336
31461	catcaggctccacagattgcagccc	D50311	74065	ttgctcctagcacagttatcttcca	D31717	116669	ctccattccagagtagctggaattc	M83336
31462	gctccacagattgcagcccgggaga	D50311	74066	cgatgctgggcctcaagtacctggc	D31717	116670	ttttgtccggcaatgaggaggattt	M83336
31463	cagtcactgggacctctggcgactt	D50311	74067	ctcacttttgcttcacagagcaga	D31717	116671	ttgtcagactgaagcagcagcaggt	M83336
31464	ttgccaggccccttgcagagccact	D50311	74068	ttttgcttcacagagcagacatgtt	D31717	116672	atcacatttctcagccctatggatc	M83336
31465	acagctggccacggtagcgctccaa	D50311	74069	tgcttcacagagcagacatgtttgg	D31717	116673	tttctcagccctatggatccgagca	M83336
31466	agcctccacagagttcccaaagtct	D50311	74070	cagacatgtttgggcccagattgtc	D31717	116674	agccctatggatccgagcaacggag	M83336
31467	cacagagttcccaaagtctcatgtt	D50311	74071	acatgtttgggcccagattgtctgt	D31717	116675	atggatccgagcaacggaggctgtt	M83336
31468	gttcccaaagtctcatgttccctgt	D50311	74072	tcagcaacaggtttcatgaggacag	AA072636	116676	ttcaggaaggctctacagcggatgc	M83336
31469	tcatgttccctgtaccaccaggagg	D50311	74073	ctgacatgcagtgcaaacagaggac	AA072636	116677	aggtgcacagactttgccgtcctgc	W17549
31470	ctgtgcatcactaaggccctgtccc	D50311	74074	gctaaaatatcccatccaagtgaac	AA072636	116678	gtgcacagactttgccgtcctgcct	W17549
31471	cgctgcatcaataaagcccaaggac	D50311	74075	atcccatccaagtgaactggaacca	AA072636	116679	tgttggcgccacataactgatcctt	W17549
31472	agagctcccgagcctggaatagcca	D50311	74076	cccatccaagtgaactggaaccact	AA072636	116680	gttggcgccacataactgatccttt	W17549
31473	cctggccaccaacgagggacgctgt	D50311	74077	ctggaaccactggatacatgggact	AA072636	116681	ttggcgccacataactgatcctttc	W17549
31474	gagctcccgagcctggaatagccac	D50311	74078	ggaaccactggatacatgggactgt	AA072636	116682	tggcgccacataactgatcctttca	W17549
31475	ggccagttgcccgcagtctgtgcaa	D50311	74079	ccactggatacatgggactgtcctg	AA072636	116683	ggcgccacataactgatcctttcaa	W17549
31476	ttgcccgcagtctgtgcaaggaggg	D50311	74080	tacatgggactgtcctgaggagttc	AA072636	116684	gcgccacataactgatcctttcaag	W17549
31477	cacctccggtcagcatcaagtctga	D50311	74081	actgtcctgaggagttctggggtca	AA072636	116685	cgccacataactgatcctttcaagc	W17549
31478	cggtcagcatcaagtctgagcgact	D50311	74082	ggtcacaggcaactgtgtagtactt	AA072636	116686	gccacataactgatcctttcaagca	W17549
31479	gcatcaagtctgagcgactgtctcc	D50311	74083	tcacaggcaactgtgtagtacttca	AA072636	116687	tgcacagactttgccgtcctgccta	W17549
31480	agcgactgtctccagtcactgggac	D50311	74084	gttcttcccaaatctagaatctggg	AA072636	116688	gcacagactttgccgtcctgcctag	W17549
31481	tgtctccagtcactgggacctctgg	D50311	74085	ttcccaaatctagaatctggggcag	AA072636	116689	cacagactttgccgtcctgcctagc	W17549
31482	agcctgagaccatggcccgaatcgc	W97456	74086	cccaaatctagaatctggggcagta	AA072636	116690	acagactttgccgtcctgcctagct	W17549
31483	gcctgagaccatggcccgaatcgca	W97456	74087	aatctagaatctggggcagtacccg	AA072636	116691	gtcctgcctagctctcctcacgaag	W17549
31484	gaatcgcacagggtccatgtaccga	W97456	74088	ggcagtacccgatgaatgaaggtac	AA072636	116692	tcctgcctagctctcctcacgaagt	W17549

TABLE 1

SEQ ID NO	sequence	DBAxnID
31485	aatcgcacagggtccatgtaccgag	W97456
31486	atcgcacagggtccatgtaccgagg	W97456
31487	tcgcacagggtccatgtaccgaggc	W97456
31488	cgcacagggtccatgtaccgaggct	W97456
31489	gcacagggtccatgtaccgaggctc	W97456
31490	cacagggtccatgtaccgaggctct	W97456
31491	acagggtccatgtaccgaggctctg	W97456
31492	ttctcagacgtttgacgcaaatcag	W97456
31493	tctcagacgtttgacgcaaatcagg	W97456
31494	accatggcccgaatcgcacagggtc	W97456
31495	ccatggcccgaatcgcacagggtcc	W97456
31496	catggcccgaatcgcacagggtcca	W97456
31497	ggcccgaatcgcacagggtccatgt	W97456
31498	gcccgaatcgcacagggtccatgta	W97456
31499	cccgaatcgcacagggtccatgtac	W97456
31500	ccgaatcgcacagggtccatgtacc	W97456
31501	cgaatcgcacagggtccatgtaccg	W97456
31502	gaatctgtgcctcctaatttaccag	D31951
31503	gtaattcaccttcagtttaacagca	D31951
31504	tcatacttctaaccccatcagtgca	D31951
31505	ttctaaccccatcagtgcagcttat	D31951
31506	ccccatcagtgcagcttataaccta	D31951
31507	catgtgcctaatgtctaaaggaaca	D31951
31508	ttaccgttttatctcactatgatgg	D31951
31509	ttttatctcactatgatggaagttt	D31951
31510	atccagcctgaatctcttagttcaa	D31951
31511	ataccaaaccactatctaaatagca	D31951
31512	aatagcatgcttttacacagacact	D31951
31513	ttacacagacacttgcttgagatac	D31951
31514	caccttcagtttaacagcatatctt	D31951
31515	ttccaagaaacttgcaactgtttgt	D31951
31516	aacagcatatcttcacttacagatg	D31951
31517	atatcttcacttacagatgatacat	D31951
31518	aaggctaatgacactcgttacattc	D31951
31519	aatgacactcgttacattcgggagc	D31951
31520	actcgttacattcgggagcgaattg	D31951
31521	ggcaatccaattgctctgggaaagc	D31951
31522	ggaaagcatccaaacagttttatct	D31951
31523	atctcctacaagctcaacggaaaga	M74495
31524	tacaagctcaacggaaagaggattc	M74495
31525	ttttagatgccaagtggaagccggc	M74495
31526	cagtgtgccaccgtgagtgacagcc	M74495
31527	gacagccgcagcgagaccctcggca	M74495
31528	cgcagcgagaccctcggcagtgcca	M74495
31529	gagaccctcggcagtgccaccaaca	M74495
31530	cctacaacaattttacatgtgtgaa	M74495
31531	ctcataacagaggccttcactgact	M74495
31532	gccttcactgactgattgtcacatg	M74495
31533	actgactgattgtcacatggtatgt	M74495
31534	tgattgtcacatggtatgtgttcag	M74495
31535	tatgaaacactgcctggatggaaag	M74495
31536	acactgcctggatggaaagcagaca	M74495
31537	tggaaagcagacaccacaggcgcca	M74495
31538	caggcccaaagctacgtgcgcttcg	M74495
31539	caaagctacgtgcgcttcgtggaga	M74495
31540	tacgtgcgcttcgtggagaatcaca	M74495
31541	aatcacatgggtgttgcagtcaaat	M74495
31542	atgatccagcttttttagatgccaa	M74495
31543	cattcttcaggcaactttcatcctt	W97507
31544	attcttcaggcaactttcatcctta	W97507
31545	aactttcatccttactatagctatt	W97507
31546	ctttcatccttactatagctatttc	W97507
31547	ttcatccttactatagctatttcta	W97507
31548	tcatccttactatagctatttctag	W97507
31549	atccttactatagctatttctagaa	W97507
31550	tccttactatagctatttctagaag	W97507
31551	ccttactatagctatttctagaagc	W97507
31552	cttactatagctatttctagaagcc	W97507

SEQ ID NO:	sequence	DBAxnID
74089	cagtacccgatgaatgaaggtacaa	AA072636
74090	aagtgctggcactggagctaaaata	AA072636
74091	gagctaaaatatcccatccaagtga	AA072636
74092	agtgccaggagaccatccgccgtga	AA072643
74093	caggagaccatccgccgtgacttag	AA072643
74094	gacttagccctgcaacttcaaggac	AA072643
74095	cttagccctgcaacttcaaggacca	AA072643
74096	agccctgcaacttcaaggaccaagt	AA072643
74097	gccctgcaacttcaaggaccaagtc	AA072643
74098	cctgcaacttcaaggaccaagtcaa	AA072643
74099	ctgcaacttcaaggaccaagtcaaa	AA072643
74100	tgcaacttcaaggaccaagtcaaag	AA072643
74101	cctcggccctggagcctgaacggag	AA072643
74102	gagcctgaacggagcccttccttct	AA072643
74103	tccttctccaacaggccccaagatt	AA072643
74104	ggagaccatccgccgtgacttagcc	AA072643
74105	gagaccatccgccgtgacttagccc	AA072643
74106	agaccatccgccgtgacttagccct	AA072643
74107	catccgccgtgacttagccctgcaa	AA072643
74108	tccgccgtgacttagccctgcaact	AA072643
74109	ccgccgtgacttagccctgcaactt	AA072643
74110	cgccgtgacttagccctgcaacttc	AA072643
74111	ccgtgacttagccctgcaacttcaa	AA072643
74112	gcagcagcagcagcagcaaacctct	D78382
74113	tatttttcctaacatgcagggtcaa	D78382
74114	ttctaaccagcaattccagcctgtt	D78382
74115	taaccagcaattccagcctgttatg	D78382
74116	gcaattccagcctgttatggctaac	D78382
74117	attccagcctgttatggctaactaa	D78382
74118	aaggacacattcaggcttggttaca	D78382
74119	gcatcatttttcatttgccaaccaa	D78382
74120	tttttcatttgccaaccaagcacaa	D78382
74121	tgccaaccaagcacaaagttatttt	D78382
74122	aagttattttctactgactgactgt	D78382
74123	tatactttcagatatggcctcttac	D78382
74124	ttttcctaacatgcagggtcaaggt	D78382
74125	tcagatatggcctcttacagtattt	D78382
74126	taacatgcagggtcaaggtagtagt	D78382
74127	tggaatgttcccaggtgacagcccc	D78382
74128	gtacagcaatgcctttgatgtgttt	D78382
74129	cagcaatgcctttgatgtgtttgcg	D78382
74130	tgcctttgatgtgtttgcggcctac	D78382
74131	tgcggcctacggaggcctcaacgag	D78382
74132	gtattctaaccagcaattccagcct	D78382
74133	aagctctgtgtggaccaagctgaag	AA072822
74134	gctctgtgtggaccaagctgaagaa	AA072822
74135	tccatcagcacgcgttggggacttc	AA072822
74136	catcagcacgcgttggggacttctg	AA072822
74137	gttggcattcaggagcggagtccat	AA072822
74138	ttggcattcaggagcggagtccata	AA072822
74139	attcaggagcggagtccatagggtg	AA072822
74140	ttcaggagcggagtccatagggtgc	AA072822
74141	ggccttcctcatcagtcagttcggg	AA072822
74142	ctcatcagtcagttcgggagagaac	AA072822
74143	catcagtcagttcgggagagaacgg	AA072822
74144	atcagtcagttcgggagagaacggt	AA072822
74145	ctctgtgtggaccaagctgaagaat	AA072822
74146	gagcagtgtaccttcgacttggttt	AA072822
74147	aaggcgcttctccatcagcacgcgt	AA072822
74148	aggcgcttctccatcagcacgcgtt	AA072822
74149	gcgcttctccatcagcacgcgttgg	AA072822
74150	cttctccatcagcacgcgttgggga	AA072822
74151	ttctccatcagcacgcgttggggac	AA072822
74152	ctccatcagcacgcgttggggactt	AA072822
74153	ttcgctgacatcctgcgagactaca	U09351
74154	taccctgacattcccaaagacaaag	U09351
74155	agcgattccacggagccacaatctc	U09351
74156	tccacggagccacaatctccttcag	U09351

SEQ ID NO	sequence	DBAxnID
116693	gatgttggcgccacataactgatcc	W17549
116694	atgttggcgccacataactgatcct	W17549
116695	cagtcctaagcatccactgtgcctt	M73748
116696	gtgccttcagttccgggaagacact	M73748
116697	gagacctcatcctggatgctgagaa	M73748
116698	gctcagccgctgtagaaccaagaac	M73748
116699	tcagaccgaccagtttctaacacct	M73748
116700	tgccttctgcttctcaggacagaca	M73748
116701	ctgcttctcaggacagacagggaaa	M73748
116702	taatcttaactgcttttatggggtg	M73748
116703	gaagatatttccagtcttcgtgaca	M73748
116704	actcagtgttgctgggacagagctg	M73748
116705	gtgttggtacccaatacagtgtaga	M73748
116706	gtacccaatacagtgtagacatctt	M73748
116707	tccaaaccatctctaagcctccgat	M73748
116708	ccatctctaagcctccgatgagttg	M73748
116709	gaggagccacgtcctcatctcccta	M73748
116710	ctccctaggactcaagccctcagat	M73748
116711	aggactcaagccctcagatcagctg	M73748
116712	ctcagatcagctgcatctttctgga	M73748
116713	gcatctttctggataatagagacct	M73748
116714	ataatagagacctcatcctggatgc	M73748
116715	tttgcactggccctgttccaaagtt	M13366
116716	tgtcacagatcagcagcctggagcg	M13366
116717	catcgatcccgactgggctggaacc	M13366
116718	acgcatgactcaattcagagctgtt	M13366
116719	attcagagctgttcctcgggagact	M13366
116720	aacaccttaacctatgtttgctcag	M13366
116721	tatgtttgctcagtcagtcaactgt	M13366
116722	tgctcagtcagtcaactgtgaatct	M13366
116723	gtcagtcaactgtgaatctgaggtc	M13366
116724	tgaggtcttctgtcaggccacttgt	M13366
116725	cttctgtcaggccacttgtctaccc	M13366
116726	tcaggccacttgtctacccaataaa	M13366
116727	tctctctccaccaggggtctccatt	M13366
116728	aggggtctccatttcctgtgtggca	M13366
116729	ctccatttcctgtgtggcagcaact	M13366
116730	ttcctgtgtggcagcaactgggaca	M13366
116731	gctctggccagcttgatattaaact	M13366
116732	ttaaactaacacattaaggtgccag	M13366
116733	taacacattaaggtgccaggcccct	M13366
116734	tctctgctcctagcctttaagaatt	M13366
116735	gaactcaagagcaccccagacagat	W17617
116736	aagagcaccccagacagatcaagtt	W17617
116737	accctgatcttaagaccagatcttt	W17617
116738	ttaagaccagatctttcttacgagg	W17617
116739	agaccagatctttcttacgaggtag	W17617
116740	ccagatctttcttacgaggtagaag	W17617
116741	gatctttcttacgaggtagaagtcg	W17617
116742	gtcgatggccagtccattgagtctg	W17617
116743	gatggccagtccattgagtctggca	W17617
116744	cagtccattgagtctggcagcattg	W17617
116745	attgagtctggcagcattgagtatg	W17617
116746	gactggaacctgacatcgctgagga	W17617
116747	agcaccccagacagatcaagttact	W17617
116748	tcaagttactgttcccttggggcag	W17617
116749	tgcttaggacctgatatttgtggat	W17617
116750	aagccaatcagatgcaaggtggatg	W17617
116751	gatggcttcacgcatctctacaccc	W17617
116752	ttcacgcatctctacaccctgatct	W17617
116753	acgcatctctacaccctgatcttaa	W17617
116754	tacaccctgatcttaagaccagatc	W17617
116755	ggccagcctaagctacaagatatca	M68896
116756	tactctaattcaccaaaggatatgg	M68896
116757	tgccaggatcggggacttgtcctga	M68896
116758	ggacttgtcctgattctgcataagt	M68896
116759	gtcctgattctgcataagtgctcct	M68896
116760	attctgcataagtgctcctttctgt	M68896

TABLE 1

SEQ ID NO	sequence	DBAxnID
31553	gctatttctagaagccctttaacat	W97507
31554	tatttctagaagccctttaacattg	W97507
31555	ttcttcaggcaactttcatccttac	W97507
31556	cttcaggcaactttcatccttacta	W97507
31557	ttcaggcaactttcatccttactat	W97507
31558	tcaggcaactttcatccttactata	W97507
31559	caggcaactttcatccttactatag	W97507
31560	ggcaactttcatccttactatagct	W97507
31561	gcaactttcatccttactatagcta	W97507
31562	caactttcatccttactatagctat	W97507
31563	tggcaagaccgttttcgtggtcttg	U31967
31564	aaatgcccatgcaggttgatatcgt	U31967
31565	ccatccttataacagctacattttc	U31967
31566	atccttataacagctacattttcgg	U31967
31567	ccttataacagctacattttcggct	U31967
31568	ttaagtttttactccattatgcaca	U31967
31569	aagtttttactccattatgcacagt	U31967
31570	gtttttactccattatgcacagttt	U31967
31571	ttttactccattatgcacagtttga	U31967
31572	ttactccattatgcacagtttgaga	U31967
31573	actccattatgcacagtttgagata	U31967
31574	tccattatgcacagtttgagataaa	U31967
31575	atgcccatgcaggttgatatcgttg	U31967
31576	ttaaaagattcggctctcttattgg	U31967
31577	aagattcggctctcttattggaatc	U31967
31578	tgaactaataccatccttataacag	U31967
31579	aactaataccatccttataacagct	U31967
31580	ctaataccatccttataacagctac	U31967
31581	aataccatccttataacagctacat	U31967
31582	taccatccttataacagctacattt	U31967
31583	cgcttctaccagcgttttccagaag	AA008255
31584	attcaacagcagattgttcgagaga	AA008255
31585	aacatctgtaacttcttagaaggtg	AA008255
31586	agtttgattggtggctctgactaca	AA008255
31587	ttgattggtggctctgactacaaac	AA008255
31588	ggtggctctgactacaaactgattt	AA008255
31589	ggctctgactacaaactgatttacc	AA008255
31590	tctgactacaaactgatttaccggc	AA008255
31591	gactacaaactgatttaccggcact	AA008255
31592	aaactgatttaccggcactatgcca	AA008255
31593	ctgatttaccggcactatgccaccc	AA008255
31594	gggatcttggacctcatccaggttt	AA008255
31595	cgagagactttccatctggtcctca	AA008255
31596	atcttggacctcatccaggttttg	AA008255
31597	gagactttccatctggtcctcaagc	AA008255
31598	actttccatctggtcctcaagcgag	AA008255
31599	catctggtcctcaagcgagatgaca	AA008255
31600	ctggtcctcaagcgagatgacaaca	AA008255
31601	gtcctcaagcgagatgacaacatct	AA008255
31602	gatgacaacatctgtaacttcttag	AA008255
31603	gacaacatctgtaacttcttagaag	AA008255
31604	ccaagagtcaagtccttcaaggaga	U36475
31605	gtcaagtccttcaaggagatggctt	U36475
31606	cccatagcttatgagcagtgtatct	U36475
31607	agcagctctaagtaacccattcttc	U36475
31608	atacacggactctgatatgaatatt	U36475
31609	ttcatgtctgtacaatgatggattc	U36475
31610	tggattccaccaggaaaggagttgt	U36475
31611	tgctccctgttgctgaggcatacta	U36475
31612	ctgaggcatactacttcataaataa	U36475
31613	attttgcttgctgaaggaagagaac	U36475
31614	tttcatgaactcataatcttggact	U36475
31615	gaactcataatcttggactgtttat	U36475
31616	tccttcaaggagatggcttgagatc	U36475
31617	ttaaaatcagtgctcctcaaggctc	U36475
31618	ctcctcaaggctccaggtttagtag	U36475
31619	aaggctccaggtttagtagccagca	U36475
31620	ttagtagccagcaccaaacaacacc	U36475
74157	ctccccatgtctccaagtgcatatg	U09351
74158	atgtctccaagtgcatatgctgtgc	U09351
74159	ctgagcccaacgacaattgaaactg	U09351
74160	gcaatgaattccccatattctgctg	U09351
74161	aattccccatattctgctgaatgac	U09351
74162	ccatattctgctgaatgacggtgca	U09351
74163	gttctttaccatagatcacaattta	U09351
74164	ggaagctctcttctcacttggtgcc	U09351
74165	gacattcccaaagacaaagcctttg	U09351
74166	gcctttggcaaacactacagctccc	U09351
74167	ggcaaacactacagctcccagccgt	U09351
74168	agctcccagccgtgcgaagtctcaa	U09351
74169	cagccgtgcgaagtctcaagaccaa	U09351
74170	cccatttcaacaatccgaagcgatt	U09351
74171	tcaacaatccgaagcgattccacgg	U09351
74172	atccgaagcgattccacggagccac	U09351
74173	aggtgaacttgcttatccagcaggc	U43678
74174	acttgcttatccagcaggccatgga	U43678
74175	tcttctgttagaggtaatggtcact	U43678
74176	ggtcactcaagatccattcgtagga	U43678
74177	tcaagatccattcgtaggatacgtg	U43678
74178	atacgtgctgactcttaggtcatgc	U43678
74179	gtcatgcttgtgctactgcagcaag	U43678
74180	ctactgcagcaagaccgccgcatac	U43678
74181	cagcaagaccgccgcatacacactg	U43678
74182	gaccgccgcatacacactgaactgc	U43678
74183	cgcatacacactgaactgcaaatgg	U43678
74184	gctttactgctggtgtacatgaaga	U43678
74185	agcaggccatggatcccaaaaatct	U43678
74186	ccatggatcccaaaaatctcagccg	U43678
74187	taaactcgaacttcagaaatgacat	U43678
74188	ccaccatatttggacaggaattact	U43678
74189	caattttctacttgactgatcacca	U43678
74190	tctacttgactgatcaccacctaaa	U43678
74191	gtatttctactctcttctgttagag	U43678
74192	ctactctcttctgttagaggtaatg	U43678
74193	actggatactgctcccaatggacgc	AA072842
74194	tactgctcccaatggacgctatggg	AA072842
74195	gcatcggttctcctatgagaagcat	AA072842
74196	tcggttctcctatgagaagcattgg	AA072842
74197	ttgggcttcactatcacacggtgat	AA072842
74198	ggcttcactatcacacggtgatctc	AA072842
74199	ttcactatcacacggtgatctcagg	AA072842
74200	acacggtgatctcaggtgtccatgg	AA072842
74201	cggtgatctcaggtgtccatggcta	AA072842
74202	tctcaggtgtccatggctatgatct	AA072842
74203	gtgtccatggctatgatctttaatc	AA072842
74204	gctatgatctttaatcccaacagtt	AA072842
74205	tgctcccaatggacgctatgggatt	AA072842
74206	ttcaagaacagcaatcctcagttta	AA072842
74207	tggacgctatgggattgggtatttg	AA072842
74208	agacatgccagatatgccagagtct	AA072842
74209	gccagatatgccagagtctgacttg	AA072842
74210	tatgccagagtctgacttgtagctg	AA072842
74211	agagtctgacttgtagctgaacgaa	AA072842
74212	gtctgacttgtagctgaacgaaagc	AA072842
74213	ttttatcagtgagcatcggttctcc	AA072842
74214	aatcttttacacagaaaggcaatct	AA072856
74215	atcttttacacagaaaggcaatctt	AA072856
74216	cacccagaaagacattcttagaaga	AA072856
74217	gacaaatgtttcactcagaaaggcg	AA072856
74218	caaatgtttcactcagaaaggcgac	AA072856
74219	aatgtttcactcagaaaggcgacct	AA072856
74220	atgtttcactcagaaaggcgacctt	AA072856
74221	tgtttcactcagaaaggcgacctta	AA072856
74222	gtttcactcagaaaggcgaccttag	AA072856
74223	tttcactcagaaaggcgaccttaga	AA072856
74224	ttcactcagaaaggcgaccttagaa	AA072856
116761	tgtgatcttcacggggtcagctagt	M68896
116762	cttcacggggtcagctagtgcttat	M68896
116763	gggatgcctttcatcatcgaagagt	M68896
116764	cctttcatcatcgaagagtaggacc	M68896
116765	ggattcttcaacttcagaactagac	M68896
116766	ttcaacttcagaactagacatatta	M68896
116767	aattcaccaaaggatatggggatag	M68896
116768	cagacaatctagtttgctcctctga	M68896
116769	atctagtttgctcctctgaaactgt	M68896
116770	tttgctcctctgaaactgtgtgtct	M68896
116771	tgccttgtcagttcctgaggtcttt	M68896
116772	ttaattcggtcttcatctctgtctc	M68896
116773	gcatctccctgatgccaggatcggg	M68896
116774	ccctgatgccaggatcggggacttg	M68896
116775	tcctgtgctcctaagtcaacctagt	W17644
116776	cctgtgctcctaagtcaacctagtg	W17644
116777	ttttccacatctccatttgggtgtt	W17644
116778	cacatctccatttgggtgttagcgc	W17644
116779	acatctccatttgggtgttagcgca	W17644
116780	catctccatttgggtgttagcgcaa	W17644
116781	atctccatttgggtgttagcgcaag	W17644
116782	tctccatttgggtgttagcgcaaga	W17644
116783	ctccatttgggtgttagcgcaagat	W17644
116784	tccatttgggtgttagcgcaagatt	W17644
116785	catttgggtgttagcgcaagatttc	W17644
116786	gatttcagctagttggctgagattg	W17644
116787	ctgtgctcctaagtcaacctagtgt	W17644
116788	atttcagctagttggctgagattgg	W17644
116789	tgtgctcctaagtcaacctagtgtt	W17644
116790	gtgctcctaagtcaacctagtgttt	W17644
116791	tgctcctaagtcaacctagtgtttt	W17644
116792	taagtcaacctagtgttttccacat	W17644
116793	agtcaacctagtgttttccacatct	W17644
116794	gtcaacctagtgttttccacatctc	W17644
116795	tcaacctagtgttttccacatctcc	W17644
116796	gtggctacactgcagtctagacact	J03535
116797	acactgcagtctagacactaagata	J03535
116798	ttcagaggccagatccacgttgtca	J03535
116799	ggccagatccacgttgtcacagtac	J03535
116800	cgctcgctacctgcatgcctttgtg	J03535
116801	ctttgtggctcatggtttctgggtg	J03535
116802	ggctcatggtttctgggtgccttta	J03535
116803	ggctaaaatgcactcttagtgtttt	J03535
116804	aatgcactcttagtgttttccaata	J03535
116805	cactatctttatgttgctgcgaatg	J03535
116806	ctttatgttgctgcgaatgccttag	J03535
116807	gacttaacttcaaaattgtatctga	J03535
116808	aaatgcttgtgccatggccactaca	J03535
116809	cactacattaccacagcttctcatc	J03535
116810	attaccacagcttctcatcttcagt	J03535
116811	acagcttctcatcttcagtgcactc	J03535
116812	tctcatcttcagtgcactcatttct	J03535
116813	tgctctttctatcccaagccgaaga	J03535
116814	acttcaatagtcttcagaggccaga	J03535
116815	atagtcttcagaggccagatccacg	J03535
116816	gcagctaactccaagtcagctgatg	L07107
116817	gctaactccaagtcagctgatgggt	L07107
116818	tattcagcttgctaaagatgatagg	L07107
116819	aagtgatctcatccgtcgaagtgtg	L07107
116820	tgatctcatccgtcgaagtgtgaaa	L07107
116821	tctcatccgtcgaagtgtgaaacga	L07107
116822	gaaacgatccggagacatctctgag	L07107
116823	acgatccggagacatctctgagcat	L07107
116824	atccggagacatctctgagcattaa	L07107
116825	cggagacatctctgagcattaagat	L07107
116826	agacatctctgagcattaagatgga	L07107
116827	catctctgagcattaagatggaaga	L07107
116828	tccaagtcagctgatgggtatggag	L07107

TABLE 1

SEQ ID NO	sequence	DBAxnID
31621	caacacccagaatagggtttgtgca	U36475
31622	aaattcagagccagattatgtattt	U36475
31623	gccttctaattccccatagcttatg	U36475
31624	ttcgcctttgaggtgactgaagatt	U06119
31625	ggcgtctactccagtaaatcctgtc	U06119
31626	atgccaccctggagaaaattgtgtg	U06119
31627	ggaaatccacccagaggccctctca	U06119
31628	actcctgagtctagacgcctaaaga	U06119
31629	gagtctagacgcctaaagacaggaa	U06119
31630	cacgtgacatcatcaccagaatacg	U06119
31631	acatcatcaccagaatacgcttgga	U06119
31632	tcaccagaatacgcttggattgtgg	U06119
31633	cccacgtggacctagaatcgtctct	U06119
31634	tcttcatgtactgggagctgtaatg	U06119
31635	tgtactgggagctgtaatggttacc	U06119
31636	tactccagtaaatcctgtcataaaa	U06119
31637	tcaataaacacacagtaaatacctc	U06119
31638	tcctgtcataaaactccagataaag	U06119
31639	ggattactctactggattgtgaaaa	U06119
31640	ttcctcattgaacgtgggaagaaca	U06119
31641	cccattcctcaggtataagccacgg	U06119
31642	gtataagccacggctgcacgggcaa	U06119
31643	actggtccttcgatgagaatgccac	U06119
31644	atgagaatgccaccctggagaaaat	U06119
31645	tgggtcagctggactggtatgcctg	U39200
31646	actggtatgcctggatcccaaatgg	U39200
31647	gcctggacctgccctatgagtacct	U39200
31648	ctgtctctgtgtgtgtgcacagtct	U39200
31649	caccacacagccctggggaatgcac	U39200
31650	acagccctggggaatgcacagcgat	U39200
31651	aatgcacagcgattatccctgttgt	U39200
31652	cagcgattatccctgttgtgtttta	U39200
31653	tgttttagctgccccaactctatga	U39200
31654	agctgccccaactctatgatatgtg	U39200
31655	cccaactctatgatatgtgcttgtt	U39200
31656	ttgaatccctagtacccacttctct	U39200
31657	atgcctggatcccaaatggcccatg	U39200
31658	caaatggcccatgcaccatgcggaa	U39200
31659	cacccatctccaaggatgtgacaga	U39200
31660	tggactcgttgccttgccttcagca	U39200
31661	cttgccttcagcaggcacggatgca	U39200
31662	agataacagtcaccaagttccttgg	U39200
31663	aattccaggaggagctggctatcat	U39200
31664	atgcaagcctggacctgccctatga	U39200
31665	atactgcagaccctgttcactcagt	W97725
31666	tactttcagagcatgattgacttat	W97725
31667	gaagttcttcagcagtttaatgagc	W97725
31668	gttcttcagcagtttaatgagcctt	W97725
31669	tttaatgagccttgagcacaaacgc	W97725
31670	gagccttgagcacaaacgcggtgct	W97725
31671	ccttgagcacaaacgcggtgctggg	W97725
31672	gcacaaacgcggtgctggggctaag	W97725
31673	caaacgcggtgctggggctaagtga	W97725
31674	gtgacatgtgccagtgcgatgctgc	W97725
31675	acatgtgccagtgcgatgctgccca	W97725
31676	gccagtgcgatgctgcccagccgag	W97725
31677	gaaggccaagacctcatagattcag	W97725
31678	tgacaagacacacgagcatgtgaca	W97725
31679	caagacacacgagcatgtgacaccc	W97725
31680	tgtgacacccccttgtcaggtcatca	W97725
31681	gacacccccttgtcaggtcatcagga	W97725
31682	acccccttgtcaggtcatcaggaact	W97725
31683	ccttgtcaggtcatcaggaactagt	W97725
31684	gtcatcaggaactagtctggtgaag	W97725
31685	ttcagttctcagcacagacatctgt	L07063
31686	tctcagcacagacatctgtgttttt	L07063
31687	agctctgcaggggcatgaatctgag	L07063
31688	ctgcctcagctctgctcctcaggaa	L07063

SEQ ID NO:	sequence	DBAxnID
74225	cactcagaaaggcgaccttagaaga	AA072856
74226	tcttttacacagaaaggcaatctta	AA072856
74227	caaatgtttcacccagaaagacatt	AA072856
74228	aatgtttcacccagaaagacattct	AA072856
74229	atgtttcacccagaaagacattctt	AA072856
74230	tgtttcacccagaaagacattctta	AA072856
74231	gtttcacccagaaagacattcttag	AA072856
74232	tttcacccagaaagacattcttaga	AA072856
74233	ttcacccagaaagacattcttagaa	AA072856
74234	cattgctattcagttcacttggatc	U44088
74235	tattcagttcacttggatcaaaacc	U44088
74236	attttgcgtcgagatgactttattt	U44088
74237	atgcctaatctaagacatttctgaa	U44088
74238	cctaatctaagacatttctgaatgt	U44088
74239	agtattcccaggacattctcataaa	U44088
74240	attcccaggacattctcataaagtc	U44088
74241	cccaggacattctcataaagtcgac	U44088
74242	acattctcataaagtcgactctttc	U44088
74243	ttctcataaagtcgactctttcatt	U44088
74244	taaagtcgactctttcattgtattt	U44088
74245	agtcgactctttcattgtatttgaa	U44088
74246	tcagttcacttggatcaaaaccaac	U44088
74247	ccgcgcctgatcaagtagtttggac	U44088
74248	acggataacgcgcgcttgcagttcc	U44088
74249	gataacgcgcgcttgcagttccctc	U44088
74250	gcgcgcttgcagttccctcgtagtt	U44088
74251	cctcgtagttttctgcataatgttc	U44088
74252	tttctgcataatgttcatcacagtt	U44088
74253	gttcatcacagttgcaggaagcaga	U44088
74254	ttctcccaagtaggtccaggaagtg	D83033
74255	ctgaaaaccatgcctgaaagacatt	D83033
74256	atggcaaatcactgcaagagcacac	D83033
74257	gcaaatcactgcaagagcacacgtc	D83033
74258	aatcactgcaagagcacacgtcata	D83033
74259	tgcaagagcacacgtcataaacaaa	D83033
74260	agaagctctaggtgatggaggaaag	D83033
74261	catttagggtccagttgatttgtgt	D83033
74262	ttctgattgcccttgatgtagagaa	D83033
74263	tgattgcccttgatgtagagaaact	D83033
74264	atatcaaatcatcaggcatggataa	D83033
74265	tcaaatcatcaggcatggataatac	D83033
74266	accatgcctgaaagacatttggcag	D83033
74267	caagactcttctgtaggcaaatcaa	D83033
74268	gactcttctgtaggcaaatcaatga	D83033
74269	aaatcaatgacatctgatgtccctg	D83033
74270	tctgatgtccctggagatttggact	D83033
74271	ttggactttcttgttccgaaggctg	D83033
74272	tgctccctcttctactcaggtgaaa	D83033
74273	ctcttctactcaggtgaaaaagcaa	D83033
74274	tgaatctagagccttggctgaaatc	AA072911
74275	atctagagccttggctgaaatcgcc	AA072911
74276	cacacacgctgcagccctgtctgtt	AA072911
74277	acacgctgcagccctgtctgttcga	AA072911
74278	tgcagccctgtctgttcgaaatctc	AA072911
74279	agccctgtctgttcgaaatctctct	AA072911
74280	cctgtctgttcgaaatctctctcct	AA072911
74281	gtctgttcgaaatctctctccttat	AA072911
74282	tgttcgaaatctctctccttatgtt	AA072911
74283	tcgaaatctctctccttatgtttcc	AA072911
74284	tctctctccttatgtttccaacgaa	AA072911
74285	tagccagtttggtcctattgaaagg	AA072911
74286	tgaaatcgccaaagctgagcttgat	AA072911
74287	aatcgccaaagctgagcttgatgat	AA072911
74288	cgccaaagctgagcttgatgatact	AA072911
74289	tgatgatactcccatgagaggtaga	AA072911
74290	tactcccatgagaggtagacagctt	AA072911
74291	ggttcgatttgccacacacgctgca	AA072911
74292	tcgatttgccacacacgctgcagcc	AA072911

SEQ ID NO:	sequence	DBAxnID
116829	aagtcagctgatgggtatggagaag	L07107
116830	accaaaaagacctcgttcagcatat	L07107
116831	aagacctcgttcagcatataacatt	L07107
116832	acctcgttcagcatataacatttat	L07107
116833	tgtatctgaaagcttccaggaggca	L07107
116834	ggatgattcggctcagggaaaattg	L07107
116835	tgattcggctcagggaaaattgaag	L07107
116836	acgattgactcgacaacatatcatg	L17305
116837	gactcgacaacatatcatgagacat	L17305
116838	ttcaccagaagaacgtggtagtaat	L17305
116839	taatgccaggccaatgaaaacgctc	L17305
116840	aatgaaaacgctcaactggcaatca	L17305
116841	aacgctcaactggcaatcaccacga	L17305
116842	caactggcaatcaccacgaaaagtc	L17305
116843	gcaatcaccacgaaaagtctttcag	L17305
116844	gaaacatgcggtgttcggatgattc	L17305
116845	atgattcttgcaatctaccatttaa	L17305
116846	gttaatctctttggaagcgtcaaga	L17305
116847	ctctttggaagcgtcaagaatcttg	L17305
116848	agtgacaccagctattattaggttt	L17305
116849	atcaattacagttgatcacggtcga	L17305
116850	tgatcacggtcgagagtttgcaaaa	L17305
116851	acagctaggcataccgatgtatttt	L17305
116852	aggcataccgatgtattttgcacac	L17305
116853	gtattttgcacacccatattcacca	L17305
116854	tgcacacccatattcaccagaagaa	L17305
116855	cccatattcaccagaagaacgtggt	L17305
116856	agcctttctaaaacatctcaacagt	AA033095
116857	acatctcaacagtgagcatgcgctg	AA033095
116858	ccacctgcatgtgaagtctacagaa	AA033095
116859	gaagtctacagaacccaaagctgcc	AA033095
116860	tcagcccctgaatctggtatcaagt	AA033095
116861	gcccctgaatctggtatcaagtgtc	AA033095
116862	ctccaagtctgcctcagaggcttct	AA033095
116863	caagtctgcctcagaggcttctcca	AA033095
116864	ctcagaggcttctccacagagctta	AA033095
116865	agaggcttctccacagagcttacct	AA033095
116866	ggcttctccacagagcttacctcat	AA033095
116867	tccacagagcttacctcatactcca	AA033095
116868	caacagtgagcatgcgctggacgat	AA033095
116869	aagcacagctcaatgtagagtacaa	AA033095
116870	gctacagcttgcaaaagacaaagag	AA033095
116871	agacaaagagcgcctgcaagccatg	AA033095
116872	agagcgcctgcaagccatgatgacc	AA033095
116873	gcgcctgcaagccatgatgacccac	AA033095
116874	cctgcaagccatgatgacccacctg	AA033095
116875	catgatgacccacctgcatgtgaag	AA033095
116876	aagtcaagcattatctcattttgcc	M94450
116877	atctcattttgccaagtgaagatga	M94450
116878	tggccctctgaggccgcacaagcta	M94450
116879	gccgcacaagctactgcagccatgg	M94450
116880	caagctactgcagccatgggtttgc	M94450
116881	acccttctgtcctgtggactcggtg	M94450
116882	gactcctgtccccaagggaggcatt	M94450
116883	cctgtccccttggtagagctcctga	M94450
116884	cccttggtagagctcctgaggtact	M94450
116885	ctcctgaggtactgttccagtgagg	M94450
116886	cataatctgtacagactgagaggcc	M94450
116887	atctgctctgttttataccagtaac	M94450
116888	gcctttacttcagcatggatgaggg	M94450
116889	acttcagcatggatgagggccagac	M94450
116890	cccgtttcacagacctgctgcagct	M94450
116891	acctgctgcagctggtagaattcca	M94450
116892	aattccaccagctgaaccgaggcat	M94450
116893	accagctgaaccgaggcatcctgcc	M94450
116894	tgaaccgaggcatcctgccctgcct	M94450
116895	gccactgctgtgcccgtgtggccct	M94450
116896	tataggctgggctggagcggaaata	W17745

TABLE 1

SEQ ID NO	sequence	DBAxnID
31689	cctcagctctgctcctcaggaaggg	L07063
31690	gtcaggtctctcatcttaagaagtt	L07063
31691	tctctcatcttaagaagttccctct	L07063
31692	gcctgctcaggcccaagggtttcga	L07063
31693	tgctcaggcccaagggtttcgagaa	L07063
31694	tcgagaacctgcacttggtgctaat	L07063
31695	agaacctgcacttggtgctaatctg	L07063
31696	gctaaactgatccagtcctttctcc	L07063
31697	agacatctgtgtttttctcgtccaa	L07063
31698	ctcttccttaaggttcttgtgacag	L07063
31699	ttccttaaggttcttgtgacagatc	L07063
31700	gttcttgtgacagatccagttcagg	L07063
31701	cgtcactaggcacggcaagggtgag	L07063
31702	gtgccctttatttgtactgtcctgt	L07063
31703	tgtactgtcctgtcccatctccctg	L07063
31704	cccctctgtcatggcagctctgcag	L07063
31705	ctctccttgcaggagcggccgagtt	W97564
31706	ctccttgcaggagcggccgagttca	W97564
31707	tgtgctggacacacgttttaggaag	W97564
31708	gtgctggacacacgttttaggaagt	W97564
31709	tgctggacacacgttttaggaagtt	W97564
31710	gttttgcgatcaacggtcggtggct	W97564
31711	ttttgcgatcaacggtcggtggctg	W97564
31712	ttgcgatcaacggtcggtggctgtg	W97564
31713	agagattgaccctgtcaggtgtgaa	W97564
31714	agattgaccctgtcaggtgtgaaag	W97564
31715	gattgaccctgtcaggtgtgaaagt	W97564
31716	attgaccctgtcaggtgtgaaagtt	W97564
31717	tccttgcaggagcggccgagttcag	W97564
31718	ccttgcaggagcggccgagttcaga	W97564
31719	cttgcaggagcggccgagttcagag	W97564
31720	tgcaggagcggccgagttcagagtc	W97564
31721	agtcatgtgctggacacacgtttta	W97564
31722	gtcatgtgctggacacacgttttag	W97564
31723	tcatgtgctggacacacgttttagg	W97564
31724	catgtgctggacacacgttttagga	W97564
31725	ctgcgcttttctcctgagaatatga	D50834
31726	cggcatccctttgccttcatgcctt	D50834
31727	ttgcgctccaaaaatggcatccacc	D50834
31728	tccaaaaatggcatccacctctacc	D50834
31729	aatggcatccacctctacctgaagc	D50834
31730	atccacctctacctgaagccactgg	D50834
31731	attcaatgcctgggctttcaaactc	D50834
31732	ggctttcaaactcattccttcactc	D50834
31733	ttcactccacaaatatttgctgaat	D50834
31734	tgtttccctgtcttgagaaacttca	D50834
31735	aacttcatttatttctcataactgc	D50834
31736	tttagccatctcagtgtgcatttttg	D50834
31737	gccttcatgccttttttctgcagggc	D50834
31738	aaggtggtcacagccctctgtttgc	D50834
31739	gtcacagccctctgtttgctgcgct	D50834
31740	gccctctgtttgctgcgctttgaat	D50834
31741	tttgaattctctccagatccctcaa	D50834
31742	ttctctccagatccctcaaagatcc	D50834
31743	ccagatccctcaaagatccccatta	D50834
31744	ccccagctgatcttgcgctccaaaa	D50834
31745	tccaggtggccgagacggtgacaga	L05670
31746	tggccgagacggtgacagagcagta	L05670
31747	tgcagacccctagagaactccacat	L05670
31748	ctagagaactccacatgtctccagg	L05670
31749	gagaactccacatgtctccaggcga	L05670
31750	acatgtctccaggcgagtaggcctc	L05670
31751	tgtctccaggcgagtaggcctcacc	L05670
31752	ctctggattctgtacactaatgcct	L05670
31753	attctgtacactaatgcctgcactt	L05670
31754	tgcacttgctgctctcgggaagaac	L05670
31755	tgctgctctcgggaagaactgattc	L05670
31756	taatccaataaaagccgccttgcga	L05670
74293	atttgccacacacgctgcagccctg	AA072911
74294	caaatgctgggcgtacactggacaa	L57509
74295	gtacactggacaaggcccactggac	L57509
74296	catgctgcagctagaacttcgcaaa	L57509
74297	gcagctagaacttcgcaaagcctct	L57509
74298	agaacttcgcaaagcctctatgttt	L57509
74299	tcgcaaagcctctatgtttctgtgg	L57509
74300	agcctctatgtttctgtggagtaaa	L57509
74301	ctattgtagctaccacattggtttt	L57509
74302	tataatcacgcggggtttgtacatt	L57509
74303	tttttacactaatatatggacctag	L57509
74304	tatatggacctagcttaaggcgatt	L57509
74305	gattttaatcccctgtcctaggcag	L57509
74306	tggacaaggcccactggacttcact	L57509
74307	actggacttcactggttcctgggag	L57509
74308	ctttcttcttgtcacacactggacg	L57509
74309	cctgacacactgacctgggcgatcc	L57509
74310	acactgacctgggcgatccctgccg	L57509
74311	gcgatccctgccgtgatcctcagtc	L57509
74312	cttctcacctgccatgctgcagcta	L57509
74313	acctgccatgctgcagctagaactt	L57509
74314	ttactgcctccattaaatccattta	U44426
74315	ccgaaagctgcgaggcgttactatg	U44426
74316	tgagtcaaagcttcccagtggctct	U44426
74317	aaagcttcccagtggctctgctaag	U44426
74318	tggctctgctaagcccctctgttaa	U44426
74319	atgtttatggcctatgaggttgtat	U44426
74320	tccatgccaaatgttaactgccaag	U44426
74321	ctaaagccttttttcagagcatggct	U44426
74322	ccttttttcagagcatggctagattt	U44426
74323	aagccacagtgtcggttgtcacaaa	U44426
74324	aatgacatgctgccattcctggttg	U44426
74325	ctggttgctgctcggatgcaatgga	U44426
74326	tactatgactgagctgatcaggcag	U44426
74327	gctgatcaggcagtttctgttctca	U44426
74328	ttagtgcctgagctgttctgtatgt	U44426
74329	cctgagctgttctgtatgtagaaat	U44426
74330	tcgttcccactctaagaactgtcgg	U44426
74331	ccactctaagaactgtcggggctgt	U44426
74332	taagaactgtcggggctgtgagtca	U44426
74333	ctgtcggggctgtgagtcaaagctt	U44426
74334	ctcctgctgctgcggttcagctcaa	AA072961
74335	cctgctgctgcggttcagctcaact	AA072961
74336	tagagttcacttcatgcaatgaaac	AA072961
74337	gttcacttcatgcaatgaaactgtg	AA072961
74338	tcacttcatgcaatgaaactgtggt	AA072961
74339	ggtcatcccttgcatcgtccgtaat	AA072961
74340	tcatcccttgcatcgtccgtaatgt	AA072961
74341	atcccttgcatcgtccgtaatgtgg	AA072961
74342	cttgcatcgtccgtaatgtggaggc	AA072961
74343	tgcatcgtccgtaatgtggaggcgc	AA072961
74344	catcgtccgtaatgtggaggcgcaa	AA072961
74345	tcgtccgtaatgtggaggcgcaaag	AA072961
74346	ctgctgcggttcagctcaactactg	AA072961
74347	gctgcggttcagctcaactactgtt	AA072961
74348	cggttcagctcaactactgtttagt	AA072961
74349	gtttagtaacgtcaactccatagag	AA072961
74350	ttagtaacgtcaactccatagagtt	AA072961
74351	caactccatagagttcacttcatgc	AA072961
74352	actccatagagttcacttcatgcaa	AA072961
74353	catagagttcacttcatgcaatgaa	AA072961
74354	gatccagatgtgctcaaccagagga	U49641
74355	gatgtgctcaaccagaggaagaccg	U49641
74356	ccactgtctgctggaaacttccaga	U49641
74357	agttcccacaagatacatttctaat	U49641
74358	tttttccacatccttggatatgct	U49641
74359	ccacatccttggatatgcttttcag	U49641
74360	ccttggatatgcttttcagggacgc	U49641
116897	cacaggcccattcagtccacacaaa	W17745
116898	attcagtccacacaaagaagcttag	W17745
116899	ttcagtccacacaaagaagcttagt	W17745
116900	tcagtccacacaaagaagcttagta	W17745
116901	cagtccacacaaagaagcttagtat	W17745
116902	agtccacacaaagaagcttagtatt	W17745
116903	gtccacacaaagaagcttagtattt	W17745
116904	tccacacaaagaagcttagtatttt	W17745
116905	acaggcccattcagtccacacaaag	W17745
116906	caggcccattcagtccacacaaaga	W17745
116907	aggcccattcagtccacacaaagaa	W17745
116908	ggcccattcagtccacacaaagaag	W17745
116909	gcccattcagtccacacaaagaagc	W17745
116910	cccattcagtccacacaaagaagct	W17745
116911	ccattcagtccacacaaagaagctt	W17745
116912	cattcagtccacacaaagaagctta	W17745
116913	ctatgtttaagcctactacaagtgt	M88242
116914	ttttatgattacctctctgaactat	M88242
116915	catagatccaatattgactgaccca	M88242
116916	tccaatattgactgacccaagcatg	M88242
116917	atattgactgacccaagcatgttat	M88242
116918	attgactgacccaagcatgttataa	M88242
116919	tgactgacccaagcatgttataaag	M88242
116920	actgacccaagcatgttataaagac	M88242
116921	tgacccaagcatgttataaagactg	M88242
116922	aatatatccaaagcactataggcat	M88242
116923	tatccaaagcactataggcattaga	M88242
116924	tccaaagcactataggcattagaat	M88242
116925	ttatgattacctctctgaactatgg	M88242
116926	atgattacctctctgaactatggtg	M88242
116927	gattacctctctgaactatggtgtg	M88242
116928	ttacctctctgaactatggtgtgaa	M88242
116929	acctctctgaactatggtgtgaaca	M88242
116930	ctctctgaactatggtgtgaacaat	M88242
116931	tttacgcataaagcagactgcatag	M88242
116932	actgcatagatccaatattgactga	M88242
116933	atgagactcccaggagttactcgct	W17764
116934	gagactcccaggagttactcgctga	W17764
116935	tctcctccatctaaggtcccagtga	W17764
116936	tcctccatctaaggtcccagtgatc	W17764
116937	ctccatctaaggtcccagtgatctc	W17764
116938	ccatctaaggtcccagtgatctctg	W17764
116939	ttaagctgcatacgaacacttctgc	W17764
116940	aagctgcatacgaacacttctgctt	W17764
116941	gctgcatacgaacacttctgcttgt	W17764
116942	tgcatacgaacacttctgcttgtgt	W17764
116943	catacgaacacttctgcttgtgtta	W17764
116944	cacttctgcttgtgttaggaagcta	W17764
116945	ctcccaggagttactcgctgaggtc	W17764
116946	cccaggagttactcgctgaggtctg	W17764
116947	tcgctgaggtctgtggatttgtaat	W17764
116948	atttgtaatgtctttctcctccatc	W17764
116949	ttgtaatgtctttctcctccatcta	W17764
116950	gtaatgtctttctcctccatctaag	W17764
116951	aatgtctttctcctccatctaaggt	W17764
116952	tctttctcctccatctaaggtccca	W17764
116953	cagccacaaatgccttcatggccag	W17770
116954	caaatgccttcatggccagtgactt	W17770
116955	gaatcttgccaccatcgatggccgt	W17770
116956	tggccgtgcacagttgttaagcttg	W17770
116957	gcctcgcactccatcaggtccaaat	W17770
116958	atcaggtccaaatgcattctcactg	W17770
116959	tccaaatgcattctcactgaggtca	W17770
116960	tgcattctcactgaggtcaagttct	W17770
116961	aagttctaccagctgtgctcctaca	W17770
116962	taccagctgtgctcctacagtgatg	W17770
116963	ctgtgctcctacagtgatgagtcct	W17770
116964	gagtccttccctagtgagatcagac	W17770

TABLE 1

SEQ ID NO	sequence	DBAxnID
31757	agctggctaacctcacacagggcga	L05670
31758	tcacacagggcgaagacaagtacta	L05670
31759	attcctctgactcagaggtcccctc	L05670
31760	agctgtttgactctgaccccatcac	L05670
31761	ctgaccccatcacagtggtgttacc	L05670
31762	acacagtggcggagaaggcgctaca	L05670
31763	gaagcatcaccttcctatatgtagg	L05670
31764	gcatcaccttcctatatgtaggagt	L05670
31765	agatgaccagttcatcatccttgca	D28117
31766	ccagttcatcatccttgcatgcgat	D28117
31767	cttagtccacgtgatgcgcacgtta	D28117
31768	ccacgtgatgcgcacgttagccagt	D28117
31769	aaatgacgacactgattctgcgtca	D28117
31770	cgacactgattctgcgtcaaccgat	D28117
31771	tgattctgcgtcaaccgatgatatg	D28117
31772	gtggtaaagccgctcacccagccgt	D28117
31773	cagctcatccttgccgagcctttac	D28117
31774	atccttgccgagcctttaccatcca	D28117
31775	atcaccgacttcacaggagggtctg	D28117
31776	gacttcacaggagggtctgacacgg	D28117
31777	catcatccttgcatgcgatggcatc	D28117
31778	atgcgatggcatctgggacgtcatg	D28117
31779	tggcatctgggacgtcatggggaac	D28117
31780	cgaagagctctgtgactttgtgaga	D28117
31781	agtcactgatgaccttgagaaagtt	D28117
31782	agtcgacacctgcttgtataaggga	D28117
31783	tgcacccaaagtctcggcagaggcg	D28117
31784	ccctgacttagtccacgtgatgcgc	D28117
31785	caggcagctctgtgttctggattgc	W97817
31786	gcagctctgtgttctggattgcacc	W97817
31787	cagtggacttcacttggcaggaatg	W97817
31788	acttcacttggcaggaatggcagga	W97817
31789	tcacttggcaggaatggcaggagct	W97817
31790	agctggatgctgctcagaggaccct	W97817
31791	tggatgctgctcagaggaccctcta	W97817
31792	actatagcagcctggtacccccttg	W97817
31793	atagcagcctggtacccccttgcag	W97817
31794	gcagcctggtacccccttgcagaag	W97817
31795	catcacaactgggcttattgatggt	W97817
31796	cacaactgggcttattgatggttta	W97817
31797	tgttctggattgcacctagtgtctg	W97817
31798	ggattgcacctagtgtctgtcgccg	W97817
31799	cacctagtgtctgtcgccgtgtgac	W97817
31800	tctgtcgccgtgtgactcgctggta	W97817
31801	gtcgccgtgtgactcgctggtacct	W97817
31802	gtgtgactcgctggtacctggacac	W97817
31803	tgactcgctggtacctggacaccca	W97817
31804	tagcagtggacttcacttggcagga	W97817
31805	gacaagatcatcctcctttccgaga	W97714
31806	caagatcatcctcctttccgagaca	W97714
31807	gatgcgcgtccaccatcacattctt	W97714
31808	atgcgcgtccaccatcacattcttc	W97714
31809	caccatcacattcttccctgactgg	W97714
31810	ccatcacattcttccctgactggtt	W97714
31811	cattcttccctgactggtttcctct	W97714
31812	tcttccctgactggtttcctctctt	W97714
31813	cttccctgactggtttcctctcttg	W97714
31814	cttcggtcatcgccagctccttcgt	W97714
31815	ttcggtcatcgccagctccttcgtt	W97714
31816	cgccagctccttcgttccctggaag	W97714
31817	aagatcatcctcctttccgagacag	W97714
31818	gccagctccttcgttccctggaagc	W97714
31819	catcctcctttccgagacagataaa	W97714
31820	atcctcctttccgagacagataaag	W97714
31821	ctcctttccgagacagataaagaca	W97714
31822	acagataaagacaccttcatgccga	W97714
31823	agataaagacaccttcatgccgatg	W97714
31824	gataaagacaccttcatgccgatgc	W97714

SEQ ID NO:	sequence	DBAxnID
74361	gggacgctttacctcagcgtattct	U49641
74362	ctttacctcagcgtattcttccatg	U49641
74363	ctcagcgtattcttccatggaccac	U49641
74364	gtattcttccatggaccacaaacct	U49641
74365	ggaccacaaacctaggtgcagagaa	U49641
74366	gccctggagttctgtggggaatctt	U49641
74367	tggagctccatttgcacattcttcc	U49641
74368	tccatttgcacattcttcctcaaca	U49641
74369	tgcacattcttcctcaacatgttac	U49641
74370	ttcttcctcaacatgttacaggcga	U49641
74371	atgttacaggcgacatcatgctaat	U49641
74372	caggcgacatcatgctaatgaagtc	U49641
74373	agagccccactgtctgctggaaact	U49641
74374	ggattattcctccatgctataaaaa	U62638
74375	tccatagcctaagtttactgtgagc	U62638
74376	atagtggctgttgctgtcctcattt	U62638
74377	gctgttgctgtcctcatttatgaca	U62638
74378	gctgtcctcatttatgacaagtact	U62638
74379	agaatcagtcagtcttaggcacact	U62638
74380	agtcagtcttaggcacactgtccag	U62638
74381	gcacactgtccagtctcatagccac	U62638
74382	tgtccagtctcatagccaccagcca	U62638
74383	tagccaccagccacttagggctgaa	U62638
74384	ccagccacttagggctgaacagtta	U62638
74385	acagttactatgtggcttgtctgaa	U62638
74386	gtttactgtgagcatctttagcatg	U62638
74387	catctttagcatgccatttagcgag	U62638
74388	tagcatgccatttagcgagggtttt	U62638
74389	tgaaggctgatcacaccgagattct	U62638
74390	ttttggctagactactgtagggtgg	U62638
74391	gccatctcttgtattaatcagcaca	U62638
74392	attaatcagcacatagtggctgttg	U62638
74393	cagcacatagtggctgttgctgtcc	U62638
74394	ggaccaatgagccttggagagaaaa	U51000
74395	ccaatgagccttggagagaaaataa	U51000
74396	aacatgttgcacaagcttagcctct	U51000
74397	atgttgcacaagcttagcctctttc	U51000
74398	ttgcacaagcttagcctctttccgt	U51000
74399	agcctctttccgttctgttgtgtgt	U51000
74400	tggctgtaaacccgatgctttgtga	U51000
74401	taaacccgatgctttgtgaaatgag	U51000
74402	acccgatgctttgtgaaatgagaat	U51000
74403	gaatcttgacattttacttgtgaaa	U51000
74404	tgaccgattgaaatccaccgtgttt	U51000
74405	caccgtgttttgtgttctctatgtc	U51000
74406	ttatgtaaaagcaccccaattccag	U51000
74407	agacacaagcagcggctcgaccaca	U51000
74408	cacaagcagcggctcgaccacagaa	U51000
74409	ctcgaccacagaacacaagtcatca	U51000
74410	cacagaacacaagtcatcaccctga	U51000
74411	agaacacaagtcatcaccctgaatg	U51000
74412	acacaagtcatcaccctgaatgcac	U51000
74413	gtcatcaccctgaatgcacgggctc	U51000
74414	gtcagtgatgccgctgcaagacacc	U29947
74415	agacaccgactgctggcggaacaag	U29947
74416	gagaccacactggcagccaaccagc	U29947
74417	tccagggcttccaggctcaagtgga	U29947
74418	gcttccaggctcaagtggatgacaa	U29947
74419	tccaagttggaccctacctcagtca	U29947
74420	ttggaccctacctcagtcacactga	U29947
74421	tcagtcacactgaagcctatggaaa	U29947
74422	accttcctggcctctgtacaatggc	U29947
74423	cgccttctcttgctgtaaccattca	U29947
74424	ctgtaaccattcacaaaaatcatta	U29947
74425	atcattaaaaagctccgactgagaa	U29947
74426	cgactgctggcggaacaagaagtcc	U29947
74427	ctgcgcttggagcaccagttcgctc	U29947
74428	ttggagcaccagttcgctctgaaag	U29947

SEQ ID NO	sequence	DBAxnID
116965	ccttcatggccagtgacttgcttta	W17770
116966	gagatcagacctggttggatcccag	W17770
116967	tggccagtgacttgctttaggcact	W17770
116968	tgctttaggcactggacttgcggtg	W17770
116969	aggcactggacttgcggtgacactc	W17770
116970	tggacttgcggtgacactcagtcag	W17770
116971	cagtcagagctgctgccagaatctt	W17770
116972	gagctgctgccagaatcttgccacc	W17770
116973	ctgccagaatcttgccaccatcgat	W17770
116974	tgcagtcagctcaggggttgcattt	L02914
116975	attccattggatcccatcaatccag	L02914
116976	actgaggacccatatgctcaactgt	L02914
116977	tatgctcaactgtatcatattggat	L02914
116978	tcaagcttagcagtcaaggccatgt	L02914
116979	ttagcagtcaaggccatgtttggcc	L02914
116980	cacccatggtcaatgacgtggact	L02914
116981	aatgacgtggactcctctcacctcc	L02914
116982	cagcttctcagtttctgcctgggca	L02914
116983	ctcagtttctgcctgggcaatggct	L02914
116984	gtgaaccaggaccttgtatctgtct	L02914
116985	caggaccttgtatctgtctgctctg	L02914
116986	cccatcaatccagagtggctctacc	L02914
116987	aatccagagtggctctaccactgtg	L02914
116988	aaccacattgtgaaccgagagccac	L02914
116989	aaccgagagccacattcttcaggtg	L02914
116990	agtcaggaggccactgaccactggc	L02914
116991	gaggccactgaccactggcatatca	L02914
116992	cactggcatatcacagctgcacact	L02914
116993	tcgtctccgttccctagcagacact	L02914
116994	agtcatgactccagatatcttagct	AA041826
116995	gtcatgactccagatatcttagcta	AA041826
116996	gccaaagtatcggactcgggagcaa	AA041826
116997	ccaaagtatcggactcgggagcaag	AA041826
116998	gtatcggactcgggagcaagaaagt	AA041826
116999	tatcggactcgggagcaagaaagta	AA041826
117000	ctcccctgaggagcgagaaaagaag	AA041826
117001	aatttcaaaagacctacatgatgat	AA041826
117002	atttcaaaagacctacatgatgatg	AA041826
117003	ttcaaaagacctacatgatgatgat	AA041826
117004	tcaaaagacctacatgatgatgatg	AA041826
117005	agacctacatgatgatgatgaagat	AA041826
117006	catgactccagatatcttagctaag	AA041826
117007	gactccagatatcttagctaagaaa	AA041826
117008	gaaattagctgctgctgaaggctca	AA041826
117009	aaattagctgctgctgaaggctcag	AA041826
117010	attagctgctgctgaaggctcagag	AA041826
117011	ttagctgctgctgaaggctcagagc	AA041826
117012	agctgctgctgaaggctcagagcca	AA041826
117013	gctgctgctgaaggctcagagccaa	AA041826
117014	tgcttgcaaaacatggcttggctcc	M61000
117015	ttttttccagaaatatctataatat	M61000
117016	tggcttatgcccagatttcccattt	M61000
117017	cttatgcccagatttcccatttcat	M61000
117018	cccagatttcccatttcatagaaat	M61000
117019	tttcccatttcatagaaattctgat	M61000
117020	cccatttcatagaaattctgattct	M61000
117021	atccaattttggtcattatagtgtc	M61000
117022	ttatagtgtcattctaccatagaag	M61000
117023	tagtgtcattctaccatagaagaga	M61000
117024	tgtcattctaccatagaagagagat	M61000
117025	cattctaccatagaagagagatctt	M61000
117026	aagagtcccatgtgtgaggaatgga	M61000
117027	agtcccatgtgtgaggaatggactc	M61000
117028	actccatttataacattggaagcca	M61000
117029	aatattgacttttcagagatgttg	M61000
117030	caaccaaatgtagacccatgtatgg	M61000
117031	aatgtagacccatgtatggctatgg	M61000
117032	gtagacccatgtatggctatggagc	M61000

TABLE 1

SEQ ID NO	sequence	DBAxnID
31825	taaagacaccttcatgccgatgcgc	W97714
31826	acttgcctagggatgcagagatatc	L46768
31827	agtgtcctccaggggaagagctaat	L46768
31828	gccgatgcaaacgctttcgatgggt	L46768
31829	gcaaacgctttcgatgggttgatgg	L46768
31830	gctttcgatgggttgatggaagttc	L46768
31831	attttgcatactgggctgctgggca	L46768
31832	gtgtgaccctgtgtactcaaggagg	L46768
31833	aaggaggccactggcgtctatctca	L46768
31834	ggcgtctatctcactgtgtcaagag	L46768
31835	tatctcactgtgtcaagagacgtcc	L46768
31836	tcaagagacgtcccttcatctgttc	L46768
31837	gacgtcccttcatctgttcgtattg	L46768
31838	ttcagtgccccaaggaagaggacac	L46768
31839	acgtcccttcatctgttcgtattga	L46768
31840	aggacacaacaagtcttatgggtga	L46768
31841	gtcttatgggtgactctggatgcaa	L46768
31842	gatgcaagacctgtcgctacctcct	L46768
31843	acctcctagtcaggagggctgaatg	L46768
31844	tcgcctccattcacagtttcagtgt	L46768
31845	ttaacttcggaatccagtccgctgt	L46768
31846	tcggaatccagtccgctgtcagggg	L46768
31847	tatgaacctgtgttctgtcagatta	W97904
31848	atgaacctgtgttctgtcagattat	W97904
31849	ttcccaaaggtggcagctgttcctc	W97904
31850	ctcagctgctcctgctggaccaaag	W97904
31851	ggtgttcgttagtcctcttgcgaag	W97904
31852	gtgttcgttagtcctcttgcgaaga	W97904
31853	gttcgttagtcctcttgcgaagaag	W97904
31854	ttcgttagtcctcttgcgaagaagt	W97904
31855	cgttagtcctcttgcgaagaagttg	W97904
31856	tagtcctcttgcgaagaagttggca	W97904
31857	agtcctcttgcgaagaagttggcag	W97904
31858	tcctcttgcgaagaagttggcagca	W97904
31859	aacctgtgttctgtcagattatctt	W97904
31860	tgttctgtcagattatctttgcagt	W97904
31861	agattatctttgcagtgatgaatgg	W97904
31862	attatctttgcagtgatgaatggat	W97904
31863	ttatctttgcagtgatgaatggata	W97904
31864	atctttgcagtgatgaatggataga	W97904
31865	tagatgctctgtaacttttttccca	W97904
31866	tttcccaaaggtggcagctgttcct	W97904
31867	atccgatgtaactcggtcctcccag	U34072
31868	ttcattgcaacgcccatgacccaga	U34072
31869	atcacaggggcctccgtggaagtca	U34072
31870	gcagcctgcagagcagacatccctt	U34072
31871	tgcagagcagacatcccttctttag	U34072
31872	agagcagacatcccttctttagacc	U34072
31873	gcagacatcccttctttagaccagg	U34072
31874	tctttagaccagggacagaagtggg	U34072
31875	ccctctcaggaggtcttttcatgta	U34072
31876	tctcaggaggtcttttcatgtaact	U34072
31877	tcatgtaactgcctgatggaagccg	U34072
31878	aactgcctgatggaagccggactct	U34072
31879	attgcaacgcccatgacccagaaaa	U34072
31880	gcaacgcccatgacccagaaaatgc	U34072
31881	atgacccagaaaatgccagagaaag	U34072
31882	actgcaatgattccgttgggacaca	U34072
31883	gttgcattcttggcatctgaagaca	U34072
31884	ttcttggcatctgaagacagtggat	U34072
31885	ggatacatcacaggggcctccgtgg	U34072
31886	tacatcacaggggcctccgtggaag	U34072
31887	agtccagcatctatcggagtcttat	W97919
31888	ccagcatctatcggagtcttattgc	W97919
31889	cccaccgtgcagtgtgcatcaacca	W97919
31890	tgtgcatcaaccacaacacccctgg	W97919
31891	cccctgggcttcccaagatctacat	W97919
31892	ctgggcttcccaagatctacatcca	W97919
74429	caccagttcgctctgaaagaagatt	U29947
74430	gttcagaacctgttccagaccttca	U29947
74431	ttccagaccttcactatcaactacc	U29947
74432	accttcactatcaactacctgcagg	U29947
74433	aactacctgcaggagaccacactgg	U29947
74434	gcagcgattgtcctgtgggagccac	W15841
74435	cgattgtcctgtgggagccacggcc	W15841
74436	gcatgccccggatcttgtccagcag	W15841
74437	atgccccggatcttgtccagcaggc	W15841
74438	gccccggatcttgtccagcaggcca	W15841
74439	cccggatcttgtccagcaggccaga	W15841
74440	gatcttgtccagcaggccagagatg	W15841
74441	tcttgtccagcaggccagagatgaa	W15841
74442	ttgtccagcaggccagagatgaagg	W15841
74443	gtccagcaggccagagatgaaggcc	W15841
74444	agatgaaggcctcagtgggtttgta	W15841
74445	gaaggcctcagtgggtttgtaacag	W15841
74446	attgtcctgtgggagccacggccgt	W15841
74447	tgtcctgtgggagccacggccgtct	W15841
74448	cgtctgagtcaggaccctcatttct	W15841
74449	tctgagtcaggaccctcatttcttc	W15841
74450	agtcaggaccctcatttcttctggg	W15841
74451	tcaggaccctcatttcttctggggt	W15841
74452	cagcttctgcatgccccggatcttg	W15841
74453	ttctgcatgccccggatcttgtcca	W15841
74454	ccaaaatgtcccaacggccatcaga	AA073126
74455	ggccatcagaacccggagaattctg	AA073126
74456	gctttagcaactttcaccctatctg	AA073126
74457	ttagcaactttcaccctatctgtgg	AA073126
74458	ttcaccctatctgtgggacgccctg	AA073126
74459	accctatctgtgggacgccctgtag	AA073126
74460	ggacgccctgtagctagatacttgc	AA073126
74461	atcaggtgcgtctcgaataaggccc	AA073126
74462	cagttttgtctcctcttctgaacta	AA073126
74463	tgtctcctcttctgaactaacccga	AA073126
74464	ctcttctgaactaacccgacctgag	AA073126
74465	ccgacctgaggtcttatagtatcgg	AA073126
74466	gattctgcagaaccttctaaactgg	AA073126
74467	tctgcagaaccttctaaactggctg	AA073126
74468	gcagaaccttctaaactggctgaat	AA073126
74469	ccttctaaactggctgaatgcccca	AA073126
74470	aaactggctgaatgccccagaggtg	AA073126
74471	gaatgccccagaggtggcttcatgg	AA073126
74472	tgccccagaggtggcttcatggctt	AA073126
74473	ggcttcatggctttagcaactttca	AA073126
74474	ctcattaagaacgacctgctgtgcc	U06924
74475	cgagaacgcgctctgctcaaggacc	U06924
74476	attcgcaactacaaagtcatggctg	U06924
74477	aaagtcatggctgccgagaacatac	U06924
74478	ctgaagtatctgtaccccaatattg	U06924
74479	tatctgtaccccaatattgacaaag	U06924
74480	gaagcaccagaaccgatggagcttg	U06924
74481	gagcttgacgaccctaagcgaactg	U06924
74482	ttgatttctgtgtctgaagtccacc	U06924
74483	ccttctagacttcagaccacagaca	U06924
74484	acagacaacctgcttcccatgtctc	U06924
74485	aacctgcttcccatgtctccagagg	U06924
74486	cgcgctctgctcaaggaccagcagc	U06924
74487	acgttcctgcttagattcagtgaga	U06924
74488	agattcagtgagagctcccgggaag	U06924
74489	ggtgaacctgacttccatgccgtgg	U06924
74490	cctgacttccatgccgtggagccct	U06924
74491	ttccatgccgtggagccctacacga	U06924
74492	ttcccagatattattcgcaactaca	U06924
74493	gatattattcgcaactacaaagtca	U06924
74494	aggacctggcagctcgagcgatgaa	X97581
74495	tggcagctcgagcgatgaatgtgga	X97581
74496	aggcacgcactggcagtagtccgcc	X97581
117033	caatggcttatgcccagatttccca	M61000
117034	agggccttgcgagcccagagcccag	W17662
117035	cagagcccagcacacgctgcgcagg	W17662
117036	aagtccctgctatgtggatatttgt	W17662
117037	aaactacgtatcgcagatttcattg	W17662
117038	aactacgtatcgcagatttcattgc	W17662
117039	ctacgtatcgcagatttcattgctt	W17662
117040	tacgtatcgcagatttcattgcttc	W17662
117041	acgtatcgcagatttcattgcttca	W17662
117042	gtatcgcagatttcattgcttcagg	W17662
117043	tatcgcagatttcattgcttcagga	W17662
117044	cctctgcaagtgggaacagccaatt	W17662
117045	tttttcacaaagacagaaggtgaag	W17662
117046	agagcccagcacacgctgcgcaggc	W17662
117047	gagcccagcacacgctgcgcaggcg	W17662
117048	gcccagcacacgctgcgcaggcggg	W17662
117049	gcgtctctccatcctgaagtccctg	W17662
117050	gtctctccatcctgaagtccctgct	W17662
117051	tctctccatcctgaagtccctgcta	W17662
117052	ctccatcctgaagtccctgctatgt	W17662
117053	gaagtccctgctatgtggatatttg	W17662
117054	aaggccttcggtcatggctcgttgc	AA028871
117055	gccttcggtcatggctcgttgctgg	AA028871
117056	tacccatgcccgcagtgcgcacagg	AA028871
117057	cagtgcgcacaggcctttgggcaga	AA028871
117058	tgcgcacaggcctttgggcagagct	AA028871
117059	gcacaggcctttgggcagagctcag	AA028871
117060	caggccttgggcagagctcagcgt	AA028871
117061	gcctttgggcagagctcagcgttgc	AA028871
117062	tttgggcagagctcagcgttgctcc	AA028871
117063	cagagctcagcgttgctccagcatc	AA028871
117064	agctcagcgttgctccagcatcagc	AA028871
117065	actgctgagcgtccctaccgctgtc	AA028871
117066	ttcggtcatggctcgttgctggccc	AA028871
117067	cgtccccacaagtgcccagtgtgtg	AA028871
117068	ccccacaagtgcccagtgtgtgcca	AA028871
117069	cacaagtgcccagtgtgtgccaaag	AA028871
117070	aagtgcccagtgtgtgccaaaggct	AA028871
117071	cagggctctgcgctacttaaacacc	AA028871
117072	ggctctgcgctacttaaacacctgc	AA028871
117073	tctgcgctacttaaacacctgcgca	AA028871
117074	gtcactggccttgggcaagaagaga	AA048868
117075	agcagcggattctctcgttcacgct	AA048868
117076	tcctagatccattccactcggagtt	AA048868
117077	tagatccattccactcggagttggg	AA048868
117078	atccattccactcggagttgggaag	AA048868
117079	cattccactcggagttgggaagcag	AA048868
117080	tccactcggagttgggaagcaggtt	AA048868
117081	aaggatcgacgcaagccgtcagcca	AA048868
117082	gatcgacgcaagccgtcagccagac	AA048868
117083	cgacgcaagccgtcagccagacatc	AA048868
117084	cgcaagccgtcagccagacatccat	AA048868
117085	aagccgtcagccagacatccataaa	AA048868
117086	agcggattctctcgttcacgctcag	AA048868
117087	cgttcacgctcagcgccttgcggat	AA048868
117088	tcagcgccttgcggatgacatcgcg	AA048868
117089	gcgccttgcggatgacatcgcgcat	AA048868
117090	ggatgacatcgcgcatcatagtccc	AA048868
117091	tgacatcgcgcatcatagtcccagc	AA048868
117092	cagcccttgtcctagatccattcca	AA048868
117093	ttgtcctagatccattccactcgga	AA048868
117094	tctgagaatcagcactgctagtgga	M13964
117095	gagaatcagcactgctagtggagat	M13964
117096	ccgtgacatcatccagcgcatgcat	M13964
117097	gcatctccgccaatacgagctgctc	M13964
117098	tctccgccaatacgagctgctctaa	M13964
117099	ccaatacgagctgctctaagaaggg	M13964
117100	atacgagctgctctaagaagggaac	M13964

TABLE 1

SEQ ID NO	sequence	DBAxnID
31893	ggcttcccaagatctacatccatcg	W97919
31894	ttcccaagatctacatccatcgggt	W97919
31895	ccaagatctacatccatcgggttgg	W97919
31896	agatctacatccatcgggttggccg	W97919
31897	tctacatccatcgggttggccgcac	W97919
31898	acatccatcgggttggccgcacagc	W97919
31899	gcatctatcggagtcttattgccac	W97919
31900	tctatcggagtcttattgccactga	W97919
31901	gtcttattgccactgacgtcggctc	W97919
31902	ttattgccactgacgtcggctcaga	W97919
31903	ttgccactgacgtcggctcagaggg	W97919
31904	ccactgacgtcggctcagaggggct	W97919
31905	acgtcggctcagaggggcttggaca	W97919
31906	tcggctcagaggggcttggacatcc	W97919
31907	ggatctagttccctttgcttgctac	W99022
31908	atctagttccctttgcttgctactc	W99022
31909	gatggcccatttgcctgctccctct	W99022
31910	ccatttgcctgctccctctgctgga	W99022
31911	gctccctctgctggaaggtcttcaa	W99022
31912	tccctctgctggaaggtcttcaaga	W99022
31913	cctctgctggaaggtcttcaagaag	W99022
31914	tctgctggaaggtcttcaagaagcc	W99022
31915	accagcaccagatcatccacacggg	W99022
31916	gtgagaaacccttctcctgctccgt	W99022
31917	tcctgctccgtgtgcagcaaaagct	W99022
31918	tgcagcaaaagcttcaaccggagga	W99022
31919	agttccctttgcttgctactcacgg	W99022
31920	ccctttgcttgctactcacgggctc	W99022
31921	cgggctctctttgctcagtccccat	W99022
31922	tcctcttcttcacagggtctccctt	W99022
31923	cacagggtctcccttctttccactg	W99022
31924	cagggtctcccttctttccactgat	W99022
31925	cttctttccactgatgggaacacca	W99022
31926	tctttccactgatgggaacaccacc	W99022
31927	ctaactgctgagctgggcactctgc	U34883
31928	actgctgagctgggcactctgcctg	U34883
31929	tgtcttacaatttttccaagctgat	U34883
31930	tttccaagctgatttattagttata	U34883
31931	aaccagtaatacacacatcatctag	U34883
31932	cagtaatacacacatcatctagctt	U34883
31933	tacacacatcatctagctttttcat	U34883
31934	tctcccttgcagccctacgtgttga	U34883
31935	cccttgcagccctacgtgttgaggt	U34883
31936	tacgtgttgaggttctcttgcaatc	U34883
31937	ttgaggttctcttgcaatctgtgtt	U34883
31938	ttctcttgcaatctgtgttaagtac	U34883
31939	tgtctgactggacacacttcctgaa	U34883
31940	ggacacacttcctgaaatcaggccg	U34883
31941	tctgtctttcagttctgtttcaaac	U34883
31942	tttcagttctgtttcaaactagtgt	U34883
31943	ctagtgtaacaccacgctggctcta	U34883
31944	caccacgctggctctaatgtatctt	U34883
31945	cacgctggctctaatgtatcttttc	U34883
31946	ttctgtcttacaatttttccaagct	U34883
31947	acactcagcggtcatgtctggacat	M33036
31948	gtctggacatgagtgcccagggaat	M33036
31949	gcatttcactgggagcttgcactat	M33036
31950	tttcctgcagtgatcagggtcctgc	M33036
31951	atcagggtcctgcaagcagtgggga	M33036
31952	gcaatcatggttcactgcagtcttg	M33036
31953	atggttcactgcagtcttgaccttt	M33036
31954	gacctttgggctcaagtgatcctc	M33036
31955	tcctgagtagctgggaccataggct	M33036
31956	gggaccataggctcacaacaccaca	M33036
31957	gggtctcgcaacattgcccagactt	M33036
31958	attgcccagacttcctttgtgttag	M33036
31959	tggacatgagtgcccagggaatatg	M33036
31960	gaatatgcccaagctatgccttgtc	M33036
74497	gtccgcccattgtcagcttggacaa	X97581
74498	ccattgtcagcttggacaaagcgag	X97581
74499	gccggccattcgcgaggttcattga	X97581
74500	aagtccactgcagagttggacgtca	X97581
74501	tggaccccacatgcctaggctctca	X97581
74502	gcctaggctctcattaatacttaat	X97581
74503	gctctcattaatacttaatacccac	X97581
74504	tctgcaccgtgtggctgctgcaggg	X97581
74505	ttgactcttctgaaggtaagaactc	X97581
74506	ggaaccagtacgccgctgccatcac	X97581
74507	ccatcaccaacgggctggccatgaa	X97581
74508	ccaacgggctggccatgaagaacaa	X97581
74509	atgagatctctgtcatccagaacgg	X97581
74510	tctctgtcatccagaacggaggcat	X97581
74511	tcatccagaacggaggcatccctca	X97581
74512	agaacggaggcatccctcagctccc	X97581
74513	tcccgcctttgggtgccatggccag	X97581
74514	cgaagctccgaaaccaggagtagat	AA073154
74515	ctggacatcatggcagcagagaagc	AA073154
74516	atctgactcaggtgtggctcacctt	AA073154
74517	tctgactcaggtgtggctcaccttа	AA073154
74518	ctgactcaggtgtggctcaccttag	AA073154
74519	actcaggtgtggctcaccttagagg	AA073154
74520	ctcaggtgtggctcaccttagagga	AA073154
74521	tcaggtgtggctcaccttagaggaa	AA073154
74522	aggtgtggctcaccttagaggaatc	AA073154
74523	gtgtggctcaccttagaggaatcct	AA073154
74524	tgtggctcaccttagaggaatcctg	AA073154
74525	ctcaccttagaggaatcctgcgaaa	AA073154
74526	tggacatcatggcagcagagaagcg	AA073154
74527	ggacatcatggcagcagagaagcga	AA073154
74528	acatcatggcagcagagaagcgacg	AA073154
74529	tgggcaatctgactcaggtgtggct	AA073154
74530	gggcaatctgactcaggtgtggctc	AA073154
74531	ggcaatctgactcaggtgtggctca	AA073154
74532	gcaatctgactcaggtgtggctcac	AA073154
74533	aatctgactcaggtgtggctcacct	AA073154
74534	acttgcttagcttagaggtggccat	U58203
74535	aggtggccatcagacaactggagga	U58203
74536	ctcagacaggcctttcatgaagaga	U58203
74537	agacaggcctttcatgaagagaaga	U58203
74538	cttgatagcagacctgctcgggtcc	U58203
74539	gatagcagacctgctcgggtccctg	U58203
74540	tgccttctgcttggggaactcaggg	U58203
74541	cttctgcttggggaactcagggctt	U58203
74542	cacttttcaggccgtctcagtattg	U58203
74543	ggccgtctcagtattgcctatgggg	U58203
74544	taccccaagtgcctttgctatgttt	U58203
74545	tttatatcctggactggaggtttat	U58203
74546	tggccatcagacaactggaggagtt	U58203
74547	ccatcagacaactggaggagttgga	U58203
74548	tggctgcacctgaacgctctgctca	U58203
74549	ctgcacctgaacgctctgctcagac	U58203
74550	cacctgaacgctctgctcagacagg	U58203
74551	ctgaacgctctgctcagacaggcct	U58203
74552	aacgctctgctcagacaggcctttc	U58203
74553	gctctgctcagacaggcctttcatg	U58203
74554	ttagtccgtgttactccacaagcgg	AA073167
74555	tccgtgttactccacaagcggcaat	AA073167
74556	tcagaacagaccttgcttacccatc	AA073167
74557	agaacagaccttgcttacccatctt	AA073167
74558	aacagaccttgcttacccatcttgc	AA073167
74559	atcttgcctcctcatattcaaaatt	AA073167
74560	cttgcctcctcatattcaaaattta	AA073167
74561	cctcctcatattcaaaatttagaga	AA073167
74562	tcctcatattcaaaatttagagata	AA073167
74563	tgtactagagtccaagctgaaggat	AA073167
74564	tactagagtccaagctgaaggattc	AA073167
117101	ttaattcagccttaagcacaattaa	M13964
117102	gcatgatcaacaccgcaacctttcc	M13964
117103	tgatcaacaccgcaacctttccttt	M13964
117104	cacaccttgcttagatttccaaatt	M13964
117105	gtaagcttaagggccctgcagaaga	M13964
117106	aatcagcactgctagtggagatggg	M13964
117107	tcactttacctgcgccgtggacact	M13964
117108	ctttacctgcgccgtggacactgag	M13964
117109	tgagaacatccgccgtgtcttcaac	M13964
117110	catccgccgtgtcttcaacgactgc	M13964
117111	ccgtgtcttcaacgactgccgtgac	M13964
117112	tgtcttcaacgactgccgtgacatc	M13964
117113	cttcaacgactgccgtgacatcatc	M13964
117114	agagagccctgattgacatgtattc	
117115	gagccctgattgacatgtattcaga	
117116	attctcaactacatcgccaccaaat	
117117	ctcaactacatcgccaccaaatatg	
117118	tacatcgccaccaaatatgacctct	
117119	atcgccaccaaatatgacctctatg	
117120	gccaccaaatatgacctctatggga	
117121	accaaatatgacctctatgggaagg	
117122	aaatatgacctctatgggaaggaca	
117123	tatgacctctatgggaaggacatga	
117124	agagccctgattgacatgtattcag	
117125	gtattatgtcccccagaccaaagag	
117126	acatgtattcagagtccggaagatt	
117127	tgtattcagagtccggaagatttgg	
117128	gaccaagtgcccatggtggagattg	
117129	gcgcagaccagagccattctcaact	
117130	cagaccagagccattctcaactaca	
117131	accagagccattctcaactacatcg	
117132	agagccattctcaactacatcgcca	
117133	gccattctcaactacatcgccacca	
117134	acatgtattcagagtccggaagatt	
117135	catgtattcagagtccggaagattt	
117136	atgtattcagagtccggaagatttg	
117137	tgtattcagagtccggaagatttgg	
117138	gtattcagagtccggaagatttgga	
117139	tattcagagtccggaagatttggaa	
117140	tggtattatgtcccccagaccaaag	
117141	gtattatgtcccccagaccaaagag	
117142	acatgtattcagagtccggaagatt	
117143	catgtattcagagtccggaagattt	
117144	atgtattcagagtccggaagatttg	
117145	tgtattcagagtccggaagatttgg	
117146	gtattcagagtccggaagatttgga	
117147	tattcagagtccggaagatttggaa	
117148	tggtattatgtcccccagaccaaag	
117149	gtattatgtcccccagaccaaagag	
117150	cacttcacaacatctgagaaaaaca	W17892
117151	agctacttgcttctaagattcgatg	W17892
117152	caccctggcccatgaatcctggaat	W17892
117153	cttatagccaatcttttctctcctt	W17892
117154	cttttctctcctttcgtgctcagag	W17892
117155	ttcgtgctcagagcatggaagtttt	W17892
117156	tctgctgtctttggagctctgtctg	W17892
117157	gtctttggagctctgtctgcaaaca	W17892
117158	tctgcaaacagctcgaaggagatgc	W17892
117159	gagatgcggcccaagggcttgtcat	W17892
117160	cccaagggcttgtcattgggcatga	W17892
117161	tcattgggcatgatgttggaagacc	W17892
117162	tacttgcttctaagattcgatggac	W17892
117163	ttgcttctaagattcgatggacctg	W17892
117164	agattcgatggacctgccaccagtg	W17892
117165	ttcgatggacctgccaccagtgcca	W17892
117166	gatggacctgccaccagtgccatta	W17892
117167	gccaccagtgccattatgtgcgtgt	W17892
117168	accagtgccattatgtgcgtgtgaa	W17892

TABLE 1

SEQ ID NO	sequence	DBAxnID
31961	tatgcccaagctatgccttgtcctc	M33036
31962	gctatgccttgtcctcttgtcctgt	M33036
31963	ccttgtcctcttgtcctgtttgcat	M33036
31964	cctcttgtcctgtttgcatttcact	M33036
31965	cttgtcctgtttgcatttcactggg	M33036
31966	gtcctgtttgcatttcactgggagc	M33036
31967	gtggctgcctgctttcagaatcctg	L21973
31968	gctgcctgctttcagaatcctgtgt	L21973
31969	aagagttgctgaggcccaagcagtt	L21973
31970	tgctgaggcccaagcagtttattta	L21973
31971	agacagactgacagccatggatggg	L21973
31972	actgacagccatggatgggctggag	L21973
31973	agccatggatgggctggagaaacag	L21973
31974	ttgtaccagtactccagccgcatgt	L21973
31975	cagtactccagccgcatgtatccag	L21973
31976	tacgtgagggccttggctgactgcg	L21973
31977	gtatgcgtccttcctatggctggag	L21973
31978	gtctgcactttgatttgtttcctaa	L21973
31979	tttcagaatcctgtgtgtcagccag	L21973
31980	cagaatcctgtgtgtcagccaggcc	L21973
31981	aatcctgtgtgtcagccaggccggg	L21973
31982	tgtcagccaggccgggtggtacagc	L21973
31983	cagcttgcctggctgggtttgcagg	L21973
31984	tccgatcgaagctttaatggagcgt	L21973
31985	ttatcgaggcctctgcgaagcctgg	L21973
31986	ctacccaagagttgctgaggcccaa	L21973
31987	aggcctcgatgtccagccatgacgc	W98002
31988	ccagtcgcaatccctgctgcttatg	W98002
31989	agtacagagctgggcacagtccttt	W98002
31990	gagctgggcacagtccttgacaag	W98002
31991	ggcacagtcctttgacaagttgatg	W98002
31992	acagtcctttgacaagttgatgcat	W98002
31993	gttgatgcatagccccacggcgcgc	W98002
31994	gatgcatagccccacggcgcgcagt	W98002
31995	tgtattccgggcattcctgcgcaca	W98002
31996	ccgggcattcctgcgcacagaatac	W98002
31997	ggcattcctgcgcacagaatacagc	W98002
31998	cctgcgcacagaatacagcgaagag	W98002
31999	gtcgcaatccctgctgcttatgctg	W98002
32000	gcttatgctggtgctgctgctgtac	W98002
32001	gctgctgctgtactgctcctggaac	W98002
32002	gctgctgtactgctcctggaaccaa	W98002
32003	ccccagctgtgaagtctgcactcca	W98002
32004	ctgtgaagtctgcactccaccaagc	W98002
32005	tgaagtctgcactccaccaagccct	W98002
32006	tccaccaagccctaaggaagtacag	W98002
32007	ctcagacgccctgctggaaaagaag	M85151
32008	catggccgctagggagcgcaaagcc	M85151
32009	agcgttccacaaactgatacgcttt	M85151
32010	ccacaaactgatacgctttaagtgc	M85151
32011	actgatacgctttaagtgcgcaggt	M85151
32012	ttgacttgtcaatggcagtggggtc	M85151
32013	tgtcaatggcagtggggtcgcctaa	M85151
32014	gtcttttcacaggtaggtcaaatct	M85151
32015	cttctgggcaagggcaatggatcct	M85151
32016	aagcctagcttctctgagagagcac	M85151
32017	agcttctctgagagagcactctgga	M85151
32018	tactgtaaagcttccatacccgagg	M85151
32019	ggagcgcaaagccaccaagacccta	M85151
32020	catctccctggtgatgcctatctgt	M85151
32021	cctggtgatgcctatctgtaaggat	M85151
32022	taaggatgcctgctggtttcacatg	M85151
32023	ctggtttcacatggccatttttgac	M85151
32024	ggccatttttgacttcttcaattgg	M85151
32025	cttcttcaattggttaggctatctt	M85151
32026	ctacaccatgtccaatgaggacttc	M85151
32027	gtactgccagaataaacccaagtca	W98059
32028	ccagaataaacccaagtcagagcat	W98059
74565	ctgaaggattcccgttgacgcgagt	AA073167
74566	cgtgttactccacaagcggcaatta	AA073167
74567	tgttactccacaagcggcaattatt	AA073167
74568	ttactccacaagcggcaattattgg	AA073167
74569	tccacaagcggcaattattggggag	AA073167
74570	gagtcgccaacaagcaaaattcaga	AA073167
74571	gtcgccaacaagcaaaattcagaac	AA073167
74572	cgccaacaagcaaaattcagaacag	AA073167
74573	attcagaacagaccttgcttaccca	AA073167
74574	tttctccaacagcgctgatgatatt	X99641
74575	tgatatcgctcggggctttgagaga	X99641
74576	cgcatatccagaggatgcggaaaac	X99641
74577	gcagtctctgtcgtttctctttgta	X99641
74578	tcctaaacgcatccataaaccactg	X99641
74579	taaacgcatccataaaccactgcgc	X99641
74580	actgcgctcatcacttgtgctccac	X99641
74581	gcgctcatcacttgtgctccacggg	X99641
74582	tcttgattccctaaagttgtagctc	X99641
74583	ttccctaaagttgtagctcttgtga	X99641
74584	gttgtagctcttgtgaacggtcagg	X99641
74585	gtagctcttgtgaacggtcaggcat	X99641
74586	tatcgctcggggctttgagagagga	X99641
74587	agcaacagattcctgcggtgactta	X99641
74588	ttcctgcggtgacttaatgttctta	X99641
74589	agctgacctggttcttgcaaaagaa	X99641
74590	tgacctggttcttgcaaaagaagct	X99641
74591	actgacgtggcacgcatatccagag	X99641
74592	gacgtggcacgcatatccagaggat	X99641
74593	gtggcacgcatatccagaggatgcg	X99641
74594	gtatgaccgacagatccgcctgtgg	AA073211
74595	atgaccgacagatccgcctgtgggg	AA073211
74596	gagtcaaagggctcaccatgctgga	AA073211
74597	gtcaaagggctcaccatgctggacc	AA073211
74598	caaagggctcaccatgctggaccac	AA073211
74599	aagggctcaccatgctggaccacga	AA073211
74600	gggctcaccatgctggaccacgaac	AA073211
74601	tcaccatgctggaccacgaacaggt	AA073211
74602	attcagactgggtctgtgggccgca	AA073211
74603	tcagactgggtctgtgggccgcaat	AA073211
74604	agactgggtctgtgggccgcaatag	AA073211
74605	tgggccgcaatagggccgaggctct	AA073211
74606	gaccgacagatccgcctgtggggac	AA073211
74607	gacagatccgcctgtggggactgga	AA073211
74608	tccgcctgtggggactggaggccca	AA073211
74609	gactggaggcccagaagcggcttcg	AA073211
74610	aggcccagaagcggcttcgagcttc	AA073211
74611	gcccagaagcggcttcgagcttccc	AA073211
74612	tcttatcctggcaggagtcaaaggg	AA073211
74613	atcctggcaggagtcaaagggctca	AA073211
74614	cgctcaagcacgcgggttgccagcc	U67303
74615	ctcaagcacgcgggttgccagcctg	U67303
74616	tgaattcctcaccagcagcattgct	U67303
74617	aattcctcaccagcagcattgctac	U67303
74618	ttcctcaccagcagcattgctactc	U67303
74619	cctcaccagcagcattgctactctg	U67303
74620	accagcagcattgctactctggatc	U67303
74621	cagcagcattgctactctggatcta	U67303
74622	gcagcattgctactctggatctaga	U67303
74623	tcgtcggcgccagatatttctgtcc	U67303
74624	gtcggcgccagatatttctgtcccg	U67303
74625	ccaggccgcggctctttctgcgaac	U67303
74626	ttgccagcctgggtgcaccgtgcgg	U67303
74627	ggttgttcgcaagtcttgcggcgcg	U67303
74628	gagacgtcaagcacgcactctgcgg	U67303
74629	gacgtcaagcacgcactctgcgggt	U67303
74630	tcaagcacgcactctgcgggtgaat	U67303
74631	aagcacgcactctgcgggtgaattc	U67303
74632	gcacgcactctgcgggtgaattcct	U67303
117169	agtgccattatgtgcgtgtgaagtc	W17892
117170	cacatgcccccgaggagaaagagg	M73483
117171	gaggcaagccttgccaagatcaagg	M73483
117172	ctctaccatgtggaagagctggacc	M73483
117173	aagttccttcaacctggcagccaga	M73483
117174	ttccttcaacctggcagccagagga	M73483
117175	aagccttttgatgacgcaaaatgtg	M73483
117176	aaattttgcatcacattgaagtgtt	M73483
117177	ttttgcatcacattgaagtgttttg	M73483
117178	cgtctgtgtcaattcaggtagacat	M73483
117179	aacggccggatgctctctagttgta	M73483
117180	cggatgctctctagttgtagttaaa	M73483
117181	atgctctctagttgtagttaaaatt	M73483
117182	gcaagccttgccaagatcaaggaac	M73483
117183	caagattatctcgttggcaacaggc	M73483
117184	gattatctcgttggcaacaggctga	M73483
117185	tatctcgttggcaacaggctgagga	M73483
117186	gctgatattgccctggttgaactcc	M73483
117187	gatattgccctggttgaactcctct	M73483
117188	ctggttgaactcctctaccatgtgg	M73483
117189	gttgaactcctctaccatgtggaag	M73483
117190	agacatactttcattgccacatttg	W17910
117191	acatactttcattgccacatttgca	W17910
117192	ctacgaagctcagactttgtgaaac	W17910
117193	aacatcatgagaactcacacaggag	W17910
117194	catcatgagaactcacacaggagag	W17910
117195	tcatgagaactcacacaggagagaa	W17910
117196	aggcttcagtgacttctcaggcttg	W17910
117197	gcttcagtgacttctcaggcttgcg	W17910
117198	ttgcgccaccacgagaaaatccaca	W17910
117199	gcgccaccacgagaaaatccacaca	W17910
117200	gccaccacgagaaaatccacacagg	W17910
117201	caccacgagaaaatccacacaggag	W17910
117202	atactttcattgccacatttgcaaa	W17910
117203	actttcattgccacatttgcaaaaa	W17910
117204	tttcattgccacatttgcaaaaaag	W17910
117205	tcattgccacatttgcaaaaaagcc	W17910
117206	attgccacatttgcaaaaaagcctt	W17910
117207	aagcctttctacgaagctcagactt	W17910
117208	gcctttctacgaagctcagactttg	W17910
117209	ctttctacgaagctcagactttgtg	W17910
117210	tggtcattccggccacgtttccaat	W17917
117211	ccctgggtcagacttcagcatcggg	W17917
117212	tgaccgaatcaagcagtctgcagca	W17917
117213	aatcaagcagtctgcagcaggcacc	W17917
117214	caagcagtctgcagcaggcaccaaa	W17917
117215	gcagtctgcagcaggcaccaaacgt	W17917
117216	caaacgtcgggtgtttatcatcgag	W17917
117217	ctgtggctacctggccaccatggca	W17917
117218	tggctacctggccaccatggcaggg	W17917
117219	tgctgcctacatttttgaggaaccc	W17917
117220	tgaggaacccttcaccattcgcgat	W17917
117221	ggaacccttcaccattcgcgatctc	W17917
117222	gtcagacttcagcatcggggctgac	W17917
117223	cttcaccattcgcgatctccaggtg	W17917
117224	agacttcagcatcggggctgacaca	W17917
117225	cttcagcatcggggctgacacagca	W17917
117226	ggctgacacagcactgaacaccatc	W17917
117227	cacagcactgaacaccatctgcacg	W17917
117228	actgaacaccatctgcacgacttgt	W17917
117229	caccatctgcacgacttgtgaccga	W17917
117230	catctgcacgacttgtgaccgaatc	W17917
117231	ccagactcagctctagactactttc	M23383
117232	gtggccctgaattcatcaggataaa	M23383
117233	agagcgcatcagtctccatttgggg	M23383
117234	gcgcatcagtctccatttggggccc	M23383
117235	gccctaggttgttcccagggctgca	M23383
117236	ctaggttgttcccagggctgcaaag	M23383

TABLE 1

SEQ ID NO	sequence	DBAxnID
32029	agctcaatgacctcctcattaaacc	W98059
32030	tcctcattaaaccagtgcagcgaat	W98059
32031	tcatgaaataccagttgctgctgaa	W98059
32032	aataccagttgctgctgaaggattt	W98059
32033	accagttgctgctgaaggattttct	W98059
32034	tcatgtgtttcgtacctaagcgatg	W98059
32035	tgtgtttcgtacctaagcgatgcaa	W98059
32036	gtttcgtacctaagcgatgcaatga	W98059
32037	atgatatgatgtccctggggagact	W98059
32038	atatgatgtccctggggagacttcg	W98059
32039	gaataaacccaagtcagagcatgtg	W98059
32040	taaacccaagtcagagcatgtgctg	W98059
32041	agagcatgtgctgtcagagtttggg	W98059
32042	ctactttgaggagctgaggcagcag	W98059
32043	gctgtggacaccgactgcagctcaa	W98059
32044	gacaccgactgcagctcaatgacct	W98059
32045	gactgcagctcaatgacctcctcat	W98059
32046	tgcagctcaatgacctcctcattaa	W98059
32047	atgtcaaagcggccagggactttat	M80631
32048	actttatcctgaagctgtatcaaga	M80631
32049	gcctactcctccgagacagagggtg	M80631
32050	tcctccgagacagagggtgatctga	M80631
32051	gatctgagcccttcctgcctgatct	M80631
32052	tcctgcctgatctacaagtgcttct	M80631
32053	ctgatctacaagtgcttctggacca	M80631
32054	tgcttctggaccaggacctaaggac	M80631
32055	tggaccaggacctaaggacattatg	M80631
32056	cattatgtagcccacaggacagaga	M80631
32057	gtagcccacaggacagagatgggta	M80631
32058	gtgtctttaattcttcactgtctaa	M80631
32059	atcaagaccagaatcctgacaaaga	M80631
32060	accagaatcctgacaaagagaaggt	M80631
32061	ttatctattctcacttcacttgtgc	M80631
32062	attctcacttcacttgtgctacaga	M80631
32063	cttgtgctacagacaccgagaatat	M80631
32064	ttgtgtttgctgctgtcaaagacac	M80631
32065	ctgtcaaagacacaatcctacagct	M80631
32066	aagacacaatcctacagctaaacct	M80631
32067	ctggttctggtgctacaccagtgct	U24230
32068	agccccttgagcagccccaatggc	U24230
32069	acgtgtgactctgggatagcaaggc	U24230
32070	cgtcgacgatcctctggtcaccaca	U24230
32071	cgatcctctggtcaccacaacatca	U24230
32072	gctgctaaacttgagccctcaggtt	U24230
32073	tcaggttccagcaggaactccagct	U24230
32074	aggaactccagctcaagaatgctgc	U24230
32075	tccagctcaagaatgctgctcctgc	U24230
32076	tcaagaatgctgctcctgctgctgg	U24230
32077	atgctgctcctgctgctggccatca	U24230
32078	ggtctgatctgggcctgggcccaga	U24230
32079	cagccccaatggcctattctgtcag	U24230
32080	caatggcctattctgtcagatgggt	U24230
32081	tgtcctttcaagggtgacaactaca	U24230
32082	tggtcccactatcagcgcttcacca	U24230
32083	accttcatgctccttgactccagct	U24230
32084	tctgatacatgctctactacgtgtg	U24230
32085	acatgctctactacgtgtgactctg	U24230
32086	tctactacgtgtgactctgggatag	U24230
32087	tccagaaggccaatttcccaacgtg	W98117
32088	ctatgtgccgaatatcgagttggat	W98117
32089	ttatccagacaccgatgttatatag	W98117
32090	ccagacaccgatgttatatagatgt	W98117
32091	tatagatgtgtttcccattgagacc	W98117
32092	tagatgtgtttcccattgagaccct	W98117
32093	gatgtgtttcccattgagaccctga	W98117
32094	tgtgtttcccattgagaccctgaga	W98117
32095	tgtttcccattgagaccctgagagt	W98117
32096	tttcccattgagaccctgagagtta	W98117
74633	acgcactctgcgggtgaattcctca	U67303
74634	actctgcgggtgaattcctcaccag	U67303
74635	agagattgtcagctcgttagaaaag	AA073265
74636	agattgtcagctcgttagaaaagtc	AA073265
74637	gccttgaacttgatctgtcactgtg	AA073265
74638	aacttgatctgtcactgtgcctatg	AA073265
74639	cactgtgcctatgcctgtgttcttc	AA073265
74640	ctgtgcctatgcctgtgttcttcga	AA073265
74641	gcctatgcctgtgttcttcgaccga	AA073265
74642	ctatgcctgtgttcttcgaccgagc	AA073265
74643	atgcctgtgttcttcgaccgagcaa	AA073265
74644	gttcttcgaccgagcaaccagatct	AA073265
74645	ttcgaccgagcaaccagatctcggt	AA073265
74646	ttcatagcctctcctgctgtgtaca	AA073265
74647	agaactaggactcccatccttgctc	AA073265
74648	tagcctctcctgctgtgtacatcct	AA073265
74649	catccttgctcagccaggacttcat	AA073265
74650	tccttgctcagccaggacttcatgg	AA073265
74651	cttgctcagccaggacttcatggca	AA073265
74652	tgctcagccaggacttcatggcaac	AA073265
74653	cagccaggacttcatggcaacaacc	AA073265
74654	ggacttcatggcaacaaccgtttcg	AA073265
74655	ttcatggcaacaaccgtttcgtcgg	AA073265
74656	ggtcaaattgctggctgcgggaagc	AA073269
74657	gtcaaattgctggctgcgggaagcc	AA073269
74658	gagaattctgctgacggtagcgtga	AA073269
74659	agaattctgctgacggtagcgtgat	AA073269
74660	ttctgctgacggtagcgtgatcgtc	AA073269
74661	gtcaacgagctgtgctgaagtgtgg	AA073269
74662	tcaacgagctgtgctgaagtgtggt	AA073269
74663	tggtgcacgggagcagtccgattgt	AA073269
74664	tgcacgggagcagtccgattgttgg	AA073269
74665	gagcagtccgattgttgggcggtta	AA073269
74666	agcagtccgattgttgggcggttag	AA073269
74667	gcagtccgattgttgggcggttaga	AA073269
74668	aaattgctggctgcgggaagccagt	AA073269
74669	ttgctggctgcgggaagccagttag	AA073269
74670	agccagttaggtgggaccaggcttg	AA073269
74671	tcgtagctcgagctagtgtggcgat	AA073269
74672	cgtagctcgagctagtgtggcgatc	AA073269
74673	gtagctcgagctagtgtggcgatcg	AA073269
74674	tagctcgagctagtgtggcgatcga	AA073269
74675	cgagaattctgctgacggtagcgtg	AA073269
74676	gaattcttcatcaacaccactcagg	AA073278
74677	attcttcatcaacaccactcaggca	AA073278
74678	acattatctgtcaccattgaaggac	AA073278
74679	tatctgtcaccattgaaggaccatc	AA073278
74680	cattgaaggaccatccaaggtcaga	AA073278
74681	aggaccatccaaggtcagaatggat	AA073278
74682	gaccatccaaggtcagaatggattg	AA073278
74683	ccatccaaggtcagaatggattgcc	AA073278
74684	gattgccaggaaatcccagaggggt	AA073278
74685	caaagtcatgtacactcccatggct	AA073278
74686	aaattacctgattggtgtcaaatat	AA073278
74687	attacctgattggtgtcaaatatgg	AA073278
74688	tcttcatcaacaccactcaggcagg	AA073278
74689	ttcatcaacaccactcaggcaggcc	AA073278
74690	caccactcaggcaggcccagggaca	AA073278
74691	ccactcaggcaggcccagggacatt	AA073278
74692	tcaggcaggcccagggacattatct	AA073278
74693	aggcaggcccagggacattatctgt	AA073278
74694	aggcccagggacattatctgtcacc	AA073278
74695	ggacattatctgtcaccattgaagg	AA073278
74696	gtgcaaactcctcagtagcccaaag	U56773
74697	caaactcctcagtagcccaaaggca	U56773
74698	atgtgaggccagcatttgtgagcaa	U56773
74699	actgctagctacacaggcccagagg	U56773
74700	gctagctacacaggcccagaggaca	U56773
117237	tgttcccagggctgcaaagcgtagg	M23383
117238	tcccagggctgcaaagcgtaggtac	M23383
117239	ggctgcctataaacactggttggga	M23383
117240	acccaagggctgctgtattaaatgt	M23383
117241	agattcgtccataaagtcactgttt	M23383
117242	ttcgtccataaagtcactgtttgaa	M23383
117243	ccacaaactggcacttccactgaac	M23383
117244	aagtcactgtttgaaacctgcagcc	M23383
117245	actggcacttccactgaactcttgc	M23383
117246	ggcacttccactgaactcttgccac	M23383
117247	acttccactgaactcttgccacaca	M23383
117248	ctcttgccacacaggctctgggtga	M23383
117249	acacaatagtacatacctgacaggg	M23383
117250	caatagtacatacctgacagggcaa	M23383
117251	tacatacctgacagggcaaggacgg	M23383
117252	acatgcagaagcgctgctggggagc	W17875
117253	ggcagcacgacccgtctcgccatgg	W17875
117254	tcaagacattcggcatgagtccggc	W17875
117255	caagacattcggcatgagtccggcg	W17875
117256	aagacattcggcatgagtccggcgg	W17875
117257	agacattcggcatgagtccggcggg	W17875
117258	acattcggcatgagtccggcgggtt	W17875
117259	cattcggcatgagtccggcgggttt	W17875
117260	gcatgagtccggcgggtttcctttg	W17875
117261	gcagcacgacccgtctcgccatgga	W17875
117262	gtatttatcaagacattcggcatga	W17875
117263	tatttatcaagacattcggcatgag	W17875
117264	atttatcaagacattcggcatgagt	W17875
117265	tttatcaagacattcggcatgagtc	W17875
117266	ttatcaagacattcggcatgagtcc	W17875
117267	tatcaagacattcggcatgagtccg	W17875
117268	atcaagacattcggcatgagtccgg	W17875
117269	ggcttttctcgttggcaaccagctc	L06047
117270	tctcgttggcaaccagctcagttgg	L06047
117271	cctgcaacccggaagtcagaggaag	L06047
117272	tccagatggcccctatgttgaggtg	L06047
117273	gattgtcctgaagttctagtgcagc	L06047
117274	tggcacccacaaggttccaattgca	L06047
117275	aattgcagtgtcaccacaggccagc	L06047
117276	agtgtcaccacaggccagctgcaga	L06047
117277	accacaggccagctgcagagcattc	L06047
117278	agcattccagaagcaaggtatatag	L06047
117279	gatcccaggagtcaagctcttcaaa	L06047
117280	ctctgcccacaatgacaaatgccaa	L06047
117281	tggcaaccagctcagttgggcagac	L06047
117282	catccagctcctagaagccattttg	L06047
117283	gctcctagaagccattttgatggtg	L06047
117284	ggaagaactcagtgcccctgtactg	L06047
117285	cttccctctgctgcaggcatttaag	L06047
117286	tctgctgcaggcatttaagacaaga	L06047
117287	aatcagcaacattcctacaattaag	L06047
117288	gaagttcctgcaacccggaagtcag	L06047
117289	agtggcttcctcagttggccaggca	AA000602
117290	ggcttcctcagttggccaggcaact	AA000602
117291	ttagcagcctggccttggaatggct	AA000602
117292	gcctggccttggaatggctagatca	AA000602
117293	atcaggttcatgcactgattcatcc	AA000602
117294	aggttcatgcactgattcatccagc	AA000602
117295	atgcactgattcatccagctaagat	AA000602
117296	cactgattcatccagctaagatctg	AA000602
117297	tgattcatccagctaagatctgtgg	AA000602
117298	atccagctaagatctgtggaaatcc	AA000602
117299	agagatgacctccatcttgcgaagt	AA000602
117300	catcttgcgaagtccccaagctctt	AA000602
117301	ctcagttggccaggcaacttgtaaa	AA000602
117302	aagtcaagccagtttctttgcttgg	AA000602
117303	tcaagccagtttctttgcttggcag	AA000602
117304	cagtttctttgcttggcagcacttt	AA000602

TABLE 1

SEQ ID NO	sequence	DBAxnID
32097	tcccattgagaccctgagagttaga	W98117
32098	ccattgagaccctgagagttagaaa	W98117
32099	ttatgggacacatctgcacaggaat	W98117
32100	gggacacatctgcacaggaattttg	W98117
32101	gacacatctgcacaggaattttgtg	W98117
32102	cacatctgcacaggaattttgtgac	W98117
32103	catctgcacaggaattttgtgaccg	W98117
32104	tctctcttatccagacaccgatgtt	W98117
32105	tctcttatccagacaccgatgttat	W98117
32106	tcttatccagacaccgatgttatat	W98117
32107	gtgtattcctgtagactgtggctca	W98124
32108	tattcctgtagactgtggctcaccc	W98124
32109	tatctgtcttaccaatggaagttgg	W98124
32110	ctgtcttaccaatggaagttggagt	W98124
32111	cactcccagctgcatgcctgttaga	W98124
32112	tcccagctgcatgcctgttagatgt	W98124
32113	cagctgcatgcctgttagatgtcct	W98124
32114	ctgcatgcctgttagatgtcctgcc	W98124
32115	agatggcctagactatgggttcaag	W98124
32116	agtagcgttccactgtctagagggc	W98124
32117	agcgttccactgtctagagggctat	W98124
32118	gttccactgtctagagggctatgtg	W98124
32119	caccaatggccgagtgaagggagaa	W98124
32120	agaatacacattccaaaaggagatt	W98124
32121	atacacattccaaaaggagattaca	W98124
32122	gattacatactcttgccgtgaaggg	W98124
32123	tacatactcttgccgtgaagggttc	W98124
32124	atactcttgccgtgaagggttcata	W98124
32125	gagtcgtatctgtcttaccaatgga	W98124
32126	tcgtatctgtcttaccaatggaagt	W98124
32127	acaggctttgctactggagcagcga	U40342
32128	agctgtgcatgcagattctgcagaa	U40342
32129	atatttgactgttaccatcactgtt	U40342
32130	gactgttaccatcactgttaaagcc	U40342
32131	taccatcactgttaaagccttcaca	U40342
32132	cactgttaaagccttcacagtattg	U40342
32133	cttcacagtattgtctcttacttat	U40342
32134	agtattgtctcttacttatgtagac	U40342
32135	gtctcttacttatgtagacatgaaa	U40342
32136	tgtgattcagtcacaaacttctgct	U40342
32137	tcagtcacaaacttctgcttgctac	U40342
32138	ttctgcttgctacaaatcagcttat	U40342
32139	gggcacctctgaaaactgggctgct	U40342
32140	ctctgaaaactgggctgctgttgat	U40342
32141	ttgttaccacgacagagtcttaaat	U40342
32142	cttaaatgacacactgcacacacgt	U40342
32143	tgacacactgcacacacgtacatgc	U40342
32144	actgcacacacgtacatgcacaccg	U40342
32145	cacaccgcacacagacatgatctgg	U40342
32146	gcacacagacatgatctgggacatg	U40342
32147	agcttctctgacttcgagcagcact	W98100
32148	ttctctgacttcgagcagcacttcc	W98100
32149	ttattgatttggctggttcagagga	W98100
32150	ttgatttggctggttcagaggacaa	W98100
32151	atttggctggttcagaggacaaccg	W98100
32152	cagaggacaaccgtcgcacaggcaa	W98100
32153	acaaccgtcgcacaggcaaccaggg	W98100
32154	accgtcgcacaggcaaccagggcat	W98100
32155	gtcgcacaggcaaccagggcattcg	W98100
32156	gcaaccagggcattcggctcaaaga	W98100
32157	accagggcattcggctcaaagagag	W98100
32158	tctttgtactgggcaaagtggtgga	W98100
32159	gacttcgagcagcacttccttccag	W98100
32160	gagcagcacttccttccagccagta	W98100
32161	cacttccttccagccagtagaaatc	W98100
32162	aaccagcgctcttcccgtagtcacg	W98100
32163	cgtagtcacgcaggctcttggtcaa	W98100
32164	gcaggctcttggtcaaggtagatca	W98100
74701	agctacacaggcccagaggacacaa	U56773
74702	acaggcccagaggacacaagtaggt	U56773
74703	ggagctagctcccctgagagctaga	U56773
74704	gctagctcccctgagagctagataa	U56773
74705	atatatctgcagtctgtgagtctat	U56773
74706	tctgtgagtctattcctcagaactt	U56773
74707	aaagtagctgttgtgcttgtaaatt	U56773
74708	actcctcagtagcccaaaggcatca	U56773
74709	cagtagcccaaaggcatcaggtgtg	U56773
74710	ggctcactctggcaaaggagagagg	U56773
74711	tcactctggcaaaggagagagggca	U56773
74712	agtggaccctgctgttctcagaatg	U56773
74713	gtgaacacagacagggccagccaaa	U56773
74714	acagacagggccagccaaagaactt	U56773
74715	agggccagccaaagaacttgataga	U56773
74716	tccagctcagccatgccaaccgtat	AA073283
74717	agctcagccatgccaaccgtatggc	AA073283
74718	gtatggctgctgaggcccagaaaca	AA073283
74719	atggctgctgaggcccagaaacaag	AA073283
74720	tggctgctgaggcccagaaacaagt	AA073283
74721	ctgaggcccagaaacaagtgaagag	AA073283
74722	tgaagagcctccagagtctgctgaa	AA073283
74723	aagagcctccagagtctgctgaagg	AA073283
74724	agagcctccagagtctgctgaagga	AA073283
74725	agcctccagagtctgctgaaggaca	AA073283
74726	gcctccagagtctgctgaaggacac	AA073283
74727	ctccagagtctgctgaaggacactc	AA073283
74728	ctcagccatgccaaccgtatggctg	AA073283
74729	tcagccatgccaaccgtatggctgc	AA073283
74730	gccatgccaaccgtatggctgctga	AA073283
74731	catgccaaccgtatggctgctgagg	AA073283
74732	gccaaccgtatggctgctgaggccc	AA073283
74733	ccaaccgtatggctgctgaggccca	AA073283
74734	accgtatggctgctgaggcccagaa	AA073283
74735	cgtatggctgctgaggcccagaaac	AA073283
74736	aattaaaccctgtggctacaggatg	AA073286
74737	accctgtggctacaggatggcctgc	AA073286
74738	ttaccagactctgttgctcaactct	AA073286
74739	ccagactctgttgctcaactctgat	AA073286
74740	gttgctcaactctgatagagtcatt	AA073286
74741	gctcaactctgatagagtcatttt	AA073286
74742	ccacaagtctgaactcagctaccct	AA073286
74743	tcccatacaagactggcgtgaggat	AA073286
74744	catacaagactggcgtgaggatctg	AA073286
74745	agactggcgtgaggatctgaaagac	AA073286
74746	atagatcgctggacactggccctgc	AA073286
74747	gatcgctggacactggccctgccag	AA073286
74748	tggctacaggatggcctgcttgtct	AA073286
74749	acactggccctgccagagaacacat	AA073286
74750	ctgcttgtctgctataacgttactt	AA073286
74751	cttgtctgctataacgttacttgtc	AA073286
74752	tgctataacgttacttgtcaaggat	AA073286
74753	aacgttacttgtcaaggatgtagat	AA073286
74754	ggtgcacaccctagaaaatatggat	AA073286
74755	ggatcagccctgatggatgagtcat	AA073286
74756	tcattaccagactctgttgctcaac	AA073286
74757	gtctcaaaattctgtgacagatttt	AA073986
74758	taataacttaaaactgccacacaca	AA073986
74759	cttccaccactgattaagactgggg	AA073986
74760	aatattcatttagccttctgagctt	AA073986
74761	ttcatttagccttctgagctttctg	AA073986
74762	catttagccttctgagctttctgtg	AA073986
74763	tagccttctgagctttctgtgcaga	AA073986
74764	gccttctgagctttctgtgcagaca	AA073986
74765	cttctgagctttctgtgcagacatg	AA073986
74766	tctgagctttctgtgcagacatggt	AA073986
74767	tgagctttctgtgcagacatggtga	AA073986
74768	agctttctgtgcagacatggtgaca	AA073986
117305	ttggcagcactttcttgtaaaccaa	AA000602
117306	gcagcactttcttgtaaaccaataa	AA000602
117307	tcttgtaaaccaataactaagacag	AA000602
117308	tacagatcgccggtcctcccaggag	AA000602
117309	ggcacgaacttccgccgactgcgtc	W17956
117310	cagtccgggcacgcgtaaggcttct	W17956
117311	ctgcgcaaagcgcgcccacagtgtg	W17956
117312	gcgcaaagcgcgcccacagtgtgcg	W17956
117313	caaagcgcgcccacagtgtgcgcat	W17956
117314	aaagcgcgcccacagtgtgcgcatc	W17956
117315	cgcccacagtgtgcgcatcgtacgg	W17956
117316	cccacagtgtgcgcatcgtacggct	W17956
117317	ccacagtgtgcgcatcgtacggctt	W17956
117318	gcatcgtacggcttctctccggtgt	W17956
117319	catcgtacggcttctctccggtgtg	W17956
117320	tcgtacggcttctctccggtgtgac	W17956
117321	tccgggcacgcgtaaggcttctcgc	W17956
117322	cacgcgtaaggcttctcgcccgtgt	W17956
117323	acgcgtaaggcttctcgcccgtgtg	W17956
117324	cgtaaggcttctcgcccgtgtgcac	W17956
117325	taaggcttctcgcccgtgtgcacgc	W17956
117326	attggagctctgcgcaaagcgcgcc	W17956
117327	agctctgcgcaaagcgcgcccacag	W17956
117328	tctgcgcaaagcgcgcccacagtgt	W17956
117329	agccggctaccagcgccccaagaag	L17076
117330	caagaagacacggcttctgaggcag	L17076
117331	gatgccagtctatagcgggtaccag	L17076
117332	tctccccatgcatcctagccagtga	L17076
117333	tcctagccagtgagtgctacatcct	L17076
117334	agtgctacatcctttgcaagtggag	L17076
117335	acatcctttgcaagtggagttactg	L17076
117336	gcattcttcctgtctgcactgcctg	L17076
117337	ttcctgtctgcactgcctgggccaa	L17076
117338	tctgcactgcctgggccaaggggca	L17076
117339	ctgcctgggccaaggggcagaaaca	L17076
117340	actctgctcttcttccccaggacat	L17076
117341	gtccaaactcgagatgatggtgatg	L17076
117342	ggactgctaacacatagcgaggagg	L17076
117343	gagcacagccaggacacagatgcag	L17076
117344	agccaggacacagatgcagaagatg	L17076
117345	cattggccaccagcagaagggcatc	L17076
117346	gggcatcactgtctcaggcctcaag	L17076
117347	gccaggcacccatctctggatgcca	L17076
117348	cacccatctctggatgccagtctat	L17076
117349	caagctacgagtgctgctgaagctt	M63630
117350	acgagtgctgctgaagctttttgtg	M63630
117351	gctaaacatctcttgagaaagatag	M63630
117352	gttgcctagctaaacagtgaatgga	M63630
117353	atttcaaattgtgtgtccaaattgg	M63630
117354	tcttccctaagctccacagaagtgt	M63630
117355	ctaagctccacagaagtgtatccca	M63630
117356	tccacagaagtgtatcccatgaagg	M63630
117357	cattgcttccctctagagattacta	M63630
117358	ttccctctagagattactaccatgc	M63630
117359	ccacctgcctctgtgttaagagata	M63630
117360	tttctgatccatttgtaccaataaa	M63630
117361	gaagcttttgtgctgtgaaaggag	M63630
117362	ggccctgaatcttctgccttccagg	M63630
117363	tctgccttccaggctttaaaagtct	M63630
117364	tattataggcgcacacagttcctta	M63630
117365	aggcgcacacagttccttaacatag	M63630
117366	acacagttccttaacatagtggttg	M63630
117367	ttccttaacatagtggttgacgatg	M63630
117368	gacgatgctaaacatctcttgagaa	M63630
117369	tgagcgtccttcactcggcctcggc	W75747
117370	gagcgtccttcactcggcctcggcg	W75747
117371	cgcctctgaggcaaacctggtggac	W75747
117372	gcctctgaggcaaacctggtggacc	W75747

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
32165	tagatcagcgtgaacgtttgactcc	W98100	74769	aacttaaaactgccacacacataga	AA073986	117373	gcaaacctggtggacctccagaaga	W75747
32166	aactctaccttattgatttggctgg	W98100	74770	cttaaaactgccacacacatagaaa	AA073986	117374	acctggtggacctccagaagaagct	W75747
32167	gaaggtcttctccatttatgaggta	M72414	74771	gtccacaacattctttccttctgaa	AA073986	117375	ctggtggacctccagaagaagctgg	W75747
32168	atcttgacactgaatccctagctct	M72414	74772	ccacaacattctttccttctgaagg	AA073986	117376	tggtggacctccagaagaagctgga	W75747
32169	ccattggccaaggattagagaaagg	M72414	74773	ttccttctgaaggttttacgatgca	AA073986	117377	ggacctccagaagaagctggaagag	W75747
32170	agctccctggaaggatcccacgagc	M72414	74774	ttatcattaaccagtcttttactat	AA073986	117378	gacctccagaagaagctggaagagc	W75747
32171	ggatcccacgagccagagaacctga	M72414	74775	gttctgagaccgttcttccaccact	AA073986	117379	acctccagaagaagctggaagagct	W75747
32172	cacgagccagagaacctgagaaggc	M72414	74776	ttcttccaccactgattaagactgg	AA073986	117380	agcgtccttcactcggcctcggcgt	W75747
32173	ctggtctagcagcttgggaccacag	M72414	74777	cactgcaagcgattgtccaattcta	L38971	117381	agccccgatgctggcccggagaagc	W75747
32174	accacaggccatgtgatgtgcatac	M72414	74778	aattctacttttaattgacattgctt	L38971	117382	tgttaccggactcactatcaaccct	W75747
32175	tatagtttgctcatggcttagccat	M72414	74779	tctttattatgttcaactctcctga	L38971	117383	ggactcactatcaaccctaccatcg	W75747
32176	ttgctcatggcttagccattaccca	M72414	74780	ttatgttcaactctcctgatttcag	L38971	117384	ccaccagcgagggcgcctctgaggc	W75747
32177	atggcttagccattacccatgtctg	M72414	74781	acatttttgcatttctatcaggtgc	L38971	117385	caccagcgagggcgcctctgaggca	W75747
32178	tagccattacccatgtctgtaaatg	M72414	74782	ttctatcaggtgctgtgtaacgaat	L38971	117386	ggcgcctctgaggcaaacctggtgg	W75747
32179	tagctctctaagcacacacaaagaa	M72414	74783	tgtaatgattctttctcactgatat	L38971	117387	gcgcctctgaggcaaacctggtgga	W75747
32180	cacacacaaagaattgctgggacct	M72414	74784	gattctttctcactgatatctgtat	L38971	117388	cacctaccaggcaaccatcgggatt	W18385
32181	actaagcttggagcctgcattgtct	M72414	74785	ttctcactgatatctgtattgtgaa	L38971	117389	ccaggcaaccatcgggattgacttc	W18385
32182	gcctgcattgtctgtattttgcagc	M72414	74786	ttgtgaaatccacagaactgtacag	L38971	117390	catccgagactccacggtggctgtg	W18385
32183	attgtctgtattttgcagcaatagg	M72414	74787	aatccacagaactgtacaggtgctg	L38971	117391	atatgacattactaatctcaactcc	W18385
32184	aggtacttgctaccctccttgatgt	M72414	74788	tatgaattctacaaccctataataa	L38971	117392	tgacattactaatctcaactccttc	W18385
32185	ttgctaccctccttgatgttgatct	M72414	74789	actttaattgacattgcttgctgtt	L38971	117393	cattactaatctcaactccttccag	W18385
32186	ccctccttgatgttgatcttagggc	M72414	74790	gaatgtgtcatcttaccatcctgac	L38971	117394	taatctcaactccttccagcagact	W18385
32187	ttcctgcggcgccttagggaccatg	W99104	74791	gtcatcttaccatcctgacaataaa	L38971	117395	caactccttccagcagacttctaaa	W18385
32188	gccttagggaccatggccgatcctc	W99104	74792	ttaccatcctgacaataaagcccat	L38971	117396	ccagcagacttctaaatggattgat	W18385
32189	actacgccattaagaagcaggcaga	W99104	74793	tcctgacaataaagcccatcctctg	L38971	117397	tgacgtgatcatcatgcttgtgggt	W18385
32190	ctacgccattaagaagcaggcagag	W99104	74794	agcaagctctttccaacatcacttg	L38971	117398	cgtgatcatcatgcttgtgggtaac	W18385
32191	atactgatcttcagcagatattaga	W99104	74795	ctctttccaacatcacttggctaga	L38971	117399	catcatgcttgtgggtaacaagacg	W18385
32192	tactgatcttcagcagatattagaa	W99104	74796	tcacttggctagagcatgctttaaa	L38971	117400	tgacttcttgtcaaaaaccatgtac	W18385
32193	actgatcttcagcagatattagaaa	W99104	74797	tctaatcatcaggcgagcatatgag	X92864	117401	cttcttgtcaaaaaccatgtacttg	W18385
32194	ctgatcttcagcagatattagaaag	W99104	74798	ttaagcatatgcggctgtaatgata	X92864	117402	agaccgtacggttcgactgcagctc	W18385
32195	tgatcttcagcagatattagaaagt	W99104	74799	tggcttcacatggctttctctcagt	X92864	117403	tacggttcgactgcagctctgggac	W18385
32196	atcttcagcagatattagaaagtga	W99104	74800	cacatggctttctctcagtactccc	X92864	117404	ggttcgactgcagctctgggacact	W18385
32197	ccttagggaccatggccgatcctcg	W99104	74801	gctttctctcagtactcccttatg	X92864	117405	tcgactgcagctctgggacactgct	W18385
32198	cttagggaccatggccgatcctcgc	W99104	74802	tctcagtactcccttatgcccacg	X92864	117406	cagctacatccgagactccacggtg	W18385
32199	gagagaactacgccattaagaagca	W99104	74803	gaccctgtgtatacaccaaatgatg	X92864	117407	ctacatccgagactccacggtggct	W18385
32200	agagaactacgccattaagaagcag	W99104	74804	caggtctaccctctgcttgtcccag	X92864	117408	gttgatcacctttatttgacgtatc	W29403
32201	gagaactacgccattaagaagcagg	W99104	74805	ctgcttgtcccagaacgccattgac	X92864	117409	gatcacctttatttgacgtatctat	W29403
32202	agaactacgccattaagaagcaggc	W99104	74806	gtcccagaacgccattgacattgac	X92864	117410	tcccggaacacgcccagcatggtgc	W29403
32203	gaactacgccattaagaagcaggca	W99104	74807	ttttatcttgaccacactgtacagt	X92864	117411	aacacgcccagcatggtgctagtga	W29403
32204	aactacgccattaagaagcaggcag	W99104	74808	cttgaccacactgtacagtaacatc	X92864	117412	cccagcatggtgctagtgacagtct	W29403
32205	atggagacagcggctgcgcacactc	AA108571	74809	aatgataaccacttgcttaggcagg	X92864	117413	ctagtgacagtcttgctgttcattt	W29403
32206	gctgcgcacactccagtccatagct	AA108571	74810	acactgtacagtaacatccaagagc	X92864	117414	gtgacagtcttgctgttcattttct	W29403
32207	gcaaacaccatggacgtcttcaaga	AA108571	74811	aaccacttgcttaggcaggcactga	X92864	117415	ctgttcattttctgcacgcctcgca	W29403
32208	aacaccatggacgtcttcaagaaag	AA108571	74812	ttgcttaggcaggcactgagctgag	X92864	117416	ttcattttctgcacgcctcgcatta	W29403
32209	accatggacgtcttcaagaaaggct	AA108571	74813	tgattctgttactctaattctacaa	X92864	117417	tgcacgcctcgcattaccatgcaca	W29403
32210	ttcaagaaaggcttctccattgcca	AA108571	74814	tcttactaacattcctgtgacatcc	X92864	117418	acgcctcgcattaccatgcacatgt	W29403
32211	ggcttctccattgccaaggaaggtg	AA108571	74815	gggttcattgtctgccatatgacta	X92864	117419	cctcgcattaccatgcacatgtgtg	W29403
32212	ttctccattgccaaggaaggtgttg	AA108571	74816	attgtctgccatatgactatgtttc	X92864	117420	gtgtaccaactgaaactggaatgta	W29403
32213	tatgtgggcaccaaaaccaaggaga	AA108571	74817	ctacagatattctcagcatgaggat	X92864	117421	acagataacagccgcagcagcgggg	W29403
32214	caaagtgtcacctcagtggctgaga	AA108571	74818	tccaacagtgcccatggactactct	AA073296	117422	gataacagccgcagcagcggggtct	W29403
32215	agtgtcacctcagtggctgagaaga	AA108571	74819	aacagtgcccatggactactcttgg	AA073296	117423	cgcagcagcggggtctgcaaaccag	W29403
32216	caggccaatgccgtgagtgaagctg	AA108571	74820	catgaccagcatctgtgatgagcga	AA073296	117424	ggaagctcagctcagctcctgatta	W29403
32217	gcgcacactccagtccatagcttgc	AA108571	74821	catttatgcgggcatgccatcaccg	AA073296	117425	agctcagctcagctcctgattagtg	W29403
32218	cacactccagtccatagcttgcagc	AA108571	74822	ctctggttccagagaaggttgccca	AA073296	117426	cagctcctgattagtgtgaggaact	W29403
32219	gtccatagcttgcagcagccaggtt	AA108571	74823	aagtattcctgccagttcattgaga	AA073296	117427	ctcctgattagtgtgaggaactcct	W29403
32220	catagcttgcagcagccaggttcca	AA108571	74824	tattcctgccagttcattgagatgt	AA073296	117428	ttcgatattcgggactgagaaggac	W51028
32221	ttgcagcagccaggttccatccttg	AA108571	74825	atgtgtctgatggtcacagctgatc	AA073296	117429	atattcgggactgagaaggacaagt	W51028
32222	cagccaggttccatccttgcaaaca	AA108571	74826	tgtctgatggtcacagctgatcacg	AA073296	117430	ttaagattggggcctgccggcacgg	W51028
32223	ggttccatccttgcaaacaccatgg	AA108571	74827	atggtcacagctgatcacgggccag	AA073296	117431	ttcacaacaaaccgactttcagcca	W51028
32224	tccatccttgcaaacaccatggacg	AA108571	74828	gtcacagctgatcacgggccagctg	AA073296	117432	cacaacaaaccgactttcagccaga	W51028
32225	gcactcgacttattcgattacatgc	W98032	74829	acagctgatcacgggccagctgtct	AA073296	117433	accgactttcagccagaccatacgt	W51028
32226	ttattcgattacatgcttgccttgg	W98032	74830	agtgcccatggactactcttgggcc	AA073296	117434	cgactttcagccagaccatacgtcc	W51028
32227	gctgagcaggctcttcagtgtgagt	W98032	74831	gctgatcacgggccagctgtctctg	AA073296	117435	tcagccagaccatacgtcctgctca	W51028
32228	gagcaggctcttcagtgtgagttcc	W98032	74832	catggactactcttgggccagagag	AA073296	117436	ccagaccatacgtcctgctcaactt	W51028
32229	caggctcttcagtgtgagttcctgc	W98032	74833	ggactactcttgggccagagagctg	AA073296	117437	agaccatacgtcctgctcaacttgt	W51028
32230	cttcagtgtgagttcctgcgagacg	W98032	74834	ctactcttgggccagagagctgggt	AA073296	117438	catacgtcctgctcaacttgtaccg	W51028
32231	tgtgagttcctgcgagacgtggaac	W98032	74835	tttgatccgaaaacctgcctcattc	AA073296	117439	tacgtcctgctcaacttgtaccgga	W51028
32232	ccagaccttcctttgtggcaagatt	W98032	74836	ccgaaaacctgcctcattcatgacc	AA073296	117440	gcctctcagggagccggggcacttg	W51028

TABLE 1

SEQ ID NO	sequence	DBAxnID
32233	gaccttcctttgtggcaagattgtc	W98032
32234	cttcctttgtggcaagattgtcatg	W98032
32235	actgatgatctttccacaatccaag	W98032
32236	gatgatctttccacaatccaagccc	W98032
32237	ttcgattacatgcttgccttggatc	W98032
32238	tacatgcttgccttggatcccagta	W98032
32239	atgcttgccttggatcccagtaagc	W98032
32240	cttgccttggatcccagtaagcgct	W98032
32241	ttggatcccagtaagcgctgcactg	W98032
32242	gatcccagtaagcgctgcactgctg	W98032
32243	cccagtaagcgctgcactgctgagc	W98032
32244	tgcactgctgagcaggctcttcagt	W98032
32245	ctcaggcattgcagctctttgagtc	U34691
32246	agctctttgagtcccacgcaggaca	U34691
32247	agctggcccaggctggctatgaggt	U34691
32248	cctgtgccttgtatgcatctgagga	U34691
32249	aagagatcggtcggctggtgcagca	U34691
32250	atgctgtacacaaacattcacgcct	U34691
32251	tacacaaacattcacgcctgcttcg	U34691
32252	aacattcacgcctgcttcgacagaa	U34691
32253	cacgcctgcttcgacagaattgagt	U34691
32254	attgagtacatgcctttctgctcaa	U34691
32255	tacatgcctttctgctcaagtgcca	U34691
32256	cctttctgctcaagtgccaccaaca	U34691
32257	gcaccgagctcttcagcaagtttgc	U34691
32258	agctcttcagcaagtttgcactgcc	U34691
32259	tcagcaagtttgcactgccctacat	U34691
32260	agtttgcactgccctacattcgtga	U34691
32261	cagtgcccatgatcatctttgctaa	U34691
32262	ccatgatcatctttgctaaggatgg	U34691
32263	tcatctttgctaaggatggacattt	U34691
32264	gacattttgccctggaagagctggc	U34691
32265	ttaagtcatgtttgtgctgctggtg	U32329
32266	tgtgctgctggtgccaaacgtttga	U32329
32267	gttctgacgctcaacaccggatata	U32329
32268	acgctcaacaccggatatattcacg	U32329
32269	attcttagtcagcacttcagcagag	U32329
32270	agtcagcacttcagcagagctctta	U32329
32271	cacttcagcagagctcttaaaagcc	U32329
32272	ccctagtgcgttcacatgccactta	U32329
32273	tgcgttcacatgccacttacgttta	U32329
32274	ctgaagttctgttcaggagtttatt	U32329
32275	gtttattatccagtcctatgaatct	U32329
32276	tatccagtcctatgaatctggattc	U32329
32277	agcagtccttggaggagaagcagtc	U32329
32278	cctgcctgaagttcaaagccaacga	U32329
32279	tcaaagccaacgatcacggatatga	U32329
32280	ccaacgatcacggatatgacaactt	U32329
32281	gatatgacaacttccggtccagcaa	U32329
32282	acagctcgtcttgaaggcaagaaca	U32329
32283	cgaatctcactgtcctcattgtgga	U32329
32284	tcactgtcctcattgtggacagata	U32329
32285	cgtgcttgacctcaagctggcagcc	AA050824
32286	tgcttgacctcaagctggcagccga	AA050824
32287	tgtgcgccagaaacggcggatctac	AA050824
32288	tgcgccagaaacggcggatctacga	AA050824
32289	aaggcatcggtctgatcgagaagaa	AA050824
32290	ggcatcggtctgatcgagaagaaat	AA050824
32291	caggttgcaatacccgggagatcgc	AA050824
32292	ggttgcaatacccgggagatcgctg	AA050824
32293	gcaatacccgggagatcgctgacaa	AA050824
32294	gagcatccggaatgtcactgaggac	AA050824
32295	atccggaatgtcactgaggacgtcc	AA050824
32296	aatgtcactgaggacgtccagaaca	AA050824
32297	acctcaagctggcagccgacactct	AA050824
32298	tgtcactgaggacgtccagaacagc	AA050824
32299	ctcaagctggcagccgacactcttg	AA050824
32300	caagctggcagccgacactcttgct	AA050824
74837	ctcattcatgaccagcatctgtgat	AA073296
74838	attcatgaccagcatctgtgatgag	AA073296
74839	atccagaagggcatcgctgagaaga	AA073304
74840	ctaatgaatcctgaagcccagctgc	AA073304
74841	ctgcagcagcagagccctgagcata	AA073304
74842	acccatcctgagctcactgttgctg	AA073304
74843	cctgagctcactgttgctgtggaga	AA073304
74844	tcatccgtggccctcatcaacaggg	AA073304
74845	ctcatcaacagggcgctggagtcag	AA073304
74846	gacatgaccactgtgtggaagcagc	AA073304
74847	atgaccactgtgtggaagcagctga	AA073304
74848	cagctgagcagctcagttacgggcc	AA073304
74849	ctgagcagctcagttacgggcctta	AA073304
74850	tcagttacgggccttaccaacatcg	AA073304
74851	atgaatcctgaagcccagctgcccc	AA073304
74852	cctgaagcccagctgccccaggtgt	AA073304
74853	gcccagctgccccaggtgtatccat	AA073304
74854	ctgccccaggtgtatccatttgcag	AA073304
74855	ccccaggtgtatccatttgcagccg	AA073304
74856	tatccatttgcagccgatctctatc	AA073304
74857	ccatttgcagccgatctctatcaga	AA073304
74858	gccgatctctatcagaaggagttgg	AA073304
74859	acctgaccggaactccttcatgata	AA073341
74860	cctgaccggaactccttcatgatag	AA073341
74861	cttcatgatagactctcgttctttg	AA073341
74862	ttcatgatagactctcgttctttgt	AA073341
74863	catgatagactctcgttctttgtgg	AA073341
74864	atgatagactctcgttctttgtggg	AA073341
74865	gatagactctcgttctttgtggggc	AA073341
74866	atagactctcgttctttgtggggca	AA073341
74867	agactctcgttctttgtggggcatg	AA073341
74868	gactctcgttctttgtggggcatgt	AA073341
74869	ctctcgttctttgtggggcatgtct	AA073341
74870	tctcgttctttgtggggcatgtctc	AA073341
74871	tgaccggaactccttcatgatagac	AA073341
74872	ctcgttctttgtggggcatgtctcc	AA073341
74873	gaccggaactccttcatgatagact	AA073341
74874	ccggaactccttcatgatagactct	AA073341
74875	cggaactccttcatgatagactctc	AA073341
74876	gaactccttcatgatagactctcgt	AA073341
74877	aactccttcatgatagactctcgtt	AA073341
74878	ctccttcatgatagactctcgttct	AA073341
74879	tccttcatgatagactctcgttctt	AA073341
74880	caagtcttctatccacagctactga	X15475
74881	tatccacagctactgaggcctcagc	X15475
74882	ggcctcttcccgatgcataggtgtg	X15475
74883	ccatagctttcttgtccttgtaaga	X15475
74884	tagctttcttgtccttgtaagaggt	X15475
74885	tcttgtccttgtaagaggtggataa	X15475
74886	aagatacccaggacagcaaatctac	X15475
74887	atacccaggacagcaaatctactca	X15475
74888	acagcaaatctactcaagaatgacc	X15475
74889	gcaaatctactcaagaatgacccca	X15475
74890	aatctactcaagaatgaccccatgg	X15475
74891	gtgggactcactctgagtcaaataa	X15475
74892	ccacagctactgaggcctcagccag	X15475
74893	aggcctcagccagagctctgaccct	X15475
74894	cagccagagctctgaccctgatctc	X15475
74895	tgaccctgatctcagcctattccta	X15475
74896	cagcctattcctaagcttggccctc	X15475
74897	tctgtatccagtcctgctctgcatg	X15475
74898	gtatccagtcctgctctgcatgcca	X15475
74899	agcgccagcctgatccagaggctgg	X15475
74900	ctctcccagcatatgctggcatctc	U15566
74901	atgctggcatctcagggaatcccaa	U15566
74902	aatagccgtgagcccagtccgctgc	U15566
74903	tcgcccagcggctcagccaaagagg	U15566
74904	cccagcggctcagccaaagaggcgg	U15566
117441	cagtgttcgtgggatgcccggcctt	W51028
117442	tttacctctgtctttgcacctcttc	W51028
117443	tacctctgtctttgcacctcttcca	W51028
117444	tgtctttgcacctcttccagtctta	W51028
117445	tctttgcacctcttccagtcttaac	W51028
117446	tgcacctcttccagtcttaactgct	W51028
117447	cctcttccagtcttaactgctcttt	W51028
117448	gctaagcccaaagcaaaaagggcag	L04141
117449	aagcccaagaaggctgcggggacag	L04141
117450	gctgcagctgcaggagccaaaaaag	L04141
117451	ctgcagctgcaggagccaaaaaagc	L04141
117452	gctaagaaggcgcccaagagccctg	L04141
117453	agaaggcgcccaagagccctgccaa	L04141
117454	aaggcgcccaagagccctgccaagg	L04141
117455	gcgcccaagagccctgccaaggcga	L04141
117456	cgcccaagagccctgccaaggcgaa	L04141
117457	acctccaagcctaaggcagctaagc	L04141
117458	cctccaagcctaaggcagctaagcc	L04141
117459	tccaagcctaaggcagctaagccaa	L04141
117460	agcccaagaaggctgcggggacagc	L04141
117461	cccaagaaggctgcggggacagcca	L04141
117462	accgccaagaagagcaccaagaaga	L04141
117463	gcaccaagaagactccaaagaaagc	L04141
117464	aagccagctgcagctgcaggagcca	L04141
117465	agccagctgcagctgcaggagccaa	L04141
117466	ccagctgcagctgcaggagccaaaa	L04141
117467	cagctgcagctgcaggagccaaaaa	L04141
117468	aatcagaaagactgcccatatatgt	W53188
117469	atcagaaagactgcccatatatgtg	W53188
117470	caaactttcacaggcagctgttctg	W53188
117471	aactttcacaggcagctgttctgtt	W53188
117472	actttcacaggcagctgttctgttg	W53188
117473	tttcacaggcagctgttctgttggc	W53188
117474	acaggcagctgttctgttggctcga	W53188
117475	ggcagctgttctgttggctcgataa	W53188
117476	cagctgttctgttggctcgataaat	W53188
117477	agctgttctgttggctcgataaatg	W53188
117478	ctgttctgttggctcgataaatggg	W53188
117479	tgttctgttggctcgataaatgggt	W53188
117480	cagaaagactgcccatatatgtgtg	W53188
117481	aagactgcccatatatgtgtgcata	W53188
117482	actgcccatatatgtgtgcatacaa	W53188
117483	tgcccatatatgtgtgcatacaaac	W53188
117484	catacaaactggttactgtcaagtt	W53188
117485	ctgtttacaaactttcacaggcagc	W53188
117486	tgtttacaaactttcacaggcagct	W53188
117487	ttacaaactttcacaggcagctgtt	W53188
117488	accttcggtgtcggagctcatcgtg	L26164
117489	ggagctcatcgtgcaggcagtttct	L26164
117490	taagaagactgctggggctgcagct	L26164
117491	gactgtcaagactccgaagaagccc	L26164
117492	gaagcccaagaagcctgcagtttcc	L26164
117493	caagaagcctgcagtttccaagaag	L26164
117494	gacttccaagagccccaagaagccg	L26164
117495	agccaaaagccctgccaaggcgaag	L26164
117496	taaggcttccaaggcgaaagtgaca	L26164
117497	gacaaagccaaagaccccagctaag	L26164
117498	gccaaagaccccagctaagcccaag	L26164
117499	gaccccagctaagcccaagaaggca	L26164
117500	catcgtgcaggcagtttcttcttcc	L26164
117501	agtttcttcttccaaagagcgcagt	L26164
117502	taaaggcacactggtgcagaccaag	L26164
117503	tgctggctcttttaagctgaacaag	L26164
117504	ctcttttaagctgaacaagaaggct	L26164
117505	caaggccatcaccaccaaggtgtca	L26164
117506	caccaaggtgtcagtgaaggcgaaa	L26164
117507	agcatccggggctgctaagaaacct	L26164
117508	gcacaatggctatgaccctagggcg	W18057

TABLE 1

SEQ ID NO	sequence	DBAxnID
32301	ctggcagccgacactcttgctgtgc	AA050824
32302	cagccgacactcttgctgtgcgcca	AA050824
32303	gccgacactcttgctgtgcgccaga	AA050824
32304	tcttgctgtgcgccagaaacggcgg	AA050824
32305	ttgctgtgcgccagaaacggcggat	AA050824
32306	gcaccaggcaggtctgggaaacaag	U32330
32307	cgctgcacgtgcttcacttacaagg	U32330
32308	gacaaggcctgtgcacacttctgtg	U32330
32309	gcctgtgcacacttctgtgcacgca	U32330
32310	gcacacttctgtgcacgcaccagag	U32330
32311	gcacgcaccagagatgtcaccagtt	U32330
32312	accagagatgtcaccagttattccg	U32330
32313	ccttagctggatctaacaggccaca	U32330
32314	ctggatctaacaggccacaactgat	U32330
32315	ctaacaggccacaactgatgcttct	U32330
32316	ttgcttcctgcagtggacttcacct	U32330
32317	cctgcagtggacttcacctgctctc	U32330
32318	ttcacttacaaggacaaggagtgtg	U32330
32319	atctggattaacactcctgaacaga	U32330
32320	attaacactcctgaacagactgtgc	U32330
32321	actcctgaacagactgtgccctatg	U32330
32322	actgtgccctatggactgtccaact	U32330
32323	ccctatggactgtccaactacagag	U32330
32324	ggactgtccaactacagagaaagcc	U32330
32325	tggacacgcttgcgttgtacttgta	U32330
32326	tgagagcccagcctgataccctacg	W98314
32327	gagcccagcctgataccctacggcg	W98314
32328	actgcaacaagacggcgtcaaggag	W98314
32329	gcaacaagacggcgtcaaggaggtg	W98314
32330	gcggtcctgcatcctcttgtgaccc	W98314
32331	ctgcatcctcttgtgaccctggcac	W98314
32332	catcctcttgtgaccctggcactca	W98314
32333	cctcttgtgaccctggcactcagct	W98314
32334	gtgaccctggcactcagcttggagg	W98314
32335	accctggcactcagcttggaggcta	W98314
32336	ctggcactcagcttggaggctatcc	W98314
32337	caccaattgtgccttggcgccttgt	W98314
32338	ctgataccctacggcgcctcaagga	W98314
32339	cacagcagggccaggcactggcaag	W98314
32340	cactggcaagcagatccatgctgtg	W98314
32341	gatccatgctgtgcgctacctcgag	W98314
32342	ctacctcgagtgctcagcactgcaa	W98314
32343	cgagtgctcagcactgcaacaagac	W98314
32344	gtgctcagcactgcaacaagacggc	W98314
32345	ctcagcactgcaacaagacggcgtc	W98314
32346	tttccactggctgatcacctcaact	L47480
32347	ctcaactcaaccaaccatgccattg	L47480
32348	ctgagtgccatttccatgttgtacc	L47480
32349	agtgccatttccatgttgtacctgg	L47480
32350	atttccatgttgtacctggatgagt	L47480
32351	atgttgtacctggatgagtatgaca	L47480
32352	ctacacataccacacaaactgcttc	L47480
32353	ccacacaaactgcttccctatagct	L47480
32354	cacaaactgcttccctatagctgga	L47480
32355	aaactgcttccctatagctggactt	L47480
32356	cttccctatagctggacttttatct	L47480
32357	tgaccttatttatgactttacgtgc	L47480
32358	catgccattgtgcagaccctagtca	L47480
32359	gccattgtgcagaccctagtcaact	L47480
32360	gtgcagaccctagtcaactctgtta	L47480
32361	cagaccctagtcaactctgttaatt	L47480
32362	tctagtatccctaaggcctgttgtg	L47480
32363	gcctgttgtgtccccactgaactga	L47480
32364	cccactgaactgagtgccatttcca	L47480
32365	gaactgagtgccatttccatgttgt	L47480
32366	attcggaacacggcgagctggcaac	W98349
32367	ttcggaacacggcgagctggcaaca	W98349
32368	tgaaaacgctgccagaggagctgat	W98349

SEQ ID NO:	sequence	DBAxnID
74905	agcggctcagccaaagaggcggcca	U15566
74906	agtgaactgcagcgcatccagagac	U15566
74907	ctgcagcgcatccagagactggtga	U15566
74908	cgcatccagagactggtgagtgggc	U15566
74909	ctctgcctcggctgtctaggacgtg	U15566
74910	ctcggctgtctaggacgtgtacagc	U15566
74911	cgtgtacagcacagaatgggtattt	U15566
74912	gcatctcagggaatcccaatgccca	U15566
74913	ggaatcccaatgcccactttcggag	U15566
74914	tacccgtacacttacatggcagcag	U15566
74915	gctggttcattatcacggagcccat	U15566
74916	ttatcacggagcccatttctgggca	U15566
74917	cgtctgcgcttcagtccttaccaga	U15566
74918	ctgcgcttcagtccttaccagatcc	U15566
74919	cgcttcagtccttaccagatccctg	U15566
74920	ctctcaattgctattgaggccccta	AA073388
74921	attgctattgaggcccctagtacgg	AA073388
74922	gggtcatgcggtgtgtcttatattg	AA073388
74923	tatattgcacaagagcctggtaact	AA073388
74924	attgcacaagagcctggtaactacg	AA073388
74925	tatatcaagttcagcgacgaacaca	AA073388
74926	atcaagttcagcgacgaacacatcg	AA073388
74927	aagttcagcgacgaacacatcgcgg	AA073388
74928	ttcagcgacgaacacatcgcggact	AA073388
74929	agcgacgaacacatcgcggactagc	AA073388
74930	gacgaacacatcgcggactagcctt	AA073388
74931	cacatcgcggactagccttgagtgg	AA073388
74932	gaggcccctagtacggccgagatca	AA073388
74933	atcgcggactagccttgagtggtgc	AA073388
74934	gcccctagtacggccgagatcacat	AA073388
74935	cctagtacggccgagatcacattcg	AA073388
74936	acggccgagatcacattcgatgacc	AA073388
74937	gccgagatcacattcgatgaccata	AA073388
74938	gagatcacattcgatgaccataaaa	AA073388
74939	atcacattcgatgaccataaaaatg	AA073388
74940	aatgggtcatgcggtgtgtcttata	AA073388
74941	agaacttccagaacatgccaaaatc	U28419
74942	acttccagaacatgccaaaatcaat	U28419
74943	actaagcatgctacattccaagttc	U28419
74944	aagcatgctacattccaagttctct	U28419
74945	acattccaagttctctgaagattgc	U28419
74946	ttccaagttctctgaagattgctca	U28419
74947	ttgctcaacacattggcatcttgac	U28419
74948	ctcaacacattggcatcttgacatt	U28419
74949	aacacattggcatcttgacattcag	U28419
74950	acattggcatcttgacattcagctg	U28419
74951	ttggcatcttgacattcagctgtta	U28419
74952	gcatcttgacattcagctgttaaat	U28419
74953	tccagaacatgccaaaatcaatgaa	U28419
74954	ggacacatttggtcctggggatgat	U28419
74955	cacatttggtcctggggatgatgat	U28419
74956	atttggtcctggggatgatgatgaa	U28419
74957	tggtcctggggatgatgatgaaatc	U28419
74958	tgacatctaacataaactaagcatg	U28419
74959	catctaacataaactaagcatgcta	U28419
74960	taaactaagcatgctacattccaag	U28419
74961	gaattatgccaattctgaaaaattt	D90173
74962	attttacacatgtatggcaacacct	D90173
74963	ccaacgcttcattgtaccagacatt	D90173
74964	acgcttcattgtaccagacattgtc	D90173
74965	cattgtaccagacattgtccagaag	D90173
74966	tgtaccagacattgtccagaagttt	D90173
74967	accagacattgtccagaagtttcaa	D90173
74968	tgcaaaccctgaactgggctacggg	D90173
74969	gacacaactatgtgtgcccattcag	D90173
74970	acaactatgtgtgcccattcagatc	D90173
74971	atgtgtgcccattcagatcaaagta	D90173
74972	tgtgcccattcagatcaaagtactt	D90173

SEQ ID NO	sequence	DBAxnID
117509	caatggctatgaccctagggcgatg	W18057
117510	tactcacgggcagtttgatgagcgc	W18057
117511	tgagcgctatgtgttgtcctctcgg	W18057
117512	ctctcgggtacgcactggccgaagc	W18057
117513	cgatctggctggccgctactacaag	W18057
117514	tggccgctactacaagctgtctgag	W18057
117515	ccgctactacaagctgtctgagatg	W18057
117516	ctacaagctgtctgagatgacggag	W18057
117517	caagctgtctgagatgacggagcag	W18057
117518	ggatcagcaacgtctcatcgatgac	W18057
117519	tcagcaacgtctcatcgatgaccac	W18057
117520	tggctatgaccctagggcgatgaag	W18057
117521	acgtctcatcgatgaccactttctg	W18057
117522	tgaccctagggcgatgaagcatcct	W18057
117523	gaagcatcctacggacctggatgca	W18057
117524	gcatcctacggacctggatgcatcc	W18057
117525	tacggacctggatgcatccaagatt	W18057
117526	cctggatgcatccaagattactcac	W18057
117527	tgcatccaagattactcacgggcag	W18057
117528	atccaagattactcacgggcagttt	W18057
117529	cagccccggcgtctttgcttcagct	X58069
117530	cggcgtctttgcttcagcttggtgc	X58069
117531	ttaccggcctgtggacaagagttct	X58069
117532	tatacctgccgcaggcgactggcag	X58069
117533	tacaacccaaacacctagataccag	X58069
117534	ccaaacacctagataccagcacaag	X58069
117535	acctagataccagcacaagccggtg	X58069
117536	ataccagcacaagccggtgaatccc	X58069
117537	gccggtgaatccctgtctggactga	X58069
117538	gaatccctgtctggactgagcctct	X58069
117539	ctgtctggactgagcctctggcttc	X58069
117540	ttttgcagctattacaagtttacaa	X58069
117541	acttgattgccgggctttgaggagg	X58069
117542	ttgccgggctttgaggaggagaaat	X58069
117543	tggatcacattgtttcttcggtgtc	X58069
117544	tttcttcggtgtcaccgttgctggc	X58069
117545	tgctggcctcataccagttgaccct	X58069
117546	accagttgaccctgtcgccattcgt	X58069
117547	taatgtgaacccagtttctccagga	X58069
117548	agactcttaccggcctgtggacaag	X58069
117549	ttaccaatctgaaaggcaccattga	AA035902
117550	accaatctgaaaggcaccattgatg	AA035902
117551	tttgctgacctggctccacagaagc	AA035902
117552	tgctgacctggctccacagaagccg	AA035902
117553	cccacttgacacagacagatttgtg	AA035902
117554	agacagatttgtgctactggtatcc	AA035902
117555	atttgtgctactggtatccggactg	AA035902
117556	gtgctactggtatccggactgggcc	AA035902
117557	gctactggtatccggactgggcctg	AA035902
117558	tactggtatccggactgggcctggg	AA035902
117559	tgggcacccagctgctggtggacgt	AA035902
117560	cacccagctgctggtggacgtggtg	AA035902
117561	cttggccgtgttgggctctgcgaaa	AA035902
117562	cgtgttgggctctgcgaaagatgac	AA035902
117563	tgttgggctctgcgaaagatgacgg	AA035902
117564	ttgaagaccactgctttgctgacct	AA035902
117565	gaagaccactgctttgctgacctgg	AA035902
117566	agaccactgctttgctgacctggct	AA035902
117567	ctgctttgctgacctggctccacag	AA035902
117568	gctttgctgacctggctccacagaa	AA035902
117569	gacctgcgcttccagagctcggccg	M32461
117570	cgcttccagagctcggccgtcatgg	M32461
117571	gtcttattcagacgcctagcttgtt	M32461
117572	cttattcagacgcctagcttgttaa	M32461
117573	tattcagacgcctagcttgttaacc	M32461
117574	ttcagacgcctagcttgttaacccg	M32461
117575	agtaggttcaccagctcagtctaag	M32461
117576	taggttcaccagctcagtctaaggg	M32461

TABLE 1

SEQ ID NO	sequence	DBAxnID
32369	aacgctgccagaggagctgatggca	W98349
32370	gctgccagaggagctgatggcaagc	W98349
32371	ctctacccctggacctgaggagaca	W98349
32372	tctacccctggacctgaggagacac	W98349
32373	taccctggacctgaggagacacta	W98349
32374	ggagacactaacagcagccacagtt	W98349
32375	gagacactaacagcagccacagttc	W98349
32376	gacactaacagcagccacagttccc	W98349
32377	tccccggggcttgtatatagattat	W98349
32378	cggaacacggcgagctggcaacatg	W98349
32379	ggaacacggcgagctggcaacatgg	W98349
32380	acacggcgagctggcaacatgggtg	W98349
32381	acggcgagctggcaacatgggtgta	W98349
32382	agctggcaacatgggtgtaggcatg	W98349
32383	tggcagggctcaacagcaggacaaa	W98349
32384	tcaacagcaggacaaaccacctcgt	W98349
32385	ttccgaagctgaaacgcagaacgtg	W98349
32386	ggcaccccaacatttatgagaatgg	W98152
32387	gcattacaattcttcatccgcctgt	W98152
32388	ggactatcctgttaagtgtgatatc	W98152
32389	ctatcctgttaagtgtgatatcact	W98152
32390	tgatatcactgcttaatgggcacaa	W98152
32391	ttaatgggcacaacaccttatctcc	W98152
32392	ggcacaacaccttatctccagccaa	W98152
32393	acaacaccttatctccagccaaagt	W98152
32394	acaccttatctccagccaaagtgga	W98152
32395	tatctccagccaaagtggatgcttc	W98152
32396	ctccagccaaagtggatgcttcagt	W98152
32397	atgcttcagtcatgatcaggaaatg	W98152
32398	ttacaattcttcatccgcctgtaga	W98152
32399	caattcttcatccgcctgtagaatg	W98152
32400	ttcatccgcctgtagaatgaccgca	W98152
32401	atccgcctgtagaatgaccgcagag	W98152
32402	tagaatgaccgcagagtggagagct	W98152
32403	aatgaccgcagagtggagagctacc	W98152
32404	gagagctaccctctgaaaggtggga	W98152
32405	accctactcagaacgtatggactat	W98152
32406	gaccacaacttcctgtttccagaat	U10903
32407	attttgcctgaggttgtggaaatgg	U10903
32408	atgcctcagctgttgaaccacctga	U10903
32409	cagctgttgaaccacctgaaggcag	U10903
32410	ttgaaccacctgaaggcagacagac	U10903
32411	aaggcagacagactcggcagaagca	U10903
32412	gacagactcggcagaagcatcgact	U10903
32413	ctcggcagaagcatcgactggggtg	U10903
32414	agaagcatcgactggggtgtcttgg	U10903
32415	atcgactggggtgtcttggctgtct	U10903
32416	gtcttggctgtcttcacctgtgctg	U10903
32417	gctgtcttcacctgtgctgagagct	U10903
32418	gaactagattccatggcaaagcacg	U10903
32419	gattccatggcaaagcacgaatcca	U10903
32420	ataccccttgaaccagagcagattc	U10903
32421	cagattctcaggtatggaagaggga	U10903
32422	attaaacccatctggatttctggtg	U10903
32423	cccatctggatttctggtgaaaata	U10903
32424	gaattccaggtcatgcctcagctgt	U10903
32425	caggtcatgcctcagctgttgaacc	U10903
32426	tctatattcttcatcacgctgctcg	W98391
32427	atattcttcatcacgctgctcgttc	W98391
32428	gagaacgtgctacctgcacacgtgg	W98391
32429	gtgctacctgcacacgtggctgaac	W98391
32430	ctacctgcacacgtggctgaacact	W98391
32431	cctgcacacgtggctgaacacttcc	W98391
32432	gcacacgtggctgaacacttcctgg	W98391
32433	gagttgtaccaccagtcctacgatt	W98391
32434	taccaccagtcctacgattgtgtct	W98391
32435	cagtcctacgattgtgtctgtgtca	W98391
32436	gcctccattccggacttcaaggaat	W98391
74973	cacatgtatggcaacacctgatcta	D90173
74974	tatggcaacacctgatctatcggtt	D90173
74975	ggcaacacctgatctatcggttatc	D90173
74976	aacacctgatctatcggttatccaa	D90173
74977	tgatctatcggttatccaacgcttc	D90173
74978	tctatcggttatccaacgcttcatt	D90173
74979	atcggttatccaacgcttcattgta	D90173
74980	tatccaacgcttcattgtaccagac	D90173
74981	tctggctacaccgtcacaaggctca	U08030
74982	tacaccgtcacaaggctcagcgcat	U08030
74983	cttattgttgccctgcactgggatg	U08030
74984	ctgcctcctgccaggctgtagtcac	U08030
74985	cctgccaggctgtagtcactggctt	U08030
74986	aggctgtagtcactggcttctcagt	U08030
74987	tagtcactggcttctcagtggcttt	U08030
74988	gcaatcctgccaacactgatttatc	U08030
74989	ctgccaacactgatttatctcttaa	U08030
74990	ctcttaactgtacttaattctcaca	U08030
74991	actgtacttaattctcacaataaag	U08030
74992	cttaattctcacaataaaggctgac	U08030
74993	aggctcagcgcatatcaggtgacaa	U08030
74994	acaccaggaaccaaatactacatat	U08030
74995	tacatatcctaccgagtacagaagg	U08030
74996	tcgaccgagtccagtccagagactc	U08030
74997	gagtccagtccagagactcccatgt	U08030
74998	agtccagagactcccatgtccacgc	U08030
74999	ctgctgtctgtggccatgttcctgt	U08030
75000	ttcctgttggtcgtgggtcttattg	U08030
75001	agaacccaggtgtctccaagagaca	L25602
75002	gcaggtctttgcaccaagatgaaca	L25602
75003	gctgcaagagacacccttttgtatgt	L25602
75004	agagacacccttttgtatgtggactt	L25602
75005	atgactggatcgtggcacctccggg	L25602
75006	ctccgggctatcatgccttttactg	L25602
75007	ccatagtgcagactctggtgaactc	L25602
75008	tgcagactctggtgaactctgtgaa	L25602
75009	attccaaaatccctaaggcatgctg	L25602
75010	aaatccctaaggcatgctgtgtccc	L25602
75011	agctcagcgcaatctccatgttgta	L25602
75012	gcgcaatctccatgttgtacctaga	L25602
75013	atgaacacagctggtcacagataag	L25602
75014	acagctggtcacagataaggccatt	L25602
75015	ggccattgctagtgacttttggaca	L25602
75016	cgctccacaaacgagaaaagcgtca	L25602
75017	agcgtcaagccaaacacaaacagcg	L25602
75018	aagccaaacacaaacagcggaagcg	L25602
75019	aacacaaacagcggaagcgcctcaa	L25602
75020	aacagcggaagcgcctcaagtccag	L25602
75021	tcgccacgccaccagagtgtcatag	AA073420
75022	atgacagaaggactcccatgtatat	AA073420
75023	tgaactcaagtgtccctttgaata	AA073420
75024	ttttatcaaatgctggtatgatgtg	AA073420
75025	actatatattctacaatgtgctcgt	AA073420
75026	tatatattctacaatgtgctcgttg	AA073420
75027	tattctacaatgtgctcgttgtgcc	AA073420
75028	ttctacaatgtgctcgttgtgcccc	AA073420
75029	ctacaatgtgctcgttgtgccccaa	AA073420
75030	acaatgtgctcgttgtgccccaaga	AA073420
75031	aatgtgctcgttgtgccccaagaag	AA073420
75032	tgctcgttgtgccccaagaagaacc	AA073420
75033	gaaggactcccatgtatatgatgta	AA073420
75034	gtgccccaagaagaacccagacctg	AA073420
75035	aggactcccatgtatatgatgtaag	AA073420
75036	gactcccatgtatatgatgtaagcc	AA073420
75037	atgtaagccagagcgagtgaggtat	AA073420
75038	gtaagccagagcgagtgaggtatac	AA073420
75039	ggtatacctgaactcaagtgtccct	AA073420
75040	tatacctgaactcaagtgtcccttt	AA073420
117577	atgtaatgttcctacccagctggag	M32461
117578	gtaatgttcctacccagctggagca	M32461
117579	tacccagctggagcagagaaggctt	M32461
117580	cccagctggagcagagaaggctttg	M32461
117581	cttccagagctcggccgtcatggcg	M32461
117582	ttaagcgccctgtctcccatccatt	M32461
117583	tttgaatgcccttagtgtaagttgt	M32461
117584	tgaatgcccttagtgtaagttgttt	M32461
117585	taacgttaactgcggtcttattcag	M32461
117586	gttaactgcggtcttattcagacgc	M32461
117587	taactgcggtcttattcagacgcct	M32461
117588	actgcggtcttattcagacgcctag	M32461
117589	atcctacaccttctatgcagacaaa	AA008667
117590	cctacaccttctatgcagacaaatg	AA008667
117591	cggaatccgaaggccctgctcctct	AA008667
117592	gaatccgaaggccctgctcctctga	AA008667
117593	atccgaaggccctgctcctctgagg	AA008667
117594	gaaggccctgctcctctgaggcact	AA008667
117595	ctcctctgaggcactgtcaaagaag	AA008667
117596	agaaggagctgtctgccgaggagct	AA008667
117597	agctgtctgccgaggagctgtctca	AA008667
117598	gagctgtctcagcgcctggaaaagc	AA008667
117599	tgtctcagcgcctggaaaagctcat	AA008667
117600	aaagctcatcatggaggagaaagcg	AA008667
117601	caccttctatgcagacaaatgagcc	AA008667
117602	ccttctatgcagacaaatgagccat	AA008667
117603	aggctgacctcagctggaaggactt	AA008667
117604	gctgacctcagctggaaggacttttt	AA008667
117605	tgacctcagctggaaggacttttta	AA008667
117606	aagatgtccatcattttctcttgga	AA008667
117607	tcattttctcttggagcagaagttg	AA008667
117608	tttctcttggagcagaagttggact	AA008667
117609	tggtactgattgcccatcttgagtg	M32010
117610	cctggccagtgctaatgccagaagg	M32010
117611	taatctacgatttctcagcgccacg	M32010
117612	tctacgatttctcagcgccacgtgc	M32010
117613	atttctcagcgccacgtgccgcagg	M32010
117614	ccatctccctctgaactagttagtg	M32010
117615	tctccctctgaactagttagtgatg	M32010
117616	tagacatcaatcgtgtgtcctgatt	M32010
117617	acatcaatcgtgtgtcctgatttga	M32010
117618	tgtctctactcattttataccactg	M32010
117619	ctctactcattttataccactgttt	M32010
117620	tcattttataccactgtttgaatgg	M32010
117621	tgtcagccttggagattagcagagc	M32010
117622	ttagcagagcctctgtttgaggcct	M32010
117623	gagcctctgtttgaggccttagagg	M32010
117624	cctctgtttgaggccttagaggtat	M32010
117625	gagactgcccagcagcgttgttgct	M32010
117626	actgcccagcagcgttgttgctttt	M32010
117627	gcccagcagcgttgttgcttttgga	M32010
117628	gatggtccctaatctacgatttctc	M32010
117629	tgcttccttctcatttggcctcact	D21831
117630	atttggcctcactcccttctgaaga	D21831
117631	gacttaaatgtcagggctggagatg	D21831
117632	ctcaggtgggctgtcccaaagctcc	D21831
117633	tacagctcttccctagtcttaagca	D21831
117634	agctcttccctagtcttaagcacag	D21831
117635	tccctagtcttaagcacagctaggc	D21831
117636	ctagtcttaagcacagctaggctgg	D21831
117637	gtcttaagcacagctaggctgggag	D21831
117638	gctgggctgcatggtttttgccctg	D21831
117639	tcccatctttcacttgcacataaag	D21831
117640	ctttcacttgcacataaagttgctt	D21831
117641	tgacagcctttatcctctcagactt	D21831
117642	ttatcctctcagacttgacagatgg	D21831
117643	ggacctgcctctgtctcctgtcagc	D21831
117644	tcctgcagtcagactgaagaataaa	D21831

TABLE 1

SEQ ID NO	sequence	DBAxnID
32437	tccattccggacttcaaggaattct	W98391
32438	ttcatcacgctgctcgttctgggta	W98391
32439	gaattctacacggagtcagatgtga	W98391
32440	acgctgctcgttctgggtagacaga	W98391
32441	ctgctcgttctgggtagacagagtg	W98391
32442	ttagacttcttgtggaagaacaagt	W98391
32443	gagaacctaaaccgagtgctgctgg	W98391
32444	aacctaaaccgagtgctgctggaga	W98391
32445	ctaaaccgagtgctgctggagaacg	W98391
32446	aaccgagtgctgctggagaacgtgc	W98391
32447	ccaggaccacgagcgcctctttgag	U22445
32448	ccacgagcgcctctttgagctcatt	U22445
32449	cccagaccgatatgacagcctggac	U22445
32450	gttctcctactcagccagcatccga	U22445
32451	agccagcatccgagagtgagcagcc	U22445
32452	ccaccacaggacacaagcatggccg	U22445
32453	caggacacaagcatggccgtcatcc	U22445
32454	acaagcatggccgtcatccactgcc	U22445
32455	agcatggccgtcatccactgcctgg	U22445
32456	atggccgtcatccactgcctgggtg	U22445
32457	gccgtcatccactgcctgggtggct	U22445
32458	gtcatccactgcctgggtggctttt	U22445
32459	gcgcctctttgagctcattcttatg	U22445
32460	tcatccactgcctgggtggctttt	U22445
32461	ctttgagctcattcttatggaggag	U22445
32462	tcccagtgatgcgaaggaggtcatg	U22445
32463	tagattcttcctcagcatcaactgg	U22445
32464	cttcctcagcatcaactggcaggac	U22445
32465	cagcatcaactggcaggacgtggta	U22445
32466	caactggcaggacgtggtacagaaa	U22445
32467	caaacctcaggtcacttcagaagtg	U22445
32468	tccgcaggcgcccttcgtaaaccag	W98413
32469	caggcgcccttcgtaaaccagtatg	W98413
32470	ctggggtcatctatcccttccagcc	W98413
32471	tggggtcatctatcccttccagccc	W98413
32472	ccatcccacagagaggccctatgtg	W98413
32473	catcccacagagaggccctatgtgc	W98413
32474	atcccacagagaggccctatgtgcc	W98413
32475	tcccacagagaggccctatgtgccc	W98413
32476	ccacagagaggccctatgtgcccca	W98413
32477	ggcgcccttcgtaaaccagtatgag	W98413
32478	gcgcccttcgtaaaccagtatgaga	W98413
32479	tatgagaactacgatcccgcgtcac	W98413
32480	atgagaactacgatcccgcgtcacg	W98413
32481	tcccgcgtcacggacctacgaacag	W98413
32482	gcgtcacggacctacgaacagggct	W98413
32483	tcacggacctacgaacagggctacg	W98413
32484	gggctacgtgtactaccgtggtgcg	W98413
32485	agccgaagcctcggtcgcggttgat	W98426
32486	ccgaagcctcggtcgcggttgatga	W98426
32487	tccgtagcgctcaaagaggcgcttg	W98426
32488	ccgtagcgctcaaagaggcgcttga	W98426
32489	agcgctcaaagaggcgcttgaagtc	W98426
32490	tgatgtctgtgggcaggttacccac	W98426
32491	atgtctgtgggcaggttacccacga	W98426
32492	gcaggttacccacgaagaggcggca	W98426
32493	gttacccacgaagaggcggcacgct	W98426
32494	ttacccacgaagaggcggcacgctg	W98426
32495	tacccacgaagaggcggcacgctgg	W98426
32496	acccacgaagaggcggcacgctggc	W98426
32497	cgaagcctcggtcgcggttgatgaa	W98426
32498	gttgatgaagacctcgctgggctct	W98426
32499	ttgatgaagacctcgctgggctctc	W98426
32500	tgatgaagacctcgctgggctctcc	W98426
32501	gggctctccgtagcgctcaaagagg	W98426
32502	ctctccgtagcgctcaaagaggcgc	W98426
32503	tctccgtagcgctcaaagaggcgct	W98426
32504	ctccgtagcgctcaaagaggcgctt	W98426

SEQ ID NO	sequence	DBAxnID
75041	tacctgaactcaagtgtccctttg	AA073420
75042	ccagaaacatcatactcctgcttga	AA073381
75043	acatcatactcctgcttgaagatac	AA073381
75044	cagtaatcaccaactgcatccagta	AA073381
75045	gtaatcaccaactgcatccagtaag	AA073381
75046	aatcaccaactgcatccagtaagag	AA073381
75047	tcaccaactgcatccagtaagagat	AA073381
75048	accaactgcatccagtaagagatgc	AA073381
75049	caactgcatccagtaagagatgcat	AA073381
75050	actgcatccagtaagagatgcatga	AA073381
75051	gaggacacccagaaagaccagtgaa	AA073381
75052	ggacacccagaaagaccagtgaagg	AA073381
75053	acacccagaaagaccagtgaaggca	AA073381
75054	atcatactcctgcttgaagatacac	AA073381
75055	catactcctgcttgaagatacacat	AA073381
75056	tactcctgcttgaagatacacatca	AA073381
75057	acaatacacacagagatcaatgagc	AA073381
75058	aatacacacagagatcaatgagcat	AA073381
75059	tacacacagagatcaatgagcatca	AA073381
75060	tgatctacatgatacataggagcaa	AA073381
75061	agcagtaatcaccaactgcatccag	AA073381
75062	caccaaaatacacaaaatctattct	AA168959
75063	ggatgttgttcactgctggtataca	AA168959
75064	acactcccagatgggactgttttg	AA168959
75065	actcccagatgggactgttttgat	AA168959
75066	ctcccagatgggactgttttgata	AA168959
75067	atgaagcgctcttgactatgagtaa	AA168959
75068	tgaagcgctcttgactatgagtaaa	AA168959
75069	aagcgctcttgactatgagtaaagg	AA168959
75070	agcgctcttgactatgagtaaagga	AA168959
75071	aaaggctcgactggagatcgaacca	AA168959
75072	aaggctcgactggagatcgaaccag	AA168959
75073	aggctcgactggagatcgaaccaga	AA168959
75074	atgttgttcactgctggtatacagg	AA168959
75075	tgttgttcactgctggtatacaggg	AA168959
75076	gttgttcactgctggtatacaggga	AA168959
75077	tgttcactgctggtatacagggaca	AA168959
75078	gttcactgctggtatacagggacac	AA168959
75079	ttcactgctggtatacagggacact	AA168959
75080	ggacactcccagatgggactgtttt	AA168959
75081	gacactcccagatgggactgttttt	AA168959
75082	atgtgcaccattccaggaacatgac	U62483
75083	accattccaggaacatgactgttaa	U62483
75084	attgtactgtatgtggctttttgaa	U62483
75085	ctgtatgtggctttttgaagtcttc	U62483
75086	ttttgaagtcttcccttgactctag	U62483
75087	tgttaatccagaaacattcatgtga	U62483
75088	atgtaagccaggccagcttgaaggc	U62483
75089	tgaaggccaatgctctttagtcacc	U62483
75090	ccaatgctctttagtcaccaagatc	U62483
75091	ctctttagtcaccaagatctttgaa	U62483
75092	agtcaccaagatctttgaaatgcat	U62483
75093	tctttacactcttgcacaaaaatcg	U62483
75094	tgagcagcatttcaccaaaaccttg	U62483
75095	gcatttcaccaaaaccttgtgacag	U62483
75096	caccaaaaccttgtgacagtctctt	U62483
75097	gtgacagtctcttggtacatagggc	U62483
75098	gtctcttggtacatagggcatagaa	U62483
75099	accgaacctgggaaacatgagcaca	U62483
75100	tgttacttgcactaacatttgcagg	U62483
75101	ttgcactaacatttgcaggatgtcc	U62483
75102	accagatacagaacgcacagtattt	AA124715
75103	cagatacagaacgcacagtatttgc	AA124715
75104	tctgcttcataggtgttctgcattt	AA124715
75105	tgcttcataggtgttctgcatttga	AA124715
75106	cttcataggtgttctgcatttgagg	AA124715
75107	aggtgttctgcatttgaggtgtagt	AA124715
75108	gtgttctgcatttgaggtgtagtga	AA124715

SEQ ID NO	sequence	DBAxnID
117645	tttaatttcctgtgaggagagactg	D21831
117646	aatttcctgtgaggagagactggga	D21831
117647	agaagtactgtacatccccaggttg	D21831
117648	gtacatccccaggttgacttaaatg	D21831
117649	ctagccattgagcttctcgcggcct	L07645
117650	gatcgcttcatggccccggacattg	L07645
117651	atcccagagtctgacgatctttaac	L07645
117652	gagtctgacgatctttaacgggctt	L07645
117653	ggcacatcagatgggcctgagctta	L07645
117654	gagcttagcacagcactggtgtgtt	L07645
117655	agcacagcactggtgtgttgatgga	L07645
117656	agtctcaggaactgcctgtaatgtg	L07645
117657	ctcatctcttttcaaacatactctg	L07645
117658	tactctggataggccatggcagcaa	L07645
117659	tggctgaacccagagccctgatctt	L07645
117660	gagccctgatcttgttttcttgtta	L07645
117661	ttcatggccccggacattgaggcag	L07645
117662	gcacacaggttgcttcttgaccaaa	L07645
117663	gttgccgcaccgtacatcgagaaat	L07645
117664	tccagaccgctttctccaacagcgt	L07645
117665	tctccaacagcgttttcactagaat	L07645
117666	ttttcactagaatctctccgaaaga	L07645
117667	ctagaatctctccgaaagaactcag	L07645
117668	tctctccgaaagaactcagccacaa	L07645
117669	atctgcctgccttccaaagactaca	M96827
117670	tccaaagactacatagcaccaggcc	M96827
117671	ctcaccaagtaccaggaagacacct	M96827
117672	tgctacggtgacgccggcagtgcct	M96827
117673	gccggcagtgcctttgccattcatg	M96827
117674	aagagctgcgctgtcgctgagtatg	M96827
117675	tgcgctgtcgctgagtatggtgtgt	M96827
117676	cactagaaggctgcacatggcaggg	M96827
117677	aaggctgcacatggcagggcaggct	M96827
117678	gctatactctgatgggttctagccc	M96827
117679	ctctgatgggttctagccctgcact	M96827
117680	ctagccctgcactgctcagtcaaca	M96827
117681	gactacatagcaccaggccgtgtgg	M96827
117682	atagcaccaggccgtgtgggctacg	M96827
117683	agatttaccgatcgtctcaagtatg	M96827
117684	accgatcgtctcaagtatgtcatgc	M96827
117685	ggggtccagcctatcttgaacgagc	M96827
117686	cagcctatcttgaacgagcacacct	M96827
117687	ttctgtgctggcctcaccaagtacc	M96827
117688	gctggcctcaccaagtaccaggaag	M96827
117689	gaccaatcactgcattcagaaagag	W19040
117690	caatcactgcattcagaaagagtac	W19040
117691	ccagagcttccagctcctcggcttt	W19040
117692	gagcttccagctcctcggctttgac	W19040
117693	cttccagctcctcggctttgacttc	W19040
117694	ccagctcctcggctttgacttcatg	W19040
117695	gctcctcggctttgacttcatggtg	W19040
117696	cctcggctttgacttcatggtggac	W19040
117697	cggctttgacttcatggtggacgag	W19040
117698	ctttgacttcatggtggacgaggag	W19040
117699	tgacttcatggtggacgaggagctg	W19040
117700	tgaagtcaacggcgccacagcgtgt	W19040
117701	gttcaatcagtacctaaccagcgct	W19040
117702	agtcaacggcgccacagcgtgtgcc	W19040
117703	cgctctgaacatcaccttagaaagt	W19040
117704	tctgaacatcaccttagaaagtagc	W19040
117705	gaacatcaccttagaaagtagcatt	W19040
117706	aaggagctgcctcatgagtgtggag	W19040
117707	gagctgcctcatgagtgtggagccc	W19040
117708	cctcatgagtgtggagcccgccatc	W19040
117709	ttaccagagcttccagctcctcggc	W19040
117710	aagcagctgagcctgaccatgatgg	L11333
117711	atgatggcccaatggagccagtttg	L11333
117712	gaccatgctgctgtgagcccatgtt	L11333

TABLE 1

SEQ ID NO	sequence	DBAxnID
32505	accaccatgggaacatcgagtcctg	D82029
32506	ggaacatcgagtcctgccacgccga	D82029
32507	acagcaaatcgcgcagggacattgt	D82029
32508	aatcgcgcagggacattgtgcctga	D82029
32509	acattgtgcctgaagctctttttct	D82029
32510	ttgtgcctgaagctctttttctacc	D82029
32511	cccggcggactccaacagctcgtga	D82029
32512	ggcggactccaacagctcgtgacaa	D82029
32513	cctatgcctacgaaggcaccggctc	D82029
32514	ccgactccctgagctcgctggaatc	D82029
32515	ccctgagctcgctggaatccgtgac	D82029
32516	cgctggaatccgtgaccacggatgg	D82029
32517	caggccttagctctggggctctggt	D82029
32518	ctctggtggccatccttctgtgcat	D82029
32519	tcctactagtgacagtggtgctgtt	D82029
32520	tgttcgcagctctgaggcggcagga	D82029
32521	ctttgatcatttccaaagaggacat	D82029
32522	ttgtcagttacaacgacgaaggtgg	D82029
32523	tgaggaaccctgaagccatggagga	D82029
32524	aggacagcaaatcgcgcagggacat	D82029
32525	caaccgctgcatccacgaggagaac	U40039
32526	ctgcatccacgaggagaacccctac	U40039
32527	agctacatcgcctacctcatggatc	U40039
32528	tacatcgcctacctcatggatctgc	U40039
32529	atcgcctacctcatggatctgctgc	U40039
32530	gcctacctcatggatctgctgccca	U40039
32531	tacctcatggatctgctgcccaagg	U40039
32532	ctcatggatctgctgcccaaggacg	U40039
32533	atggatctgctgcccaaggacgacc	U40039
32534	gatctgctgcccaaggacgaccaga	U40039
32535	gccctggagctcaagcagtgaagaa	U40039
32536	ccctggagctcaagcagtgaagaag	U40039
32537	cccctactccacggctggcttattg	U40039
32538	cacggctggcttattggccacccgg	U40039
32539	tggcttattggccacccggagatgt	U40039
32540	gactacagtatggccctgtcctaca	U40039
32541	atggccctgtcctacagccccgagt	U40039
32542	accgccaaccgcaaggagcggcgca	U40039
32543	aggactcagagcatcaacagcgcct	U40039
32544	actcagagcatcaacagcgccttcg	U40039
32545	gtcttccatacctcggtcctcttgt	W98496
32546	catacctcggtcctcttgtagtagc	W98496
32547	gcctgctggtacttcagctgcggcg	W98496
32548	ctgcagacatggactcgtcgcacgt	W98496
32549	cagacatggactcgtcgcacgtcgc	W98496
32550	acatggactcgtcgcacgtcgcctg	W98496
32551	actcgtcgcacgtcgcctgtgtaca	W98496
32552	cgtcgcacgtcgcctgtgtacatgc	W98496
32553	tcgcctgtgtacatgctaggctgcg	W98496
32554	cctgtgtacatgctaggctgcggtc	W98496
32555	gtgtacatgctaggctgcggtccga	W98496
32556	atgctaggctgcggtccgaatgctt	W98496
32557	tctagtcgccagaactccggtaccg	W98496
32558	ggtaccgtgtttgagtcacgccttg	W98496
32559	gaggctctcgatgatctcgtcagtt	W98496
32560	gctctcgatgatctcgtcagttatg	W98496
32561	ctcgatgatctcgtcagttatgcct	W98496
32562	gatctcgtcagttatgcctgctggt	W98496
32563	gtcagttatgcctgctggtacttca	W98496
32564	tatgcctgctggtacttcagctgcg	W98496
32565	ttctgggttcaccttcaggatttct	U41496
32566	tgggttcaccttcaggatttctaca	U41496
32567	ctctaccttcagatgaatgccctga	U41496
32568	taccttcagatgaatgccctgagag	U41496
32569	atgaatgccctgagagctgaggaca	U41496
32570	aatgccctgagagctgaggacactg	U41496
32571	actgccatttattactgtgcaagag	U41496
32572	gccatttattactgtgcaagagatt	U41496

SEQ ID NO	sequence	DBAxnID
75109	tgaaatctttgctgttcaccagatg	AA124715
75110	atctttgctgttcaccagatgtaat	AA124715
75111	ctttgctgttcaccagatgtaatgt	AA124715
75112	ttgctgttcaccagatgtaatgttt	AA124715
75113	gctgttcaccagatgtaatgtttta	AA124715
75114	gatacagaacgcacagtatttgctg	AA124715
75115	gaacgcacagtatttgctgcagaac	AA124715
75116	agtatttgctgcagaacagtgtgaa	AA124715
75117	tatttgctgcagaacagtgtgaagc	AA124715
75118	ttatctgcttctgtttaaaaagcca	AA124715
75119	ttaaaaagccaacattcctctgctt	AA124715
75120	ccaacattcctctgcttcataggtg	AA124715
75121	cctctgcttcataggtgttctgcat	AA124715
75122	taaggcttccaagcctaaagcttct	U62923
75123	ggcttccaagcctaaagcttctaag	U62923
75124	gactctggctatgtgttccgaagca	U62923
75125	tatgtgttccgaagcagatcaattc	U62923
75126	ctgtgcactttgttatgggtacatt	U62923
75127	gcatctataaactctagttgagcga	U62923
75128	tgtatcattttcagctctagctgga	U62923
75129	atcattttcagctctagctggactt	U62923
75130	attttcagctctagctggacttctg	U62923
75131	agctctagctggacttctggccggc	U62923
75132	tctagctggacttctggccggcagt	U62923
75133	agctggacttctggccggcagtttt	U62923
75134	ttctaagccgaaggccaccaaggca	U62923
75135	tggtgcgtcctgctttgaaaatctc	U62923
75136	acccacaacctcattcaaaagagct	U62923
75137	cacaacctcattcaaaagagctgag	U62923
75138	ttctggttttctcatggtatgtccg	U62923
75139	catggtatgtccgctgactctggct	U62923
75140	ggtatgtccgctgactctggctatg	U62923
75141	atgtccgctgactctggctatgtgt	U62923
75142	accaccttctcctagatatgaagaa	D30779
75143	accttctcctagatatgaagaactc	D30779
75144	actttgtatgccagactagcctcaa	D30779
75145	ttgtatgccagactagcctcaaacc	D30779
75146	tgtgtgccaccactacctggcaata	D30779
75147	gtgccaccactacctggcaatatgt	D30779
75148	ccaccactacctggcaatatgtaat	D30779
75149	atgtaatctaaccagggcttacaga	D30779
75150	tctaaccagggcttacagaatagat	D30779
75151	gatctgaattgtgctcccattagaa	D30779
75152	ctgaattgtgctcccattagaacca	D30779
75153	tgtgctcccattagaaccaaactaa	D30779
75154	actcagtaggcaggcactctcaaga	D30779
75155	ggcactctcaagaacaaccatacag	D30779
75156	actctcaagaacaaccatacagttt	D30779
75157	atactatataacaatcttttgttat	D30779
75158	ttttcaagacacagcttctttgtat	D30779
75159	acagtcctggcggtcctagaattca	D30779
75160	gtcctagaattcactttgtatgcca	D30779
75161	ttcactttgtatgccagactagcct	D30779
75162	gtctgctgtgtgaggactgccgcca	
75163	tggtaagaccatcaccctggaggtc	
75164	tgcaggcaagcagctggaagatggc	
75165	caccctgtcagactacaacatccag	
75166	gtcagactacaacatccagaaagag	
75167	agactacaacatccagaaagagtcc	
75168	ctacaacatccagaaagagtccagc	
75169	gaaagagtccagcctgcacctggtc	
75170	gtccagcctgcacctggtccttcgc	
75171	cctgcacctggtccttcgcctcaga	
75172	ccttcgcctcagaggtggcatgcag	
75173	cctcagaggtggcatgcagatcttt	
75174	taagaccatcaccctggaggtcgag	
75175	ggtcgagcccagtgacaccatagag	
75176	cgagcccagtgacaccatagagaat	

SEQ ID NO	sequence	DBAxnID
117713	gctgctgtgagcccatgtttcttaa	L11333
117714	ccatgtttcttaaatcatcagcccc	L11333
117715	ttcttaaatcatcagcccctacaag	L11333
117716	cagcccctacaagaccagtatggtg	L11333
117717	aatctggtttctacttcttgatcat	L11333
117718	gtttctacttcttgatcattgaaca	L11333
117719	acttcttgatcattgaacatactgc	L11333
117720	atactgctgtttcttcctaaagtga	L11333
117721	acccttgctgtatggtacagtccag	L11333
117722	gcacgcacaggaaatcccaatggca	L11333
117723	aatcccaatggcaaggggctgcctc	L11333
117724	aaagttccagaggagctctgagccc	L11333
117725	cagacctacctggaccttcctgact	L11333
117726	gtagcatccaagcagggcaactaca	L11333
117727	tccaagcagggcaactacaacttct	L11333
117728	tttctgttcagagactttagcctgg	L11333
117729	gactttagcctggaccatgctgctg	L11333
117730	tgatgcgctgcaaacgccggctcaa	M95603
117731	gctgcaaacgccggctcaacttcag	M95603
117732	ccaacgacttgaactctatggcggg	M95603
117733	agctgctggactttaccaactggtt	M95603
117734	tggactttaccaactggttctgagg	M95603
117735	gacctgccaggctctcctgggaatg	M95603
117736	ccaggctctcctgggaatggacttt	M95603
117737	tctcctgggaatggactttggaagc	M95603
117738	ggcagcagatcctgcatctttagtg	M95603
117739	agatcctgcatctttagtgtttctt	M95603
117740	tgcatctttagtgtttcttgacaac	M95603
117741	gtttcttgacaacgacgtcaaaatg	M95603
117742	aacgccggctcaacttcagcggctt	M95603
117743	acttcagcggcttcggctacagcct	M95603
117744	gcggcttcggctacagcctgccaca	M95603
117745	ccaacggcgcggccaacaagaagat	M95603
117746	tccagtacatccgcgcgctgcagca	M95603
117747	agcacgacgcggtgagcgctgcctt	M95603
117748	acgcggtgagcgctgcctttcaggc	M95603
117749	actactccaacgacttgaactctat	M95603
117750	gattaatcacctctctgtgagtgag	W18446
117751	taatcacctctctgtgagtgaggtg	W18446
117752	aactcattttccagagtgaaggcaa	W18446
117753	aggaaggacccagtcttctgacagc	W18446
117754	aaggacccagtcttctgacagcagg	W18446
117755	gagaaagcacacacacaggtttgct	W18446
117756	aaagcacacacacaggtttgctgcc	W18446
117757	gcacacacacaggtttgctgccacg	W18446
117758	cacacacaggtttgctgccacgttg	W18446
117759	gtttgctgccacgttgccagtaatg	W18446
117760	tgctgccacgttgccagtaatgagc	W18446
117761	tgccacgttgccagtaatgagcagt	W18446
117762	acgtgctaggcaagcaccgagccca	W18446
117763	gagcccaggggtctcacatttaagc	W18446
117764	ggtctcacatttaagccatcacatt	W18446
117765	acatttaagccatcacattggacat	W18446
117766	aagccatcacattggacatgaaggg	W18446
117767	ccatcacattggacatgaaggggac	W18446
117768	tcacattggacatgaaggggacact	W18446
117769	tgggacaactcattttccagagtga	W18446
117770	acctcacaccatggttcatttcaca	J00416
117771	ggttcatttcacagctgaggagaag	J00416
117772	agtgctgacatccctgggcttggca	J00416
117773	cctgggcttggcagttaagaacatg	J00416
117774	gaacatgcacaacctcaaggagacc	J00416
117775	ctttgctcatctcagtgaactgcac	J00416
117776	cttcaagctcctgggtaacatgctg	J00416
117777	gctcctgggtaacatgctggtgatt	J00416
117778	gtaccactgagccctttccctgatg	J00416
117779	cctgatgtccagcattctgtacacc	J00416
117780	ccatggccactgtgctggtctctga	J00416

TABLE 1

SEQ ID NO	sequence	DBAxnID
32573	atttattactgtgcaagagattact	U41496
32574	gtagtcactggtacttcgatgtctg	U41496
32575	gtcactggtacttcgatgtctgggg	U41496
32576	actggtacttcgatgtctggggcgc	U41496
32577	caccttcaggatttctacatggagt	U41496
32578	atcgtctccagagacacttcccaaa	U41496
32579	gtctccagagacacttcccaaagca	U41496
32580	tccagagacacttcccaaagcatcc	U41496
32581	agagacacttcccaaagcatcctct	U41496
32582	tcccaaagcatcctctaccttcaga	U41496
32583	agcatcctctaccttcagatgaatg	U41496
32584	atcctctaccttcagatgaatgccc	U41496
32585	ttcactgtacaaccgcagtaatacg	D49949
32586	gtacaaccgcagtaatacggaatat	D49949
32587	atgatgctttcaaactcattctgaa	D49949
32588	aatctgtaatgttcactctcactaa	D49949
32589	taatgttcactctcactaacttaca	D49949
32590	tcactctcactaacttacatcaaag	D49949
32591	tagcacacatgcgccttgtgatgac	D49949
32592	gccttgtgatgacctcgcctgtatt	D49949
32593	tgatgacctcgcctgtatttccata	D49949
32594	cctcgcctgtatttccataacagaa	D49949
32595	aacagaatacccgaggctgcatgat	D49949
32596	atacccgaggctgcatgatttatag	D49949
32597	taaatgaccaagttctcttcgttga	D49949
32598	ttctcttcgttgacaaaagacagcc	D49949
32599	aaagtgccagtgaaccccagaccag	D49949
32600	tggatccacctgaaaatattgatga	D49949
32601	atctcatattctttcagaaacgtgt	D49949
32602	tattctttcagaaacgtgttccagg	D49949
32603	aacgtgttccaggacacaacaagat	D49949
32604	ttccaggacacaacaagatggagtt	D49949
32605		
32606		
32607		
32608	LOCAL_TARGET	
32609	tggacccggtttgcaggtcgtgatg	W98512
32610	gacccggtttgcaggtcgtgatgga	W98512
32611	tgaatatcgacgagcgctacatctc	W98512
32612	aatatcgacgagcgctacatctcgc	W98512
32613	atatcgacgagcgctacatctcgca	W98512
32614	atggatatctcttcgtacatgcgca	W98512
32615	tggatatctcttcgtacatgcgcag	W98512
32616	gatatctcttcgtacatgcgcagga	W98512
32617	atatctcttcgtacatgcgcaggat	W98512
32618	atctcttcgtacatgcgcaggatgg	W98512
32619	tctcttcgtacatgcgcaggatggt	W98512
32620	tcttcgtacatgcgcaggatggtgg	W98512
32621	tttgcaggtcgtgatggaccgcaac	W98512
32622	tcgtgatggaccgcaacttgctgga	W98512
32623	agactgcgttctgcagaacactgtt	W98512
32624	actgcgttctgcagaacactgttga	W98512
32625	ctgcgttctgcagaacactgttgaa	W98512
32626	gcgttctgcagaacactgttgaata	W98512
32627	cgttctgcagaacactgttgaatat	W98512
32628	ttctgcagaacactgttgaatatcg	W98512
32629	taactttgcaactataatcctgtat	D49429
32630	ctttgcaactataatcctgtatcag	D49429
32631	ccagatgcaccagaattatgtgact	D49429
32632	agttctagcttaagtgttggcactt	D49429
32633	cttccatgtcgacgtatacccagta	D49429
32634	ctcgtaatactactttaatgattca	D49429
32635	taatgattcagtttctcgagaatgg	D49429
32636	tgattcagtttctcgagaatggtaa	D49429
32637	ttcagtttctcgagaatggtaattg	D49429
32638	ttcaatacgacgtgcctgtaaccat	D49429
32639	aatacgacgtgcctgtaaccatgga	D49429
32640	ctgtaaccatggatgtccccttgt	D49429

SEQ ID NO:	sequence	DBAxnID
75177	gcccagtgacaccatagagaatgtc	
75178	ccccccctgaccagcagaggctgatc	
75179	ccctgaccagcagaggctgatcttt	
75180	tgaccagcagaggctgatctttgca	
75181	ctttgcaggcaagcagctggaagat	
75182	agttccgtctgctgtgtgaggactg	
75183	gttccgtctgctgtgtgaggactgc	
75184	ttccgtctgctgtgtgaggactgcc	
75185	gtctgctgtgtgaggactgccgcca	
75186	agttccgtctgctgtgtgaggactg	
75187	gttccgtctgctgtgtgaggactgc	
75188	ttccgtctgctgtgtgaggactgcc	
75189	gtctgctgtgtgaggactgccgcca	
75190	ctgctgtgtgaggactgccgccacc	
75191	gccaccaccgctgacgatgcagatc	
75192	ccaccaccgctgacgatgcagatct	
75193	acagtcaacttcatgggcaaagatt	D50523
75194	ctctatatctggtcgtatcctggat	D50523
75195	aatcacagcaaagtccatcttgact	D50523
75196	ccaatgataatcaaccctaggtgtt	D50523
75197	aggtgttttctcagttgtggagaag	D50523
75198	tgatcacatttatgcccctgtatcc	D50523
75199	catttatgcccctgtatccaactgt	D50523
75200	tgcccctgtatccaactgtgcctga	D50523
75201	caactgtgcctgaagctaatagtac	D50523
75202	atagtacatcacctggacttttcag	D50523
75203	catcacctggacttttcagttatgt	D50523
75204	ctggacttttcagttatgtgaacca	D50523
75205	tcgtatcctggatgctagtttttta	D50523
75206	attgcccagtgaccatttccatctc	D50523
75207	cagtgaccatttccatctcacgctt	D50523
75208	ccatttccatctcacgcttaacttc	D50523
75209	catctcttccaattttcagtcctgg	D50523
75210	ttccaattttcagtcctggtgattt	D50523
75211	ttttcagtcctggtgatttagacag	D50523
75212	tagacagtctttttcatgctggacat	D50523
75213	cggatcaagcagccagggaggcacc	AA087673
75214	ggatcaagcagccagggaggcacca	AA087673
75215	tccacgctcttaatagaggattcgt	AA087673
75216	gtatactcccagctacttccactac	AA087673
75217	tcccagctacttccactacacagag	AA087673
75218	cccagctacttccactacacagaga	AA087673
75219	cagctacttccactacacagagact	AA087673
75220	agctacttccactacacagagactg	AA087673
75221	ctacttccactacacagagactgac	AA087673
75222	cttccactacacagagactgacaaa	AA087673
75223	ccttctgagactgggagccgtatac	AA087673
75224	cttctgagactgggagccgtatacg	AA087673
75225	tcaagcagccagggaggcaccatga	AA087673
75226	agactgggagccgtatacgatgagg	AA087673
75227	agcagccagggaggcaccatgagag	AA087673
75228	agcgcagaaacgtccacgctcttaa	AA087673
75229	cgcagaaacgtccacgctcttaata	AA087673
75230	gcagaaacgtccacgctcttaatag	AA087673
75231	gaaacgtccacgctcttaatagagg	AA087673
75232	aacgtccacgctcttaatagaggat	AA087673
75233	gtccacgctcttaatagaggattcg	AA087673
75234	ttggccatgggagctgatgttgatc	AA073600
75235	ctaattcgatgactgcactgattgt	AA073600
75236	ggacggaaacacagccctgatgatt	AA073600
75237	acggaaacacagccctgatgattgc	AA073600
75238	ggaaacacagccctgatgattgcgt	AA073600
75239	acagccctgatgattgcgtcgaagg	AA073600
75240	agccctgatgattgcgtcgaaggaa	AA073600
75241	ccctgatgattgcgtcgaaggaagg	AA073600
75242	ctgatgattgcgtcgaaggaaggac	AA073600
75243	tgattgcgtcgaaggaaggacatat	AA073600
75244	tgttggacgccggaacatatgtgaa	AA073600

SEQ ID NO	sequence	DBAxnID
117781	aaagcagggcttctgcttaataaag	J00416
117782	tttcacagctgaggagaaggcagct	J00416
117783	tatcacaagcatctgggataaagtg	J00416
117784	gctcctgattgtttacccatggact	J00416
117785	gattgtttacccatggactcagagg	J00416
117786	atggactcagaggttctttgacaaa	J00416
117787	tgcccaagccatcatgggtaatccc	J00416
117788	agccatcatgggtaatcccagaatc	J00416
117789	taatcccagaatcaaagcccatggc	J00416
117790	ccctcagcaccaggcaggatctgac	U21855
117791	gcaccaggcaggatctgactcactg	U21855
117792	tacgagttacacaactgcttgtata	U21855
117793	ttacacaactgcttgtatataggtt	U21855
117794	cttttgtagaccttctctgctttca	U21855
117795	ttctctgctttcagtaataagtatg	U21855
117796	aagtatggcctttcttagctatgat	U21855
117797	ggcctttcttagctatgatcttaat	U21855
117798	cattcaccttaaatctggccttaat	U21855
117799	tttaatacacttcttatcaagcttg	U21855
117800	cttatcaagcttgtgtgacaaagct	U21855
117801	caaagctacattactgaataatttg	U21855
117802	atctgactcactgcttacaggaatg	U21855
117803	atactgtggtcacttatatggcctt	U21855
117804	tggtcacttatatggccttggttct	U21855
117805	cttatatggccttggttctggctca	U21855
117806	tggttctggctcatcctatgtacag	U21855
117807	tggctcatcctatgtacagaacggc	U21855
117808	atcctatgtacagaacggcacaggg	U21855
117809	tgtacagaacggcacagggaatgca	U21855
117810	ccaccaaggggctagactgtgacat	M68902
117811	ttgatatccagaagaccatccagat	M68902
117812	agaagcagcggtcggcagacaagga	M68902
117813	gttctctcaagaggaagtgatctgg	M68902
117814	ggcattcgtctgcaggtggccatgc	M68902
117815	cgtctgcaggtggccatgcatcagc	M68902
117816	gccatgcatcagccgtgatccctgc	M68902
117817	catcagccgtgatccctgcagaggc	M68902
117818	cagaggcttccacccgatagactga	M68902
117819	actgtggtcatctgaatctgtatat	M68902
117820	atctgtatatagcccggcaagtccc	M68902
117821	tgtatatagcccggcaagtccccag	M68902
117822	tccagaagaccatccagatggtacg	M68902
117823	gagcacagcgctccggcatggtgca	M68902
117824	tttacgtggccattgcccagttcat	M68902
117825	tggccattgcccagttcatcgaaac	M68902
117826	ttgcccagttcatcgaaacgaccaa	M68902
117827	agatcatacaatcccagaagggcca	M68902
117828	tacaatcccagaagggccaggagtc	M68902
117829	gtacttcctccaagcacaaggagga	M68902
117830	gttttccaccagaggctatcaacaa	AA162215
117831	ttccaccagaggctatcaacaactt	AA162215
117832	atgcagccccacgtgccatggctgt	AA162215
117833	gtgccatggctgttctagagccact	AA162215
117834	agccactacaagttgtcatcaccaa	AA162215
117835	cactacaagttgtcatcaccaactt	AA162215
117836	ttgtcatcaccaactttcctgctcc	AA162215
117837	acatccgagtgccaaatttcccagc	AA162215
117838	gagtgccaaatttcccagctgatga	AA162215
117839	caaatttcccagctgatgagaccaa	AA162215
117840	atttcccagctgatgagaccaaggg	AA162215
117841	tcccagctgatgagaccaagggttt	AA162215
117842	ctatcaacaacttctgtgctcgggt	AA162215
117843	tcacagtggcacagaccacaatgga	AA162215
117844	cagtggcacagaccacaatggaacc	AA162215
117845	tggcacagaccacaatggaacctca	AA162215
117846	ccacaatggaacctcatcttctgga	AA162215
117847	caatggaacctcatcttctggaagc	AA162215
117848	aacctcatcttctggaagcctgtgt	AA162215

TABLE 1

SEQ ID NO	sequence	DBAxnID
32641	tgcaactataatcctgtatcagttt	D49429
32642	aactataatcctgtatcagtttcct	D49429
32643	tataatcctgtatcagtttcctata	D49429
32644	aatcctgtatcagtttcctataatt	D49429
32645	attattaacagaccagatgcaccag	D49429
32646	attaacagaccagatgcaccagaat	D49429
32647	aacagaccagatgcaccagaattat	D49429
32648	agaccagatgcaccagaattatgtg	D49429
32649	ggagttcagcgagtcggagagcaat	W98609
32650	agttcagcgagtcggagagcaatga	W98609
32651	gcggtaccactatggcacgactggt	W98609
32652	cggtaccactatggcacgactggta	W98609
32653	ggtaccactatggcacgactggtaa	W98609
32654	gtaccactatggcacgactggtaag	W98609
32655	taccactatggcacgactggtaagc	W98609
32656	aggttctatgagcacaggtgggatg	W98609
32657	ggttctatgagcacaggtgggatga	W98609
32658	gttctatgagcacaggtgggatgag	W98609
32659	ttctatgagcacaggtgggatgagg	W98609
32660	tctatgagcacaggtgggatgagga	W98609
32661	gttcagcgagtcggagagcaatgag	W98609
32662	gatctcgtgtctgagtacgagcggt	W98609
32663	atctcgtgtctgagtacgagcggta	W98609
32664	tctcgtgtctgagtacgagcggtac	W98609
32665	gtacgagcggtaccactatggcacg	W98609
32666	tacgagcggtaccactatggcacga	W98609
32667	acgagcggtaccactatggcacgac	W98609
32668	agcggtaccactatggcacgactgg	W98609
32669	tcctcaaagacattatctgtactat	D37791
32670	ttcttgttcagaccaagcctgtgtg	D37791
32671	gtgtaccgctacagtgttgcagttc	D37791
32672	ctgtgacagcaccagtctgaggctg	D37791
32673	ttcagtgacctgtgagatgtgcgga	D37791
32674	cacctcagcagcacagataggggtc	D37791
32675	cacacatcgatagatgtcaggcggg	D37791
32676	gctccgcctcagttaatggaaatat	D37791
32677	catgttaccccaaattagcttctct	D37791
32678	accccaaattagcttctctgcatag	D37791
32679	cttctctgcatagaacataagtatg	D37791
32680	acacgtgtgttctactacagcttat	D37791
32681	ttcagaccaagcctgtgtgcctgat	D37791
32682	ccaagcctgtgtgcctgatatcatt	D37791
32683	tcttcaagttgcccacagtgtctcc	D37791
32684	agttgcccacagtgtctccacttaa	D37791
32685	ccacagtgtctccacttaaataggc	D37791
32686	tagccctgctttaggggccagggtg	D37791
32687	agaggtctgctcctaaggtaacgtg	D37791
32688	agccaatggtctgaggctgtgtacc	D37791
32689	ccctgagggcctgttcgtccagcct	U28728
32690	ttcatctctttcggtcattttagcc	U28728
32691	tccaggcaggcatcaggccatctgg	U28728
32692	actggattctcctcgttaccctgtg	U28728
32693	tgaaacttggtgccacacagagcct	U28728
32694	ttggtgccacacagagcctctgtcc	U28728
32695	tctgtcctgtttcttggctgaagat	U28728
32696	ctgtttcttggctgaagatgacaat	U28728
32697	tcacaagtcaggagagccggccaca	U28728
32698	ggccacagacaggcatggcatgcac	U28728
32699	gcatggcatgcacctcaataaacgc	U28728
32700	catgcacctcaataaacgctgccgt	U28728
32701	ggtcattttagccactcaccgaggt	U28728
32702	ccgaggtctctctttccccatatct	U28728
32703	tttccccatatctactgccttttgt	U28728
32704	catatctactgccttttgtatgagc	U28728
32705	tactgccttttgtatgagccatttt	U28728
32706	cttttgtatgagccattttgtataa	U28728
32707	tttcttgctttgtccaggcaggcat	U28728
32708	gctttgtccaggcaggcatcaggcc	U28728

SEQ ID NO	sequence	DBAxnID
75245	atgtgaacatacctgacaggagtgg	AA073600
75246	aattcgatgactgcactgattgtgg	AA073600
75247	ttcgatgactgcactgattgtggca	AA073600
75248	cgatgactgcactgattgtggcagt	AA073600
75249	ggggctacacacagtcagtaaagga	AA073600
75250	ctacacacagtcagtaaaggagatt	AA073600
75251	aatccaaacgtgaacctgactgata	AA073600
75252	tccaaacgtgaacctgactgataag	AA073600
75253	cgtgaacctgactgataaggacgga	AA073600
75254	gatgacctctcggtacaacagaagt	X91270
75255	gtacaacagaagtctacccaacaga	X91270
75256	ctcgcctcaccagagtcaagtctat	X91270
75257	tcaccagagtcaagtctatgatacc	X91270
75258	agtctatgataccttcaagatgcag	X91270
75259	gactgcaatgtcacccagatcgttg	X91270
75260	aatgtcacccagatcgttggttcat	X91270
75261	ggttcatggacaaccctctactcac	X91270
75262	tgtaggacttctggccctggagctt	X91270
75263	acttctggccctggagcttcctcaa	X91270
75264	ggagcttcctcaaacacttgctttc	X91270
75265	tcctcaaacacttgctttccaataa	X91270
75266	cagaagtctacccaacagatgaaaa	X91270
75267	caattcggacaacagcggcaatatg	X91270
75268	gagcgctcacaatcctataaaggat	X91270
75269	tcacaatcctataaaggatatcttg	X91270
75270	ggagcagacctctatcaagctcagc	X91270
75271	gacctctatcaagctcagcttaagg	X91270
75272	catattcactgaccaactaaagacc	X91270
75273	ccaactaaagaccaagatcaatatc	X91270
75274	cgtgacagcggtcaagttgagcaca	AA073625
75275	acagtggtagccactgtaggccaag	AA073625
75276	ggcttacactgacatcaaagtgatt	AA073625
75277	cttacactgacatcaaagtgattgg	AA073625
75278	tacactgacatcaaagtgattggta	AA073625
75279	attggtaatggctcattcggagtag	AA073625
75280	tggtaatggctcattcggagtagta	AA073625
75281	aatggctcattcggagtagtaatcc	AA073625
75282	tggctcattcggagtagtaatccag	AA073625
75283	agtagtaatccaggcacggctggat	AA073625
75284	tagtaatccaggcacggctggatga	AA073625
75285	actggtggccatcaagaaggttctt	AA073625
75286	tggtagccactgtaggccaaggcca	AA073625
75287	gtagccactgtaggccaaggccaga	AA073625
75288	agccactgtaggccaaggccagagc	AA073625
75289	ccactgtaggccaaggccagagcgt	AA073625
75290	ccaaggccagagcgttcccaagaag	AA073625
75291	ggccagagcgttcccaagaagtggc	AA073625
75292	ccagagcgttcccaagaagtggctt	AA073625
75293	gtggcttacactgacatcaaagtga	AA073625
75294	tacatctttgattgggctctggttg	U28937
75295	gattgggctctggttgaataaacct	U28937
75296	tcaactatcaatcagcctgatgatg	U28937
75297	actatcaatcagcctgatgatggca	U28937
75298	atcaatcagcctgatgatggcaaat	U28937
75299	ttccatatttctgcgcataaggctt	U28937
75300	tctgcgcataaggcttccaaaacaa	U28937
75301	gatgttattcaaaccctggggcaca	U28937
75302	caaaccctggggcacaatctgtggt	U28937
75303	ttctaatcgccacctagtggctata	U28937
75304	taatcgccacctagtggctatacaa	U28937
75305	tcgccacctagtggctatacaaata	U28937
75306	taaacctagggcatagcatattaat	U28937
75307	caaataaatgcatcacattgcaaag	U28937
75308	gtgtcatccctggattcctttattt	U28937
75309	tcatccctggattcctttatttaca	U28937
75310	gaagattttccccagagaatgacaa	U28937
75311	tttccccagagaatgacaagtggtt	U28937
75312	tttgacaacacactctaggccttct	U28937

SEQ ID NO	sequence	DBAxnID
117849	aagcctgtgtgcgtgatgtgctgaa	AA162215
117850	tgatccccatgggcctggctcgaag	J03549
117851	tatttcctatgctgggctctgtgct	J03549
117852	tcgatgtgtctcctagactcgtggg	J03549
117853	tgtctcctagactcgtgggctttgt	J03549
117854	ctagactcgtgggctttgtcacgat	J03549
117855	gctttgtcacgatcccaccaaccta	J03549
117856	caacctacactatgagtttcttgtc	J03549
117857	tcttgtcccgttgatcctgggctgc	J03549
117858	cccgttgatcctgggctgcatgagg	J03549
117859	gatcctgggctgcatgaggttaaag	J03549
117860	ggacacttcgtagacttgcagagga	J03549
117861	cacttcgtagacttgcagaggatat	J03549
117862	ctatgctgggctctgtgctgaaaga	J03549
117863	atgcctttgtgccctttttccattgg	J03549
117864	tggaactcttcctcttcctcacaaa	J03549
117865	tcttcctcacaaacatcatgcagaa	J03549
117866	tcacaaacatcatgcagaacttcca	J03549
117867	acatcatgcagaacttccacttcaa	J03549
117868	acttccacttcaaatccacacaggc	J03549
117869	caccccaggacatcgatgtgtctcc	J03549
117870	ccacctgctgagtagtgcctgtggg	U24233
117871	caggagcctgctccaagcttctgct	U24233
117872	aagtcctagctcttgccagatggtt	U24233
117873	tagctcttgccagatggttctgagc	U24233
117874	ttgccagatggttctgagcccgcct	U24233
117875	tgctccactgggctggagagctccc	U24233
117876	ctcccacatttacccagtaggcata	U24233
117877	catttacccagtaggcatacctgcc	U24233
117878	acctgccacaccagtgtctggacac	U24233
117879	cacaccagtgtctggacacaaaatg	U24233
117880	gccaggtgtccagcaccattttcct	U24233
117881	tgtccagcaccattttccttttctgt	U24233
117882	cctgctccaagcttctgctggggct	U24233
117883	ttctgctggggctgccttggccgtg	U24233
117884	acagtgctaggttgaccaggtgttt	U24233
117885	tttcctagtgttcccctggccatag	U24233
117886	agtgttcccctggccatagtcgcca	U24233
117887	aggttgcagctgccctggtatgtgg	U24233
117888	cagctgccctggtatgtggatcaga	U24233
117889	gatcagaagtcctagctcttgccag	U24233
117890	agaactcactgcttttctctgctcc	M82874
117891	tcacaccaaactcctagctctacaa	M82874
117892	ctttctctagtgcaagtatgtgtgg	M82874
117893	tggaatagtgtcccttctcagcctc	M82874
117894	ctccagtcctgtgtactccattcct	M82874
117895	cagtcctgtgtactccattcctctt	M82874
117896	tcctgtgtactccattcctcttacc	M82874
117897	caccaagagcagaccctgggatctg	M82874
117898	accctgggatctgtgtctggtgtcc	M82874
117899	ctgggatctgtgtctggtgtcctgt	M82874
117900	tggttgcattcctaatttcctacaa	M82874
117901	aaagtgacctcgatctagtaccaga	M82874
117902	actcctagctctacaaggatattta	M82874
117903	tattaccgagttatgcactttgggg	M82874
117904	gggctccttgcagcttgctttagct	M82874
117905	ctccttgcagcttgctttagctgag	M82874
117906	gcagcttgctttagctgaggtcctc	M82874
117907	gcttgctttagctgaggtcctcttg	M82874
117908	cttcttctttctctagtgcaagtat	M82874
117909	cttctttctctagtgcaagtatgtg	M82874
117910	gcctccagcagtcttcagcgccttt	X59060
117911	tccagcagtcttcagcgccttttct	X59060
117912	ctcacagatgccagcttttatgaaa	X59060
117913	acagatgccagcttttatgaaaggc	X59060
117914	atatcggaacgcctagtagcttagc	X59060
117915	gaacgcctagtagcttagctctaga	X59060
117916	cgcctagtagcttagctctagaacc	X59060

TABLE 1

SEQ ID NO	sequence	DBAxnID
32709	ttaccactgtcaaagggatcgctga	W98592
32710	actgtcaaagggatcgctgatgatt	W98592
32711	gccagaacatatccaagttcctaat	W98592
32712	ccagaacatatccaagttcctaata	W98592
32713	agaacatatccaagttcctaataag	W98592
32714	gaacatatccaagttcctaataaga	W98592
32715	acatatccaagttcctaataagatt	W98592
32716	catatccaagttcctaataagattt	W98592
32717	tatccaagttcctaataagatttgg	W98592
32718	gatttgggtgcctaggacgatctgc	W98592
32719	atttgggtgcctaggacgatctgct	W98592
32720	gtgcctaggacgatctgcttaaggt	W98592
32721	attcactacagggtgacagcgccag	W98592
32722	tcactacagggtgacagcgccagaa	W98592
32723	cactacagggtgacagcgccagaac	W98592
32724	ggtgacagcgccagaacatatccaa	W98592
32725	gtgacagcgccagaacatatccaag	W98592
32726	gacagcgccagaacatatccaagtt	W98592
32727	acagcgccagaacatatccaagttc	W98592
32728	gcgccagaacatatccaagttccta	W98592
32729	ccaaaattgttctcaactgtgacct	D29763
32730	tcaactgtgacctcttggtagtcct	D29763
32731	ccttcctgccactgtgttatggcat	D29763
32732	gcagctacattctggagaggagcag	D29763
32733	acattctggagaggagcagatgtcc	D29763
32734	gatgtccaaggacccaggaatgtgg	D29763
32735	gtcaagaacccccaggagcaatctc	D29763
32736	aacccccaggagcaatctcagtccg	D29763
32737	caggagcaatctcagtccggaccga	D29763
32738	ggaccgaggccactttgtacatatg	D29763
32739	aggccactttgtacatatgatgtat	D29763
32740	tgggctccagccagagaacaatctt	D29763
32741	gtgacctcttggtagtcctggcgtg	D29763
32742	gtccctctctaaaggctcagaattg	D29763
32743	ctctaaaggctcagaattggacagt	D29763
32744	tgggccccactggatggatactcac	D29763
32745	gatggatactcacgctccacaccaa	D29763
32746	agagcccttccttgaagtttatctg	D29763
32747	cttccttgaagtttatctggctgtt	D29763
32748	ttatctggctgttacaaatgtctcc	D29763
32749	gaactagtatcctgagagtgccaga	AA124352
32750	ctagtatcctgagagtgccagagaa	AA124352
32751	gctcttcgcattgttcgcttccggc	AA124352
32752	tcccttcaactgggatctcccggag	AA124352
32753	caagattcgagtgcaccctcggggc	AA124352
32754	gattcgagtgcaccctcggggcaac	AA124352
32755	gcaccctcggggcaacctctgggcg	AA124352
32756	ggggaccccctataagcatgcctca	AA124352
32757	taagcatgcctcattctccttggtc	AA124352
32758	gcatgcctcattctccttggtcctc	AA124352
32759	tgcctcattctccttggtcctcagt	AA124352
32760	ctcattctccttggtcctcagtttc	AA124352
32761	agagcctgtttggcacagcatgacc	AA124352
32762	gcctgtttggcacagcatgacccgg	AA124352
32763	tgtttggcacagcatgacccggcaa	AA124352
32764	cagcatgacccggcaagcagggagc	AA124352
32765	catgacccggcaagcagggagctct	AA124352
32766	ccgtggtctcctgctcttcgcattg	AA124352
32767	tctcctgctcttcgcattgttcgct	AA124352
32768	cctgctcttcgcattgttcgcttcc	AA124352
32769	gttcccctggctcctgtaatgcatt	W98695
32770	cccctggctcctgtaatgcattcgc	W98695
32771	ctcatgtgcgcgacagaccaaggac	W98695
32772	aactgtgttttctgcgaatgtgaaa	W98695
32773	tgtgttttctgcgaatgtgaaatgt	W98695
32774	cacacattgtgcactttctcacaga	W98695
32775	acattgtgcactttctcacagactc	W98695
32776	actttctcacagactctagatactc	W98695

SEQ ID NO:	sequence	DBAxnID
75313	gacaacacactctaggccttctatt	U28937
75314	taggccttctattaaaagcaattct	U28937
75315	aagctcgtactgatgggcaaagaca	AA073593
75316	agctcgtactgatgggcaaagacag	AA073593
75317	cagagagacccatcaagttcaacgt	AA073593
75318	atgtttgatgtgacctcaagagttg	AA073593
75319	atgtgacctcaagagttgcttacta	AA073593
75320	gtgacctcaagagttgcttactagg	AA073593
75321	tgacctcaagagttgcttactagga	AA073593
75322	acctcaagagttgcttactaggatg	AA073593
75323	ttgcttactaggatgtgcctagctg	AA073593
75324	tactaggatgtgcctagctggcgta	AA073593
75325	actaggatgtgcctagctggcgtag	AA073593
75326	taggatgtgcctagctggcgtagag	AA073593
75327	gtgcaccgctcgtcttccataccaa	AA073593
75328	tcttccataccaacagagagaccca	AA073593
75329	cttccataccaacagagagacccat	AA073593
75330	tccataccaacagagagacccatca	AA073593
75331	ccataccaacagagagacccatcaa	AA073593
75332	ataccaacagagagacccatcaagt	AA073593
75333	taccaacagagagacccatcaagtt	AA073593
75334	ccaacagagagacccatcaagttca	AA073593
75335	tgatgcattgcgtcaagggcattgg	D31966
75336	attgcgtcaagggcattggcaaaga	D31966
75337	gggaaatcttccggcatgagaaact	D31966
75338	gtgaagccatcaagatcctgatggg	D31966
75339	ccatcaagatcctgatggggaagtg	D31966
75340	cttggatcttttgcactgctgtgct	D31966
75341	tcttttgcactgctgtgctgttact	D31966
75342	tagaggtccctttccagtctcattt	D31966
75343	tccagtctcatttccagtcaataca	D31966
75344	ctcatttccagtcaatacattttat	D31966
75345	ttaaatgtgccacagacacctttgc	D31966
75346	gtgccacagacacctttgcctttgt	D31966
75347	gcaaagaccatgccaagttctcacc	D31966
75348	accatgccaagttctcaccagtggc	D31966
75349	ccaagttctcaccagtggccacagc	D31966
75350	acagactgctaccggccatcactct	D31966
75351	tgctaccggccatcactctgcttga	D31966
75352	agtgtttctcccctggcgtgattga	D31966
75353	tggccaatgctcggctggatacctt	D31966
75354	ataccttcagcagggaaatcttccg	D31966
75355	taaacctaaatcccaacctgcagag	X57337
75356	taaatcccaacctgcagagacacca	X57337
75357	tacagtccaaccaggaccagatcct	X57337
75358	ccaaccaggaccagatcctcaataa	X57337
75359	aggaccagatcctcaataacctaag	X57337
75360	tcaataacctaagcaagaggaagtg	X57337
75361	cccaacctaggacagctgcctgatg	X57337
75362	cagctgcctgatgtcctagccagat	X57337
75363	cctgatgtcctagccagattacagc	X57337
75364	ttacagcctcagagctcatccaaat	X57337
75365	cctcagagctcatccaaataaatgt	X57337
75366	agctcatccaaataaatgtttcttg	X57337
75367	caacttctgttccagtagcctagtg	X57337
75368	ctgttccagtagcctagtggtgaca	X57337
75369	cagtagcctagtggtgacaggaaca	X57337
75370	cactgtcactgtcagtctccttggt	X57337
75371	cccagtggcacctctctgaagttgt	X57337
75372	ctgctgatgggtcaggtggaagaaa	X57337
75373	atccttcctccagagagcttcgtgg	X57337
75374	cctccagagagcttcgtggttctct	X57337
75375	tgtatctgtcagggatcgttgtgac	Z71268
75376	ctggtacctacttgtcagatggagc	Z71268
75377	tacagataacactttcatttgcact	Z71268
75378	taacactttcatttgcactgggagc	Z71268
75379	tttcatttgcactgggagctcttct	Z71268
75380	ttgcactgggagctcttcttgtgtg	Z71268

SEQ ID NO:	sequence	DBAxnID
117917	gcttagctctagaaccctgattttg	X59060
117918	tttactatgatcacgtgacccttttt	X59060
117919	actatgatcacgtgacccttttttg	X59060
117920	agttcattcctgtctaaatcaaaga	X59060
117921	ttcctgtctaaatcaaagagagaac	X59060
117922	cttcagcgcctttcttccatcgtgg	X59060
117923	cagcgcctttcttccatcgtggaca	X59060
117924	cgcctttcttccatcgtggacagta	X59060
117925	aagtaactcagccagcatttggaac	X59060
117926	ctcagccagcatttggaacattctt	X59060
117927	ttggaacattcttcacccagcagga	X59060
117928	gaacattcttcacccagcaggaaga	X59060
117929	ttagggctcacagatgccagctttt	X59060
117930	tgctttcttcagtatccccggctgt	W18309
117931	gctttcttcagtatccccggctgtt	W18309
117932	ctaccctcctgtgagactgtcctgt	W18309
117933	ccctcctgtgagactgtcctgtcca	W18309
117934	ctcctgtgagactgtcctgtccagg	W18309
117935	ctgtgagactgtcctgtccaggaaa	W18309
117936	tgtgagactgtcctgtccaggaaat	W18309
117937	gactgtcctgtccaggaaatctggg	W18309
117938	caaccctgtaataggcaaggaggag	W18309
117939	tttccattcgtggggaagaaggcag	W18309
117940	tccattcgtggggaagaaggcagga	W18309
117941	ggaaatcacagttcatcacttgagc	W18309
117942	cttcagtatccccggctgtttccat	W18309
117943	gaaatcacagttcatcacttgagca	W18309
117944	ttcagtatccccggctgtttccatg	W18309
117945	cagtatccccggctgtttccatggc	W18309
117946	tatccccggctgtttccatggccag	W18309
117947	cccggctgtttccatggccagcagc	W18309
117948	ctgtttccatggccagcagccgccg	W18309
117949	tagcagcttcagcatggaagaggag	W18309
117950	cagcttcagcatggaagaggagtcc	W18309
117951	gactgcatcatggaggcgcgtttca	AA144411
117952	ctgcatcatggaggcgcgtttcaca	AA144411
117953	cagcactgtcagagccgcgttttct	AA144411
117954	gcactgtcagagccgcgttttctct	AA144411
117955	tctctgtggccgagcttcaagcacg	AA144411
117956	tctgtggccgagcttcaagcacgct	AA144411
117957	tggccgagcttcaagcacgcttggc	AA144411
117958	agcttcaagcacgcttggctgccct	AA144411
117959	tcaagcacgcttggctgccctgggc	AA144411
117960	aagcacgcttggctgccctgggccg	AA144411
117961	ctgccctgggccgacaagtgggcgc	AA144411
117962	tgggcgcccgagtcctagatgccct	AA144411
117963	tcacacgcgggaagtcggcgctgct	AA144411
117964	cccgagtcctagatgccctggtggc	AA144411
117965	acacgcgggaagtcggcgctgctag	AA144411
117966	ctgagcgcctttgcccttctcttct	AA144411
117967	ttctcttctccgagctggtgcagca	AA144411
117968	ctcttctccgagctggtgcagcact	AA144411
117969	cttctccgagctggtgcagcactgt	AA144411
117970	tccgagctggtgcagcactgtcaga	AA144411
117971	tgcagcactgtcagagccgcgtttt	AA144411
117972	cgatctgctctacgagggctaccgg	M37030
117973	tctgctctacgagggctaccgggct	M37030
117974	gatgcaagcccagatgcagcagagc	M37030
117975	agcccagatgcagcagagccaggct	M37030
117976	ccaggctcagggcgagcaatcagat	M37030
117977	ctctgctcaccgctaatcggctatc	M37030
117978	tgctcaccgctaatcggctatccca	M37030
117979	ggcctgcccttgcacttaaaccaga	M37030
117980	ctgcccttgcacttaaaccagatcc	M37030
117981	ctctaagaggaccgcactccaagaa	M37030
117982	tattcctccaagttctccatctaat	M37030
117983	tcctccaagttctccatctaataaa	M37030
117984	caagctttcccggcaaagtgccaca	M37030

TABLE 1

SEQ ID NO	sequence	DBAxnID
32777	ttctcacagactctagatactcgcc	W98695
32778	tcacagactctagatactcgccaga	W98695
32779	actctagatactcgccagatttcaa	W98695
32780	gatactcgccagatttcaagatagt	W98695
32781	ctggctcctgtaatgcattcgcaaa	W98695
32782	tcttttggcaacaacatctcttcgc	W98695
32783	tttggcaacaacatctcttcgctga	W98695
32784	ggcaacaacatctcttcgctgattt	W98695
32785	aacatctcttcgctgatttctctgt	W98695
32786	atctcttcgctgatttctctgtgaa	W98695
32787	tcttcgctgatttctctgtgaacag	W98695
32788	gaaaggctcatgtgcgcgacagacc	W98695
32789	cgatttacctggcctcctcatacca	U39904
32790	tttacctggcctcctcataccagga	U39904
32791	caacatacaacgagcacatcaccaa	U39904
32792	acaacgagcacatcaccaaacgcgt	U39904
32793	acgagcacatcaccaaacgcgtggc	U39904
32794	agcacatcaccaaacgcgtggcctc	U39904
32795	agtccccaggccgaatgctcagcac	U39904
32796	ccccaggccgaatgctcagcactag	U39904
32797	gccgaatgctcagcactaggagaga	U39904
32798	gaatgctcagcactaggagagagcg	U39904
32799	aggtctgggaccagtcttcagtata	U39904
32800	tctgggaccagtcttcagtataagt	U39904
32801	tggcctcctcataccaggacaagtt	U39904
32802	cctcctcataccaggacaagttaag	U39904
32803	gcactgagcagcaccgggtgccctc	U39904
32804	ccaacaagcgaggcccaccaacata	U39904
32805	acaagcgaggcccaccaacatacaa	U39904
32806	agcgaggcccaccaacatacaacga	U39904
32807	gcccaccaacatacaacgagcacat	U39904
32808	caccaacatacaacgagcacatcac	U39904
32809	ctttgtcatcacaaaacccgatgtc	U48363
32810	tgtcatcacaaaacccgatgtctac	U48363
32811	acagttagcagctgctgagaaattc	U48363
32812	tgtttcaaacattcaggaaaacact	U48363
32813	tcagactccaaccgtccaagaggag	U48363
32814	agaactggtcatgtcgcaagcaaac	U48363
32815	ggtcatgtcgcaagcaaacgtatca	U48363
32816	catgtcgcaagcaaacgtatcaaga	U48363
32817	gtactgtttctatcactaataaagt	U48363
32818	ctgtttctatcactaataaagttgt	U48363
32819	tttctatcactaataaagttgtggc	U48363
32820	ttgtggcttcttgttggatggactc	U48363
32821	catcacaaaacccgatgtctacaag	U48363
32822	tgtggcttcttgttggatggactca	U48363
32823	acccgatgtctacaagagccctgct	U48363
32824	gagccctgcttcagacacctacata	U48363
32825	tgcttcagacacctacatagtgttt	U48363
32826	ttcagacacctacatagtgtttggg	U48363
32827	agatttgtctcagcaagcacagtta	U48363
32828	gtctcagcaagcacagttagcagct	U48363
32829	tcagcaagcacagttagcagctgct	U48363
32830	tctccatggagtcacagtcctaaag	X66119
32831	tggagtcacagtcctaaagactatg	X66119
32832	atgatcatattgccctgcatctgtt	X66119
32833	atattgccctgcatctgtttgcttc	X66119
32834	atctgtttgcttctaaagccttcag	X66119
32835	ctaaagccttcagtgttcatgaata	X66119
32836	catagaactctgtagccggaatcta	X66119
32837	actctgtagccggaatctactagaa	X66119
32838	accctgtaacccacgtgctgctgtg	X66119
32839	acgtgctgctgtgaggttaagaaag	X66119
32840	cgtaaagacgctacactgaaaactg	X66119
32841	cattgttgtctgtgtcccctcaatt	X66119
32842	cacagtcctaaagactatggtgccc	X66119
32843	ccatgaactctcttggacttactgc	X66119
32844	actctcttggacttactgccacatt	X66119
75381	gtgtttccatatatctctatgggtt	Z71268
75382	ccatatatctctatgggttacccag	Z71268
75383	tacccagacaagatactacatccat	Z71268
75384	gacaagatactacatccattcaaca	Z71268
75385	atactacatccattcaacaagaagc	Z71268
75386	aatctcaagagattcctataaggac	Z71268
75387	cctacttgtcagatggagctgaaat	Z71268
75388	gattcttctatggctacacgtatta	Z71268
75389	tctatggctacacgtattatgtctg	Z71268
75390	agtatacagacaacatcatgaaagg	Z71268
75391	gcttctctgctgccgcagccattgt	Z71268
75392	ccattgttctttctaccattgcttc	Z71268
75393	ctaccattgcttcagtcctactgtt	Z71268
75394	cagtcctactgtttggattacagat	Z71268
75395	ttgtttacccaggaagatagacaag	AA073696
75396	agacaagacccaggtatcaagacta	AA073696
75397	acctgtgctccaaacagtgtgtcac	AA073696
75398	tgtgctccaaacagtgtgtcactag	AA073696
75399	gattatttccctctgtccttagaga	AA073696
75400	cctctgtccttagagatctttgcaa	AA073696
75401	atctttgcaaaggtgtccaagcaga	AA073696
75402	aagcagaacagcacccggaccagtg	AA073696
75403	gccatcaccctgggcaatgccaagc	AA073696
75404	atcaccctgggcaatgccaagctgg	AA073696
75405	accctgggcaatgccaagctggaca	AA073696
75406	aatgccaagctggacaggatcctgg	AA073696
75407	caagacccaggtatcaagactactt	AA073696
75408	atcaagactactttgttccagcaaa	AA073696
75409	ttgttccagcaaaaacacttcctca	AA073696
75410	cagcaaaaacacttcctcagggtgg	AA073696
75411	cacttcctcagggtggccacctgtg	AA073696
75412	ttcctcagggtggccacctgtgctc	AA073696
75413	gtggccacctgtgctccaaacagtg	AA073696
75414	gccacctgtgctccaaacagtgtgt	AA073696
75415	cagccacggagccatttcctccgtg	D49473
75416	catttcctccgtggtgtccgacgct	D49473
75417	aatccttagcgtcaagctgttttgt	D49473
75418	tattttaagttgccttggcatataat	D49473
75419	tattttgtctgccacttgaacagtt	D49473
75420	ccccacaatcactgtccagttttag	D49473
75421	cactgacttattccatttcttgaaa	D49473
75422	cttattccatttcttgaaagtgtat	D49473
75423	aattttgtcatgcgtgttttctcaa	D49473
75424	gtcatgcgtgttttctcaatcttaa	D49473
75425	tttaaaatctctcgcatcgattttt	D49473
75426	atctctcgcatcgatttttatcaaa	D49473
75427	ctccgtggtgtccgacgctagctca	D49473
75428	cgacgctagctcagcggtctactat	D49473
75429	ctactattgcaactaccccgacatt	D49473
75430	ttgcaactaccccgacatttgacgg	D49473
75431	gacccgacctgagggccagaagcag	D49473
75432	acctgagggccagaagcagtgttac	D49473
75433	gtgttacacacttcctggaagcgct	D49473
75434	cacacttcctggaagcgctaaggaa	D49473
75435	gaatgacgccccaagagctgttgtc	AA073743
75436	acgccccaagagctgttgtcccaat	AA073743
75437	tcaatcgttgggtcgcccaggcaac	AA073743
75438	ttgggtcgcccaggcaacaaggtgt	AA073743
75439	tcgcccaggcaacaaggtgttaatg	AA073743
75440	atctgaatcttgagttcccccatgg	AA073743
75441	ctgaatcttgagttcccccatggaa	AA073743
75442	tgaatcttgagttcccccatggaag	AA073743
75443	aatcttgagttcccccatggaagtg	AA073743
75444	atcttgagttcccccatggaagtgg	AA073743
75445	atattttcattaggtctctgttggc	AA073743
75446	attttcattaggtctctgttggcca	AA073743
75447	cgccccaagagctgttgtcccaatc	AA073743
75448	ccccaagagctgttgtcccaatcaa	AA073743
117985	ttcccggcaaagtgccacagagatc	M37030
117986	aagtgccacagagatcccgctgccc	M37030
117987	agagatcccgctgcccatgttgcct	M37030
117988	gatcccgctgcccatgttgcctctg	M37030
117989	catgttgcctctggctgacactgaa	M37030
117990	gttgcctctggctgacactgaaaag	M37030
117991	gctgcgccgcatgcaagaaatgctg	M37030
117992	accagaggtcacctgccaagatggt	J05277
117993	ccagaggtcacctgccaagatggtt	J05277
117994	tttgctgcacatgcttaaaaatctg	J05277
117995	ttgctgcacatgcttaaaaatctga	J05277
117996	tgctgcacatgcttaaaaatctgag	J05277
117997	tgcacatgcttaaaaatctgagagt	J05277
117998	tgaacaagtcacctaagattctccg	J05277
117999	gaacaagtcacctaagattctccga	J05277
118000	acaagtcacctaagattctccgacg	J05277
118001	caagtcacctaagattctccgacga	J05277
118002	tcacctaagattctccgacgaacct	J05277
118003	tctccgacgaacctacagagctcat	J05277
118004	cagaggtcacctgccaagatggttc	J05277
118005	atgcatatcgcaaagcaccaagtat	J05277
118006	tgcatatcgcaaagcaccaagtatc	J05277
118007	gcatatcgcaaagcaccaagtatct	J05277
118008	catatcgcaaagcaccaagtatctg	J05277
118009	tatcgcaaagcaccaagtatctgaa	J05277
118010	tgaatttttgctgcacatgcttaaa	J05277
118011	ttttgctgcacatgcttaaaaatct	J05277
118012	cgtctacgagtccgccaaagtcctg	AA138777
118013	cgagtccgccaaagtcctgaatgtg	AA138777
118014	tagcgctgcagatccatttcacgtt	AA138777
118015	tgcagatccatttcacgttgattca	AA138777
118016	tccatttcacgttgattcaggcgtt	AA138777
118017	tcacgttgattcaggcgttctgctg	AA138777
118018	tgattcaggcgttctgctgtgagaa	AA138777
118019	ttgatatcgtgcgcgtgggagacgt	AA138777
118020	gacctgcattgcatcctcatttcga	AA138777
118021	cattgcatcctcatttcgaatccta	AA138777
118022	atttcgaatcctaatgaggacacat	AA138777
118023	aatcctaatgaggacacatggaagg	AA138777
118024	cgccaaagtcctgaatgtggaccct	AA138777
118025	agtcctgaatgtggaccctgacaat	AA138777
118026	gaatgtggaccctgacaatgtgacc	AA138777
118027	ggaccctgacaatgtgacctttgc	AA138777
118028	tgacaatgtgacctttgcgtgctg	AA138777
118029	cttttgcgtgctggctgccgatgaa	AA138777
118030	cgtgctggctgccgatgaagaagat	AA138777
118031	ttgacatagcgctgcagatccattt	AA138777
118032	gtatctggggtcacggataacaaca	L13593
118033	acggataacaacatcctggtgttag	L13593
118034	tcaagcaactgcagactccaactgg	L13593
118035	agactccaactgggcaggctggatt	L13593
118036	ctggattacctggatcctacgtgct	L13593
118037	gatcctacgtgcttcatgcactcct	L13593
118038	acgtgcttcatgcactcctttcact	L13593
118039	ttcatgcactcctttcactgagagc	L13593
118040	cactcctttcactgagagctagact	L13593
118041	aaatgtgatttctcttcaggtaaca	L13593
118042	gatttctcttcaggtaacactacag	L13593
118043	tcttcaggtaacactacagagtcat	L13593
118044	atcctggtgttagtgccagactcac	L13593
118045	gtgttagtgccagactcacgagccc	L13593
118046	gactcacgagcccagaacacagctt	L13593
118047	cgagcccagaacacagctttgcttg	L13593
118048	cagaacacagctttgcttgaggaat	L13593
118049	gttccaccatcgcttgaacagaacc	L13593
118050	gccagctttactgcaacctcaagca	L13593
118051	tttactgcaacctcaagcaactgca	L13593
118052	ttcttgcgccagaagtacctggcct	M75953

TABLE 1

SEQ ID NO	sequence	DBAxnID
32845	ccacattagctggtgacacggctga	X66119
32846	gtgacacggctgagctgacttggat	X66119
32847	cggctgagctgacttggatatgtga	X66119
32848	ccacccagtcatcagctagcttcag	X66119
32849	cagctagcttcaggtttagattagg	X66119
32850	agccagggagctctgggcacactag	
32851	cagggagctctgggcacactagcta	
32852	ttaataccatagatagtgcttgctt	
32853	aataccatagatagtgcttgctttc	
32854	accatagatagtgcttgctttccaa	
32855	ccatagatagtgcttgctttccaag	
32856	atagatagtgcttgctttccaagcc	
32857	tagatagtgcttgctttccaagcct	
32858	gatagtgcttgctttccaagcctgg	
32859	agcatggcgaactgggatatagatg	
32860	gcatggcgaactgggatatagatgg	
32861	atggcgaactgggatatagatggct	
32862	agggagctctgggcacactagctaa	
32863	ggagctctgggcacactagctaatg	
32864	gagctctgggcacactagctaatgt	
32865	gctctgggcacactagctaatgtag	
32866	ctctgggcacactagctaatgtagt	
32867	ctgggcacactagctaatgtagtga	
32868	tgggcacactagctaatgtagtgac	
32869	cttaataccatagatagtgcttgct	
32870	ttatactggagccagcatgaatcca	U48397
32871	agccagcatgaatccagctcgatct	U48397
32872	tttctgccacccattaaggaacaga	U48397
32873	ctgccacccattaaggaacagattt	U48397
32874	gacacttgcgggtttcttcttcaca	U48397
32875	tttcttcttcacacttgttacacag	U48397
32876	cttcttcacacttgttacacagttt	U48397
32877	cacatatttctatatacatggggcc	U48397
32878	atatttctatatacatggggccttt	U48397
32879	ttaactctaattcactataatcctc	U48397
32880	actctaattcactataatcctctcc	U48397
32881	ctcagaatccaagaacccatagggc	U48397
32882	cagcatgaatccagctcgatctttt	U48397
32883	catgaatccagctcgatctttgga	U48397
32884	aagagactccctagacctggcctca	U48397
32885	agactccctagacctggcctcagat	U48397
32886	ctccctagacctggcctcagatttc	U48397
32887	cctagacctggcctcagatttctgc	U48397
32888	agacctggcctcagatttctgccac	U48397
32889	ctcagatttctgccacccattaagg	U48397
32890	ggcttcagtctgaagtcccatctca	AA063762
32891	agtctgaagtcccatctcagtcaac	AA063762
32892	ctttagagaagccttccatggctct	AA063762
32893	agaagccttccatggctctcatatg	AA063762
32894	cttccatggctctcatatgtgtaac	AA063762
32895	ccatggctctcatatgtgtaacagc	AA063762
32896	cagcatcttagccatcttaaccatc	AA063762
32897	catcttagccatcttaaccatcaga	AA063762
32898	cttagccatcttaaccatcagacct	AA063762
32899	catcttaaccatcagacctacagac	AA063762
32900	cttaaccatcagacctacagacgag	AA063762
32901	aaccatcagacctacagacgagggg	AA063762
32902	ctgaagtcccatctcagtcaacatc	AA063762
32903	agtttcagttggagctgtagcctct	AA063762
32904	agctgtagcctcttcaaacatctgc	AA063762
32905	agcctcttcaaacatctgcgtacca	AA063762
32906	ctcttcaaacatctgcgtaccacga	AA063762
32907	catctgcgtaccacgagaggacaga	AA063762
32908	ctgcgtaccacgagaggacagatcc	AA063762
32909	cataagcacctgaagcatacaggag	AA063762
32910	tcctgtgcctcacagcccaggggac	D00622
32911	ctcaggctcagagtcaactgctggg	D00622
32912	tcctgactaagctctcagatatcag	D00622
75449	cccaagagctgttgtcccaatcaat	AA073743
75450	gagctgttgtcccaatcaatcgttg	AA073743
75451	agctgttgtcccaatcaatcgttgg	AA073743
75452	tcccaatcaatcgttgggtcgccca	AA073743
75453	cccaatcaatcgttgggtcgcccag	AA073743
75454	caatcaatcgttgggtcgcccaggc	AA073743
75455	aacgaggctctggctatgcagaagc	X81816
75456	tatgaccgcctgctagaagaacatg	X81816
75457	gcccagactatccctctggtacttg	X81816
75458	cccaattttcttccatggcttatag	X81816
75459	tattttggcaccattacacatactg	X81816
75460	attacacatactgctcttataccaa	X81816
75461	catactgctcttataccaaaaggga	X81816
75462	cagagtacttttgccactgttctgc	X81816
75463	gccactgttctgcctggctagggca	X81816
75464	tagggcactttccactcctggaagt	X81816
75465	aaagcactggtgacctggcctgcag	X81816
75466	atgtaccctaaaggaggctgctgtg	X81816
75467	gaacatgccaaactgcaggcatcag	X81816
75468	gccaaactgcaggcatcagtacgtg	X81816
75469	ctgcaggcatcagtacgtggtccct	X81816
75470	gtacgtggtccctcagtcaagaagg	X81816
75471	ggtccctcagtcaagaaggaggagt	X81816
75472	taaaggcttggtgtttccctgcctg	X81816
75473	ggcttctacctgacccatgcttact	X81816
75474	gcttactgcttccttggagcccaga	X81816
75475	ccgcctgctggactggttccgttcg	AA073769
75476	ctgctggactggttccgttcgctct	AA073769
75477	agaccaccttcgtcaatgtcatcgc	AA073769
75478	caccttcgtcaatgtcatcgcgtcc	AA073769
75479	ttcgtcaatgtcatcgcgtccggtc	AA073769
75480	cgtcaatgtcatcgcgtccggtcaa	AA073769
75481	aatgtcatcgcgtccggtcaattca	AA073769
75482	tgtcatcgcgtccggtcaattcagt	AA073769
75483	tcatcgcgtccggtcaattcagtga	AA073769
75484	atcgcgtccggtcaattcagtgaag	AA073769
75485	cgtccggtcaattcagtgaagatat	AA073769
75486	gatatgatacccacagtgggcttca	AA073769
75487	tggactggttccgttcgctcttctg	AA073769
75488	ttccgttcgctcttctggaaggagg	AA073769
75489	ctgcagtactccggcaagaccacct	AA073769
75490	gcagtactccggcaagaccaccttc	AA073769
75491	tactccggcaagaccaccttcgtca	AA073769
75492	ccggcaagaccaccttcgtcaatgt	AA073769
75493	ggcaagaccaccttcgtcaatgtca	AA073769
75494	caagaccaccttcgtcaatgtcatc	AA073769
75495	catccttgagtgaccagacttttct	D37797
75496	tgagtgaccagacttttctattagt	D37797
75497	acagtcagctctacccatctgagaa	D37797
75498	agctctacccatctgagaaagaaga	D37797
75499	taccacaatcattatcatcttcccc	D37797
75500	ccaacttggctatgctggggccaac	D37797
75501	tggctatgctggggccaactctgac	D37797
75502	ccctctgctctctttctcttatact	D37797
75503	ttctgacattttgcttgaggctgag	D37797
75504	cattttgcttgaggctgagctctct	D37797
75505	gctctctgtcatcaagtcatttggg	D37797
75506	tgtcatcaagtcatttggggaagtc	D37797
75507	gggttcactgagcttttctgaacat	D37797
75508	gaagtcaggtcccagcaaaatctaa	D37797
75509	actgagcttttctgaacatatgtct	D37797
75510	tgaacatatgtcttactcatatgag	D37797
75511	ttactcatatgagtcttccatggtg	D37797
75512	atatgagtcttccatggtgctgtgg	D37797
75513	gtcttccatggtgctgtggttggag	D37797
75514	ggaccagacatagctgtgagacaca	D37797
75515	agaggcagtccctccagtaagaagt	D37797
75516	agtcgtatgacgaacggctgagagc	AA073791
118053	ttgcgccagaagtacctggcctccg	M75953
118054	tcgtcgctcttcgcgctgcagaatc	M75953
118055	tcgctcttcgcgctgcagaatctgc	M75953
118056	ctgcagccctgggcggaagacaaca	M75953
118057	cagccctgggcggaagacaacaagg	M75953
118058	ctcgcctcggtggtgtgaccgacac	M75953
118059	gcctcggtggtgtgaccgacacctg	M75953
118060	gtgtgaccgacacctgcccgacgag	M75953
118061	gccgtaccgccagcgaagagtgagg	M75953
118062	tcctctgaggctctttggtcatcag	M75953
118063	gaggctctttggtcatcagtcggcc	M75953
118064	cgccagaagtacctggcctccgcag	M75953
118065	aagtacctggcctccgcagagaggg	M75953
118066	atgacggacgcgcaggtcaagacct	M75953
118067	ttccagaaccgacgcaccaagtggc	M75953
118068	cgcctgctgctgcacctgcagcaag	M75953
118069	ctgcacctgcagcaagacgcgctgc	M75953
118070	gacccgctttgcctgcacaactcgt	M75953
118071	aactcgtcgctcttcgcgctgcaga	M75953
118072	tggccaagagcccaaagaaggcgaa	J03482
118073	ggccaagagcccaaagaaggcgaag	J03482
118074	gtaaagccaaaggctgccaagccca	J03482
118075	taaagccaaaggctgccaagcccaa	J03482
118076	agccaaaggctgccaagcccaaggt	J03482
118077	gccaaaggctgccaagcccaaggtt	J03482
118078	gctgccaagcccaaggttgccaagg	J03482
118079	ctgccaagcccaaggttgccaaggc	J03482
118080	tgccaagcccaaggttgccaaggcc	J03482
118081	ttgccaaggccaagaaggttgcagc	J03482
118082	taacaatccaaaaggctcttttcag	J03482
118083	acaatccaaaaggctcttttcagag	J03482
118084	gcgaaggtcaccaagcccaagaagg	J03482
118085	ggtcaccaagcccaagaaggtcaag	J03482
118086	gtcaccaagcccaagaaggtcaaga	J03482
118087	tcaccaagcccaagaaggtcaagag	J03482
118088	caccaagcccaagaaggtcaagagc	J03482
118089	accaagcccaagaaggtcaagagcg	J03482
118090	tctaaagccgtaaagccaaaggctg	J03482
118091	agccgtaaagccaaaggctgccaag	J03482
118092	gattacattagctatgtctggcaga	J00422
118093	attacattagctatgtctggcagag	J00422
118094	gcgccatcgcaaagtcttgcgtgac	J00422
118095	ccatcgcaaagtcttgcgtgacaac	J00422
118096	catcgcaaagtcttgcgtgacaaca	J00422
118097	caaagtcttgcgtgacaacatccag	J00422
118098	aaagtcttgcgtgacaacatccagg	J00422
118099	gtcttgcgtgacaacatccagggta	J00422
118100	cttgcgtgacaacatccagggtatc	J00422
118101	cctctacggcttcggaggctagacg	J00422
118102	ctacggcttcggaggctagacgccg	J00422
118103	tacggcttcggaggctagacgccgc	J00422
118104	tacattagctatgtctggcagagga	J00422
118105	attagctatgtctggcagaggaaag	J00422
118106	ttagctatgtctggcagaggaaagg	J00422
118107	ggcgccaagcgccatcgcaaagtct	J00422
118108	cgccaagcgccatcgcaaagtcttg	J00422
118109	gccaagcgccatcgcaaagtcttgc	J00422
118110	caagcgccatcgcaaagtcttgcgt	J00422
118111	aagcgccatcgcaaagtcttgcgtg	J00422
118112	tcccaggtctaggcgcttccagtgg	W45750
118113	ccaggtctaggcgcttccagtggct	W45750
118114	ttgcacaagtgacttctgggcccag	W45750
118115	acaagtgacttctgggcccagttct	W45750
118116	aagtgacttctgggcccagttctgg	W45750
118117	gacttctgggcccagttctggggca	W45750
118118	tgggcccagttctggggcaaagatg	W45750
118119	ggcccagttctggggcaaagatgcc	W45750
118120	cccagttctggggcaaagatgcctg	W45750

TABLE 1

SEQ ID NO	sequence	DBAxnID
32913	ctaagctctcagatatcagatcctg	D00622
32914	tctcagatatcagatcctgcaaact	D00622
32915	atatcagatcctgcaaacttcctgg	D00622
32916	tagcagctctgccacctagcaacag	D00622
32917	ctctgccacctagcaacagtgactg	D00622
32918	gaaagtcctcaggctgacaggtcac	D00622
32919	cctcaggctgacaggtcaccagtca	D00622
32920	tcctctcactatgcgtgctacggca	D00622
32921	tacggcacatgggttcacacaatga	D00622
32922	ctgtcagatgcaccttcactaatgt	D00622
32923	tttgtctccatccctagagccagag	D00622
32924	gccagagcgcatggctgcatgctaa	D00622
32925	gcgcatggctgcatgctaaggctta	D00622
32926	tatacagcccagtgaaccatctcag	D00622
32927	gagagcccacagctatgttagggag	D00622
32928	gcagatctctagtcaggaggccact	D00622
32929	ctctagtcaggaggccactcctgac	D00622
32930	cacttatgtgccctactcatctctg	X13538
32931	tgtgccctactcatctctgctcctg	X13538
32932	cagacgcacgtgctgacgggacatg	X13538
32933	aagcagcgtcagctcagcttctaac	X13538
32934	ttctaactctctctctcgtagcagc	X13538
32935	ctctcgtagcagctactagctacta	X13538
32936	tagcagctactagctactagtactt	X13538
32937	ctactagctactagtacttggacta	X13538
32938	ttgttgtcttatactggggcacagc	X13538
32939	tcttatactggggcacagcgttggg	X13538
32940	gcattagactcacttacaactgtac	X13538
32941	cttacaactgtacagagagatatgg	X13538
32942	atctctgctcctgtcctcatctgct	X13538
32943	agacattatccctggttggtgtgac	X13538
32944	caacctgctgacctggacaactttg	X13538
32945	ctggacaactttgccaggattggat	X13538
32946	aactttgccaggattggatacctgt	X13538
32947	taagaaagcactggccatcgacatc	X13538
32948	agcactggccatcgacatctttgag	X13538
32949	cgacatctttgagtcagccagacgc	X13538
32950	actgcacaccgtgcctttcacagga	L13103
32951	agcacttttcagctaatcagtatt	L13103
32952	tttctttggatcaaagctggactga	L13103
32953	ctactgctgtttattccagtttcta	L13103
32954	attccagtttctactacctcaggtg	L13103
32955	gtttctactacctcaggtgtcctat	L13103
32956	tttcttctaccaaagttcactctca	L13103
32957	aagttcactctcagaatgaaattct	L13103
32958	aaattctacgtgctgtgtgactatg	L13103
32959	gactatgactcctaagacttccagg	L13103
32960	aactcctattagcaccttactatgt	L13103
32961	tattagcaccttactatgtaagcaa	L13103
32962	ttttcagctaatcagtattaccatg	L13103
32963	taccatgtacatcaacatgcccgcc	L13103
32964	tcaaactcagactgtcccagatgtc	L13103
32965	tcagactgtcccagatgtcaagatc	L13103
32966	tgtcccagatgtcaagatccactgt	L13103
32967	agatgtcaagatccactgtgtttga	L13103
32968	tttgcagttccctcagcttgctggt	L13103
32969	tcagcttgctggtaattgtggtgtt	L13103
32970	agataatggcagacccttggcagga	AA152733
32971	tggcagacccttggcaggagtgcat	AA152733
32972	tgctcatgtcttctataaaggaaaa	AA152733
32973	ctcatgtcttctataaaggaaaagt	AA152733
32974	aaagtatccatgtcacagcttcatt	AA152733
32975	agtatccatgtcacagcttcattgg	AA152733
32976	tatccatgtcacagcttcattggtg	AA152733
32977	tgtcacagcttcattggtgaagagt	AA152733
32978	tcacagcttcattggtgaagagtct	AA152733
32979	agaagacggtcttcacagagcagcc	AA152733
32980	aagacggtcttcacagagcagccca	AA152733

SEQ ID NO:	sequence	DBAxnID
75517	gtatgacgaacggctgagagcccag	AA073791
75518	cgttgagatcgtcgacgagtcttgc	AA073791
75519	tgatgcagcaggagcacccaagttc	AA073791
75520	atgcagcaggagcacccaagttcga	AA073791
75521	tgcagcaggagcacccaagttcgac	AA073791
75522	agcaggagcacccaagttcgacgag	AA073791
75523	gcaggagcacccaagttcgacgaga	AA073791
75524	caggagcacccaagttcgacgagat	AA073791
75525	aggagcacccaagttcgacgagatc	AA073791
75526	ggagcacccaagttcgacgagatcg	AA073791
75527	gagcacccaagttcgacgagatcga	AA073791
75528	tatgacgaacggctgagagcccaga	AA073791
75529	cccagaccgcgcgcgttgagatcgt	AA073791
75530	ccagaccgcgcgcgttgagatcgtc	AA073791
75531	cagaccgcgcgcgttgagatcgtcg	AA073791
75532	agaccgcgcgcgttgagatcgtcga	AA073791
75533	gaccgcgcgcgttgagatcgtcgac	AA073791
75534	accgcgcgcgttgagatcgtcgacg	AA073791
75535	ccgcgcgcgttgagatcgtcgacga	AA073791
75536	acctacagatctacagccggcagca	AA073795
75537	tctacagccggcagcatatggaacg	AA073795
75538	ctgacactgtataccgggcacttcg	AA073795
75539	ttcgtactgagcatcgggaccaggc	AA073795
75540	ccagcaagagactgctccagttcta	AA073795
75541	agagactgctccagttctatgcaga	AA073795
75542	agttctatgcagagaccttcccagc	AA073795
75543	tctatgcagagaccttcccagcgcc	AA073795
75544	atgcagagaccttcccagcgcctga	AA073795
75545	ccttcccagcgcctgaacgtggtgg	AA073795
75546	cagtgcaggaccgcctgttgcagag	AA073795
75547	tgcagagcaacccgtgttagaggcc	AA073795
75548	atatggaacgctaccgtggtgtcag	AA073795
75549	tggaacgctaccgtggtgtcagttt	AA073795
75550	tctatgaagtaccacctcatttgtt	AA073795
75551	aagtaccacctcatttgtttgcagt	AA073795
75552	taccacctcatttgtttgcagtggc	AA073795
75553	atttgtttgcagtggctgacactgt	AA073795
75554	tgtttgcagtggctgacactgtata	AA073795
75555	tggctgacactgtataccgggcact	AA073795
75556	cttgatcctgctcctacagcctctg	D43643
75557	ctggttccacatgctgggaccggga	D43643
75558	tatgccactgctagagccttcaaga	D43643
75559	gccactgctagagccttcaagatca	D43643
75560	gctagagccttcaagatcatccgtg	D43643
75561	gccttcaagatcatccgtgaggcgt	D43643
75562	aagatcatccgtgaggcgtacaaga	D43643
75563	atcatccgtgaggcgtacaagaagt	D43643
75564	aagtacatcactgcccacggacttc	D43643
75565	gagccactacctggctctgggcctc	D43643
75566	cgagccttgcgtcagaagattgtca	D43643
75567	tagagacacctgacccctagacagt	D43643
75568	gttccacatgctgggaccgggactg	D43643
75569	tctcgcaccttcatcacgttcagtg	D43643
75570	cgcaccttcatcacgttcagtgatg	D43643
75571	atcacgttcagtgatgatgcaacgt	D43643
75572	gaccctgttacagacataccctatg	D43643
75573	gttacagacataccctatgccactg	D43643
75574	acagacataccctatgccactgcta	D43643
75575	gacataccctatgccactgctagag	D43643
75576	agacaccactgctcagctttcttgg	X99043
75577	gagaccaggacctgacaaccacagc	X99043
75578	gctcaaagctcaccttcttctgaga	X99043
75579	agctcaccttcttctgagaagccat	X99043
75580	ttagcccagcactcctcttgagcaa	X99043
75581	cagcactcctcttgagcaacctgct	X99043
75582	tcctcttgagcaacctgctactcca	X99043
75583	tgagcaacctgctactccagaacac	X99043
75584	tactccagaacaccactgctcttct	X99043

SEQ ID NO:	sequence	DBAxnID
118121	gcaaagatgcctgcccttcacatcg	W45750
118122	tgagcaacttcgcaaagaagtcaag	W45750
118123	agcaacttcgcaaagaagtcaagtt	W45750
118124	aggcgcttccagtggctcccttgca	W45750
118125	gcgcttccagtggctcccttgcaca	W45750
118126	gcttccagtggctcccttgcacaag	W45750
118127	ttccagtggctcccttgcacaagtg	W45750
118128	agtggctcccttgcacaagtgactt	W45750
118129	tggctcccttgcacaagtgacttct	W45750
118130	gctcccttgcacaagtgacttctgg	W45750
118131	tcccttgcacaagtgacttctgggc	W45750
118132	cctctactgcacatgcgcacattgg	M74555
118133	atgcgcacattggttgtttacccat	M74555
118134	atatgcacttttcaccattgccaat	M74555
118135	acttttcaccattgccaattgcttg	M74555
118136	caccattgccaattgcttgcatctc	M74555
118137	gcatctccctcagtttctatactgt	M74555
118138	ccctcagtttctatactgttacgct	M74555
118139	taagtcccaggccttgtgaggtgga	M74555
118140	agggcccatcagtttaatgccactt	M74555
118141	catcagtttaatgccactttcaact	M74555
118142	tttaatgccactttcaactgtagaa	M74555
118143	attatcaggcactatgcaatgcaat	M74555
118144	gttgtttacccatattcatgggcgt	M74555
118145	tacccatattcatgggcgtcagctt	M74555
118146	tcagcttattgaaaccagtgccatc	M74555
118147	tattgaaaccagtgccatcttgtaa	M74555
118148	aaccagtgccatcttgtaatggcgt	M74555
118149	tttattggcttcccatactccctag	M74555
118150	ggcttcccatactccctagcacagg	M74555
118151	actgtaaaggcccataggtatggag	M74555
118152	agacagctccgacgcagactacgga	AA072334
118153	acagctccgacgcagactacggacc	AA072334
118154	tccggaaacactagccggggatcat	AA072334
118155	cggaaacactagccggggatcatga	AA072334
118156	gaaacactagccggggatcatgagt	AA072334
118157	aacactagccggggatcatgagtgg	AA072334
118158	cactagccggggatcatgagtggct	AA072334
118159	atcatgagtggctgtcgagtgttca	AA072334
118160	gctgtcgagtgttcattgggagact	AA072334
118161	tgtcgagtgttcattgggagactaa	AA072334
118162	tcttcaagggttacggacggatcag	AA072334
118163	tttgaggacccaagggatgcagatg	AA072334
118164	agctccgacgcagactacggacctc	AA072334
118165	acggacctctccaggtctcagccgt	AA072334
118166	ggacctctccaggtctcagccgtca	AA072334
118167	ctctccaggtctcagccgtcaaaga	AA072334
118168	ctccaggtctcagccgtcaaagacc	AA072334
118169	ccaggtctcagccgtcaaagaccct	AA072334
118170	aggtctcagccgtcaaagaccctgt	AA072334
118171	gtctcagccgtcaaagaccctgtcc	AA072334
118172	acttgtgatctccaaggacaagagg	M60523
118173	tgtgatctccaaggacaagaggagc	M60523
118174	tggtcagcagctgggcaacgtcact	M60523
118175	tcagcagctgggcaacgtcactctg	M60523
118176	ttttccgagaatggggtgtcgagag	M60523
118177	ctgcgcactctgccaaggcagcata	M60523
118178	actctgccaaggcagcataagagct	M60523
118179	ctgccaaggcagcataagagctgtt	M60523
118180	tctggtttccttggagaaaagctct	M60523
118181	ctctgctgccctgattatgaactct	M60523
118182	tgctgccctgattatgaactctata	M60523
118183	ctttctgtaatcatgtgatgtatat	M60523
118184	actctgggactctgggaccctctct	M60523
118185	aagcctgagggcatggatgagcttc	M60523
118186	ttaccctgaactcaacgcctcgagg	M60523
118187	ccctgaactcaacgcctcgaggctg	M60523
118188	actcaacgcctcgaggctggacctg	M60523

TABLE 1

SEQ ID NO	sequence	DBAxnID
32981	gacggtcttcacagagcagcccacg	AA152733
32982	ctatgcagtaatcctcgcgaggcaa	AA152733
32983	gtcttcacagagcagcccacgtggg	AA152733
32984	agtaatcctcgcgaggcaagctgga	AA152733
32985	gattaaaagttctccagccgacttg	AA152733
32986	gttctccagccgacttggtaacagt	AA152733
32987	tctccagccgacttggtaacagtta	AA152733
32988	tccagccgacttggtaacagttact	AA152733
32989	cagccgacttggtaacagttactga	AA152733
32990	aatgctcatgtcttctataaaggaa	AA152733
32991	gacgaggctgccatggctatcgcca	U29148
32992	gagcgcgtgctgcaggtgtccttca	U29148
32993	agcaggcagacccatacacctgcat	U29148
32994	cagacccatacacctgcataaacac	U29148
32995	cctgcataaacaccacagggtgagc	U29148
32996	gcataaacaccacagggtgagcatc	U29148
32997	taaacaccacagggtgagcatccgg	U29148
32998	ctcgtcttggtttggttcatggtga	U29148
32999	gtcttggtttggttcatggtgatgg	U29148
33000	ctgcatgggatggcttaggggacac	U29148
33001	cttgcccaggcctggcctatactga	U29148
33002	caggcctggcctatactgagagaaa	U29148
33003	cgcgtgctgcaggtgtccttcaaga	U29148
33004	gtgctgcaggtgtccttcaagacca	U29148
33005	caggtgtccttcaagaccagcaagc	U29148
33006	gtgtccttcaagaccagcaagcagc	U29148
33007	tccttcaagaccagcaagcagcaca	U29148
33008	accagcaagcagcacaaggcctgag	U29148
33009	agcaagcagcacaaggcctgagcat	U29148
33010	cgcaatctcgagagcaggcagaccc	U29148
33011	ctcctgactcaggtggccaccaaga	W98898
33012	ctgactcaggtggccaccaagaggc	W98898
33013	cagcaacagcagactgccctcttag	W98898
33014	caacagcagactgccctcttagcac	W98898
33015	cagcagactgccctcttagcacaac	W98898
33016	tccctggccactggggagatctgcc	W98898
33017	atctgccggttcagcaccctgattg	W98898
33018	agcaccctgattgaggagctggagg	W98898
33019	accctgattgaggagctggaggaga	W98898
33020	gggctcctgacggatatcagaagca	W98898
33021	ctcctgacggatatcagaagcactc	W98898
33022	atcagaagcactctaataagatgtg	W98898
33023	gtggccaccaagaggcaacaggtga	W98898
33024	gccaccaagaggcaacaggtgatct	W98898
33025	tcacagtttgcgcatctgagccagt	W98898
33026	tttgcgcatctgagccagttcctgc	W98898
33027	gcgcatctgagccagttcctgcagc	W98898
33028	agccagttcctgcagcaacagcaga	W98898
33029	cagttcctgcagcaacagcagactg	W98898
33030	ttcctgcagcaacagcagactgccc	W98898
33031	cagagccagccgttttcaaagccac	U35741
33032	ttttcaaagccacactgaatctctc	U35741
33033	acatgcccttcatggacttcctgac	U35741
33034	tggacttcctgacgaaagatggctt	U35741
33035	agagcccagaggagctgcgtgccat	U35741
33036	agctgcgtgccatattccaggacaa	U35741
33037	gtgccatattccaggacaagaaggt	U35741
33038	tcactgcctgtcacgttgccctggc	U35741
33039	ctgtttacgatggctcctggtcaga	U35741
33040	acgatggctcctggtcagagtggtt	U35741
33041	gctcctggtcagagtggttccgcag	U35741
33042	gtgtgacctgctgtaggttcaccttt	U35741
33043	aagccacactgaatctctccctgct	U35741
33044	cctatgagcaggtcctagagaatct	U35741
33045	tcctagagaatctccagtctaaaag	U35741
33046	gcacacaaccggagccggatatagt	U35741
33047	taggactagactcgggccacatccg	U35741
33048	cgggccacatccgtggctcagtcaa	U35741

SEQ ID NO:	sequence	DBAxnID
75585	ctcttctccattctgtctgcgacat	X99043
75586	gtttctctgtgatcttctgcatgtg	X99043
75587	gattgtaagctccaagtgggcacag	X99043
75588	ccccatcaccatgtatgttatccaa	X99043
75589	caccatgtatgttatccaagctagg	X99043
75590	caatacagttccagatctcgtcgac	X99043
75591	atatgaattccgcactgttgcagct	X99043
75592	cactgttgcagctaatgtgattggc	X99043
75593	agaggctcagaacactggggatcag	X99043
75594	tcagaacactggggatcagagaggt	X99043
75595	ttaagcacagtgagccaggggtcaa	X99043
75596	ctcttttactgtctgtatccagatt	X83542
75597	tactgtctgtatccagattactgta	X83542
75598	atggtcagaaccatgtccatggagc	X83542
75599	agaaccatgtccatggagctcccgg	X83542
75600	cttctccggcagtgtgcagagtcga	X83542
75601	ctgggtttcccacctgcaaagtcat	X83542
75602	ttcccacctgcaaagtcatcaggga	X83542
75603	cctgcaaagtcatcagggaacccag	X83542
75604	tcagggaacccagcttccaggcatt	X83542
75605	aacccagcttccaggcattgtaggg	X83542
75606	gcttccaggcattgtagggagacat	X83542
75607	tggttctctccaacatattttacaa	X83542
75608	ctgtatccagattactgtactgtag	X83542
75609	ggttctctccaacatattttacaat	X83542
75610	ccagattactgtactgtaggctaag	X83542
75611	tactgtactgtaggctaagtaacac	X83542
75612	ttacatgttacatcctctttaggtt	X83542
75613	tctaaccttgtcattagagtcaaac	X83542
75614	tgtcgcaggagactggtgcgtttgc	X83542
75615	cgtttgcattgtctgcaagggtctg	X83542
75616	cattgtctgcaagggtctgttgagg	X83542
75617	catagtctaccatcaaatactttag	U63323
75618	ctaccatcaaatactttaggagtat	U63323
75619	tgatggttcttgccgtaatagaata	U63323
75620	attgcctgtatttctacctctagta	U63323
75621	tgtatttctacctctagtaatgggc	U63323
75622	tctacctctagtaatgggctttatg	U63323
75623	cttgagcctgggcaagtgcacaagt	U63323
75624	cccaactgatcagtttgagagatca	U63323
75625	gagatcattaatgcccctgaagtgg	U63323
75626	tccctcttattatagtattgaaatt	U63323
75627	atttatcaagtcatgttcatgccct	U63323
75628	caagtcatgttcatgccctgatttt	U63323
75629	ggagtatcctaatctttagataga	U63323
75630	taattacctcctaagttctcaagca	U63323
75631	cctcctaagttctcaagcagaggca	U63323
75632	aagttctcaagcagaggcagtctat	U63323
75633	ttgcaaggaccttctttgctgccag	U63323
75634	ggaccttctttgctgccagttacca	U63323
75635	agatgcactttgctcagtaatactt	U63323
75636	gattatccatttggttgttacagaa	U63323
75637	gagcaggctaaccacatttgcttct	D78174
75638	caggctaaccacatttgcttctggg	D78174
75639	tctctgcgaaagcacatgaaagttc	D78174
75640	cccagctctggctacgactcggcta	D78174
75641	agctctggctacgactcggctataa	D78174
75642	tctggctacgactcggctataacgt	D78174
75643	ggctacgactcggctataacgtctg	D78174
75644	tacgactcggctataacgtctgctc	D78174
75645	gactcggctataacgtctgctctcg	D78174
75646	gaatggtacgtgtgttcgggcgcct	D78174
75647	tacgtgtgttcgggcgcctggacca	D78174
75648	accagtggtggctgactctgcagcg	D78174
75649	gctaaccacatttgcttctgggagg	D78174
75650	aaggtctttgctagatcagaaaatc	D78174
75651	atacacaaacgaacacatacaggcg	D78174
75652	agcagcgaccgcaagaaacattcgc	D78174

SEQ ID NO	sequence	DBAxnID
118189	agagctagcacacgctggtcagcag	M60523
118190	gctagcacacgctggtcagcagctg	M60523
118191	cgctggtcagcagctgggcaacgtc	M60523
118192	cttgatggcagccttggcagcagga	M62766
118193	cttggcagcaggacatcttgtcaga	M62766
118194	tctttgcacagagactcctcagatg	M62766
118195	gactcctcagatgtggaaactctgg	M62766
118196	actctggttctttccgtgctgtgtt	M62766
118197	tccgtgctgtgttctggaaagatct	M62766
118198	aagatctcacgtggatggtaccggt	M62766
118199	taccggtgctctgagcaccacagat	M62766
118200	tgctctgagcaccacagatgtgagc	M62766
118201	gagcaccacagatgtgagctacagt	M62766
118202	ttcgtttctgaaagctaccacaagc	M62766
118203	tctgaaagctaccacaagctggaaa	M62766
118204	acatcttgtcagaagtcacatggtt	M62766
118205	ttgaggatcctgacactgaactgaa	M62766
118206	atcctgacactgaactgaagcgcgg	M62766
118207	acactgaactgaagcgcgggcattg	M62766
118208	aaatctcaatgcactgtctagtgga	M62766
118209	cagtgacacccctgcttggtttctg	M62766
118210	tgcttggtttctggcgctttcagag	M62766
118211	gtttctggcgctttcagagacgtct	M62766
118212	ctcacctgagactagacagatgggg	J04179
118213	gcccatctccagagtaagggcctgt	J04179
118214	atacccactattgctgctgctacca	J04179
118215	gctgctgctaccagcgtcagatgtt	J04179
118216	gctaccagcgtcagatgttcatcct	J04179
118217	accagcgtcagatgttcatcctcct	J04179
118218	agatgttcatcctcctgaatttgcc	J04179
118219	tgttcatcctcctgaatttgcctgt	J04179
118220	tcatcctcctgaatttgcctgtatt	J04179
118221	tcctgaatttgcctgtattctctcc	J04179
118222	cccgtggatgctgcagcagagtgag	J04179
118223	tggccagtatttgtcccagcctggg	J04179
118224	cccagtccactctaggctgttcctt	J04179
118225	tcctccgcagggcactaaggagcta	J04179
118226	ccccatggttctggttccatcttct	J04179
118227	catggttctggttccatcttctcct	J04179
118228	tctgttcacaaactacctctggacg	J04179
118229	ttccatgttcattcttagataccca	J04179
118230	gttcattcttagatacccactattg	J04179
118231	tagatacccactattgctgctgcta	J04179
118232	tgtagactctctggtcattgaacac	W57495
118233	gtagactctctggtcattgaacaca	W57495
118234	tgaacacatccaggtgaacaaggct	W57495
118235	gaacacatccaggtgaacaaggctc	W57495
118236	cacatccaggtgaacaaggctccta	W57495
118237	gaacaaggctcctaagatgcgcaga	W57495
118238	caaggctcctaagatgcgcagacga	W57495
118239	aaggctcctaagatgcgcagacgaa	W57495
118240	ggctcctaagatgcgcagacgaacc	W57495
118241	gctcctaagatgcgcagacgaacct	W57495
118242	tcctaagatgcgcagacgaacctac	W57495
118243	gcgcagacgaacctacagagctcac	W57495
118244	agactctctggtcattgaacacatc	W57495
118245	gactctctggtcattgaacacatcc	W57495
118246	ctctctggtcattgaacacatccag	W57495
118247	tctctggtcattgaacacatccagg	W57495
118248	ggtcattgaacacatccaggtgaac	W57495
118249	gtcattgaacacatccaggtgaaca	W57495
118250	cattgaacacatccaggtgaacaag	W57495
118251	attgaacacatccaggtgaacaagg	W57495
118252	agccttcatggacaagtacatgaaa	W18827
118253	catgaaagctattccaactaaggtt	W18827
118254	ggtattatcctgctggcggtacgtg	W18827
118255	atcctgctggcggtacgtgtcttct	W18827
118256	cctgctggcggtacgtgtcttctgc	W18827

TABLE 1

SEQ ID NO	sequence	DBAxnID
33049	acatccgtggctcagtcaacatgcc	U35741
33050	cagtcaacatgcccttcatggactt	U35741
33051	attacctgtctctgccgccagatat	U38940
33052	tgtctctgccgccagatatgagaat	U38940
33053	tgtctgcagcctcccagaagtttcc	U38940
33054	gccattacccaggccgggctgattg	U38940
33055	ctcattattggatgcctaagtggat	U38940
33056	attataagtcagctgccaaagctta	U38940
33057	agtcagctgccaaagcttaggcact	U38940
33058	ctgccaaagcttaggcactctctac	U38940
33059	aagcttaggcactctctacactctt	U38940
33060	aatgagactcagccatcagtcaccc	U38940
33061	actcagccatcagtcacccaggctt	U38940
33062	gtcacccaggcttacttaggcatga	U38940
33063	atctcctgagagagacttttgagga	U38940
33064	actgcaacctgctacccaaagagat	U38940
33065	acctgctacccaaagagattctctg	U38940
33066	tacccaaagagattctctggcgacc	U38940
33067	ccaaagaagccttcagtgatgggat	U38940
33068	aagccttcagtgatgggatcacctc	U38940
33069	cagtcaagaactcctggttcaagat	U38940
33070	aaatgatgtctgcagcctcccagaa	U38940
33071	tacctctttctagtaacaatattgc	AA117387
33072	ctctttctagtaacaatattgctca	AA117387
33073	gacgctctaactcttgcagcagcat	AA117387
33074	gctctaactcttgcagcagctttc	AA117387
33075	gcatttctgtagcttcctgtatctc	AA117387
33076	ctgtagcttcctgtatctcggaatg	AA117387
33077	cttcctgtatctcggaatgggagca	AA117387
33078	cctgtatctcggaatgggagcagaa	AA117387
33079	aactatctccattcagcacacctgt	AA117387
33080	tatctccattcagcacacctgtcaa	AA117387
33081	tcagcacacctgtcaatgtcacctc	AA117387
33082	cctcccttgcaaggcataggcagca	AA117387
33083	ctcagatttccaacggccagcaact	AA117387
33084	agatggtccccacattcagcagtga	AA117387
33085	agatttccaacggccagcaactcat	AA117387
33086	ccaacggccagcaactcatgagcca	AA117387
33087	tcatgagccagccgcagctacacag	AA117387
33088	agccgcagctacacagacgctctaa	AA117387
33089	cgcagctacacagacgctctaactc	AA117387
33090	agctacacagacgctctaactcttg	AA117387
33091	acagacgctctaactcttgcagcag	AA117387
33092	tccagagatgccgagtacggactgt	U37522
33093	tactccatctatcagggaggattgt	U37522
33094	acagacactttcggtgtttcatcga	U37522
33095	actttcggtgtttcatcgagagact	U37522
33096	tctttccgcaaaatgagatcactgt	U37522
33097	atgagatcactgtagcctttcaatg	U37522
33098	tagcctttcaatgatctacctggta	U37522
33099	ttcaatgatctacctggtatcagtt	U37522
33100	gatctacctggtatcagtttgcaga	U37522
33101	tgacaattttcacctttgttatctg	U37522
33102	caagtgctcacaagctgtgtgcaga	U37522
33103	ctcacaagctgtgtgcagaccagga	U37522
33104	taatcttctaggttgaaggcatgcc	U37522
33105	ttgaaggcatgcctggaaagcgact	U37522
33106	gatatggcctggctgtagaaacctc	U37522
33107	ctgtagaaacctcaggacagatgtg	U37522
33108	actcagcagcgacaggccaacagtc	U37522
33109	cagcgacaggccaacagtccagcca	U37522
33110	caggccaacagtccagccacagaca	U37522
33111	aacagtccagccacagacactttcg	U37522
33112	acgtgcacccagggcagtgcatgca	W98998
33113	gggctgcgcaactcattgtactcat	W98998
33114	agcaacactttggcagtctcatagc	W98998
33115	aacactttggcagtctcatagctgc	W98998
33116	ttggcagtctcatagctgccctcac	W98998
75653	agcgaccgcaagaaacattcgcacg	D78174
75654	cacacgagcgacaagccttatatgt	D78174
75655	acgagcgacaagccttatatgtgca	D78174
75656	agcgacaagccttatatgtgcaagg	D78174
75657	cagcgcagagcccaagccttgatga	L24430
75658	aatctcctcaactgtggcttggcat	L24430
75659	tatggcttaaagaccgcctacagac	L24430
75660	ttaaagaccgcctacagacgcatct	L24430
75661	tacagacgcatctacggtatcacta	L24430
75662	atcactatttaggacctgtgctgcc	L24430
75663	gacctgtgctgccctaaagccaaac	L24430
75664	cctaaagccaaactctggcagctcg	L24430
75665	gccaaactctggcagctcggctttg	L24430
75666	ggctgctctccagaacttgatcctc	L24430
75667	tctccagaacttgatcctccctgtc	L24430
75668	tctctgccctgcaagtatggatgtc	L24430
75669	tgtggcttggcatgctagagaagta	L24430
75670	gaacagacaagtcccacacagcagc	L24430
75671	cttggtgcacacctagcagacacca	L24430
75672	gcacacctagcagacaccatgagga	L24430
75673	ctctgtctctctgacctcacagatg	L24430
75674	gacaaagccttcatgtccaagcagg	L24430
75675	ctatgtgagcttgaccctgcttgtg	L24430
75676	gaccctgcttgtgacgagctatcaa	L24430
75677	ctttgcctccattctcaagtctgtc	U43384
75678	ctccattctcaagtctgtctggtac	U43384
75679	tatctaccttactggctgggatgaa	U43384
75680	ggccaatcactttgctgtgcaccat	U43384
75681	tcactttgctgtgcaccatgatgag	U43384
75682	tgctgtgcaccatgatgaggagaaa	U43384
75683	gatcacaggcctaaaacagaagact	U43384
75684	gttcaagaccattgcaagtgaacac	U43384
75685	tgaagccttggctgaaactctcagt	U43384
75686	cttggctgaaactctcagtaaacag	U43384
75687	taaacagagcatctccaactcagaa	U43384
75688	tggagtccacttcattttcaacaag	U43384
75689	ttgtgataatgccaccagtctgaaa	U43384
75690	caccagtctgaaactcaaaaagatc	U43384
75691	ctactggctgtgcagggacacgcat	U43384
75692	cagggacacgcatgcctttgagtgg	U43384
75693	agacctgctgcagctgctggagacc	U43384
75694	caatgccaacttcctcagctacaat	U43384
75695	caacttcctcagctacaatatctac	U43384
75696	ctacaatatctaccttactggctgg	U43384
75697	ttaatgacgccccgagagttgtctt	AA079902
75698	atgacgccccgagagttgtcttcat	AA079902
75699	atgacccacagagaacgagatgtat	AA079902
75700	gatgtatcgagcctctgtagtcccc	AA079902
75701	agcctctgtagtcccctgttgatga	AA079902
75702	aggttattaccaccagctgatgata	AA079902
75703	ttattaccaccagctgatgatatgg	AA079902
75704	ccaccagctgatgatatggtgaaga	AA079902
75705	atattctatgatgaccgtgttgtgc	AA079902
75706	ttctatgatgaccgtgttgtgcccc	AA079902
75707	tatgatgaccgtgttgtgccccaag	AA079902
75708	tgaccgtgttgtgccccaagaagac	AA079902
75709	acgccccgagagttgtcttcataca	AA079902
75710	ttgtcttcatacatatcgtggctcg	AA079902
75711	atatcgtggctcgcacaccaccaca	AA079902
75712	tcgtggctcgcacaccaccacagtg	AA079902
75713	gcacaccaccacagtgtcacagtgt	AA079902
75714	caccaccacagtgtcacagtgtgta	AA079902
75715	aaggggtcccatgtatgggatatga	AA079902
75716	gatatgacccacagagaacgagatg	AA079902
75717	cctccagagagcaactactcctctt	AA079926
75718	cagagagcaactactcctcttgggg	AA079926
75719	acaatctgctggtgcctgcccaata	AA079926
75720	caatctgctggtgcctgcccaatag	AA079926
118257	cggtacgtgtcttctgccatgccta	W18827
118258	gtacgtgtcttctgccatgcctatt	W18827
118259	acgtgtcttctgccatgcctatttt	W18827
118260	gtgtcttctgccatgcctattttgc	W18827
118261	cttctgccatgcctattttgcctga	W18827
118262	tctgccatgcctattttgcctgagc	W18827
118263	ccatgcctattttgcctgagccctg	W18827
118264	ttaccgccaaggaagatgaagatga	W18827
118265	gcctattttgcctgagccctgcctt	W18827
118266	aagatgacagacacttctgagaagc	W18827
118267	gatgacagacacttctgagaagcct	W18827
118268	tgacagacacttctgagaagccttt	W18827
118269	acacttctgagaagcctttgtggag	W18827
118270	ctgagaagcctttgtggaggacagt	W18827
118271	acatcaacggtattatcctgctggc	W18827
118272	acggtattatcctgctggcggtacg	W18827
118273	tgttactgcaagaaacccacctggt	M57966
118274	tgcaagaaacccacctggtactcca	M57966
118275	gtaactgcacaggaggcaaaccagg	M57966
118276	ctacacagagactcttctagacaat	M57966
118277	agagactcttctagacaataagaca	M57966
118278	gatcagcactgaccagggcagagct	M57966
118279	gccttgtacccaagcctgcatgcag	M57966
118280	tacccaagcctgcatgcagcctagc	M57966
118281	agcctgcatgcagcctagcactaag	M57966
118282	ctctggcacctgactgtcagtgact	M57966
118283	agtgactgacttacctgtggtatta	M57966
118284	tgacttacctgtggtattaacaagt	M57966
118285	tactccaagtgtgctaccattcctg	M57966
118286	gctaccattcctggagtcctgaagc	M57966
118287	taagatgccccctaacattcggca	M57966
118288	gccccctaacattcggcacagagg	M57966
118289	gctcagtggcccaatatctgcgtgg	M57966
118290	aatatctgcgtggtaagtgggatgc	M57966
118291	tttgattccccagcactgacggtcg	M57966
118292	gcactgacggtcgttggtgtaactg	M57966
118293	gcgcactgagctgcagctgctcaac	M85271
118294	cactgagctgcagctgctcaaccag	M85271
118295	cactcgggagcagctggccaggaag	M85271
118296	gaaccgccgagccaagtggagacga	M85271
118297	acgacagaagcgatcctcctcggag	M85271
118298	caagacgtcctcaaaagcctcgccg	M85271
118299	cgatttggactcggacagctgacgg	M85271
118300	cgcttgcctgacgcaaggacttgca	M85271
118301	acttgcacagacagtcgatgctact	M85271
118302	acagacagtcgatgctacttgcaca	M85271
118303	aatgtacaggcccaggactgctggg	M85271
118304	gtacaggcccaggactgctggggac	M85271
118305	gcagctgctcaaccagctgcactgt	M85271
118306	gctgctcaaccagctgcactgtcgg	M85271
118307	caccatcttcaccgatgagcagctc	M85271
118308	catcttcaccgatgagcagctcgaa	M85271
118309	cttcaccgatgagcagctcgaagcc	M85271
118310	gcagctcgaagccctggagaacctc	M85271
118311	gacgaagtacccagacgtgggcact	M85271
118312	cccagacgtgggcactcgggagcag	M85271
118313	aaccagctctgctggaactggaagg	L12367
118314	ttgatgacactgagctgaagcaggt	L12367
118315	ggcaaaattaactccattacagtag	L12367
118316	agaactccctggactgtgagatagt	L12367
118317	agaagttggtcaccacagtgacaga	L12367
118318	aagttggtcaccacagtgacagaaa	L12367
118319	gttggtcaccacagtgacagaaatc	L12367
118320	gcaaatacatgggtcctgtgccctc	L12367
118321	ctcccttcacaccatgggatacatc	L12367
118322	tcacaccatgggatacatctgtatg	L12367
118323	acaccatgggatacatctgtatgga	L12367
118324	atacatctgtatggagacggttctt	L12367

TABLE 1

SEQ ID NO	sequence	DBAxnID
33117	gcagtctcatagctgccctcacggg	W98998
33118	gtctcatagctgccctcacgggcgg	W98998
33119	ggagtctcctccttgttgttctgca	W98998
33120	ttctgcatgtccttgttggctccgt	W98998
33121	tgcatgtccttgttggctccgttct	W98998
33122	atgtccttgttggctccgttcttca	W98998
33123	ttgttggctccgttcttcaggagca	W98998
33124	ctgcgcaactcattgtactcatcca	W98998
33125	ttcttcaggagcacaacagcagcat	W98998
33126	tcattgtactcatccaaaagccgca	W98998
33127	ttgtactcatccaaaagccgcacga	W98998
33128	tccaaaagccgcacgatatcgtggt	W98998
33129	atatcgtggtgcatacgctcctgtg	W98998
33130	tcgtggtgcatacgctcctgtgcga	W98998
33131	cgcggcaatcggtccatgtgatccg	W98998
33132	tccatgtgatccgtgatgtcccggt	W98998
33133	cagttcaggtcatcactggatatca	U38690
33134	tcactggatatcagctgcctgttta	U38690
33135	ctgctccagcttctggaaatggccc	U38690
33136	tgtttaaccctgagaacagactgag	U38690
33137	ctcttgttactcaagatgactactt	U38690
33138	ttactcaagatgactacttcaagga	U38690
33139	gagtacatcacttcagaagaagtcg	U38690
33140	atcacttcagaagaagtcgggcagt	U38690
33141	tgcttaaatctgatcatctctgcta	U38690
33142	aatctgatcatctctgctaactcat	U38690
33143	atcatctctgctaactcatctcagg	U38690
33144	gacaaatcactcagactttctataa	U38690
33145	gatatcagctgcctgtttataacta	U38690
33146	ctgtttataactaccagatgccacc	U38690
33147	accagatgccaccgcagtggcctgc	U38690
33148	ctgttaattaccactgcagtgaagt	U38690
33149	attaccactgcagtgaagttgatcc	U38690
33150	ctgatattttgcccaatgaatgttc	U38690
33151	ttttgcccaatgaatgttcagttca	U38690
33152	cagttcatgatgctgctccagcttc	U38690
33153	cgcactaccagcacgtggccagacg	W99018
33154	accagcacgtggccagacgtggatc	W99018
33155	tgagcacgctcaccgtgcgctcagg	W99018
33156	gcacgctcaccgtgcgctcaggagc	W99018
33157	tcaccgtgcgctcaggagctgcgtc	W99018
33158	ccgtgcgctcaggagctgcgtccac	W99018
33159	tgcgctcaggagctgcgtccacaga	W99018
33160	gagctgcgtccacagatccggtcag	W99018
33161	ccacagatccggtcagcttcgcctt	W99018
33162	atccggtcagcttcgccttggtgaa	W99018
33163	tcagcttcgccttggtgaatacttg	W99018
33164	gcttcgccttggtgaatacttgggt	W99018
33165	tggccagacgtggatccagagaaga	W99018
33166	aagacccagcagatgcgctattccg	W99018
33167	cagcagatgcgctattccggtccga	W99018
33168	atgcgctattccggtccgaggccac	W99018
33169	cgctattccggtccgaggccacctg	W99018
33170	ggtccgaggccacctgtcaggtaga	W99018
33171	ccgaggccacctgtcaggtagatcc	W99018
33172	gactgagcacgctcaccgtgcgctc	W99018
33173	tggcaactacagaaccacatgccac	W99059
33174	ctacagaaccacatgccacaccgtg	W99059
33175	ctttgtctatgacccactgctcaac	W99059
33176	tgtctatgacccactgctcaactgg	W99059
33177	actgctcaactggaggctgatggac	W99059
33178	cacaaataccaaaggcaataagcgg	W99059
33179	aaggacagactcctactctgccggc	W99059
33180	ctcctactctgccggccagtcagta	W99059
33181	tggagaaccagcccataagatagca	W99059
33182	agaaccagcccataagatagcaggg	W99059
33183	agggaccactgtgccagaatccatc	W99059
33184	ccattcattcattggagacggtttg	W99059

SEQ ID NO:	sequence	DBAxnID
75721	aatctgctggtgcctgcccaatagg	AA079926
75722	atctgctggtgcctgcccaataggt	AA079926
75723	tctgctggtgcctgcccaataggtt	AA079926
75724	ctgctggtgcctgcccaataggttc	AA079926
75725	tgctggtgcctgcccaataggttcg	AA079926
75726	ctggtgcctgcccaataggttcggt	AA079926
75727	tggtgcctgcccaataggttcggtt	AA079926
75728	agagagcaactactcctcttggggg	AA079926
75729	gagagcaactactcctcttggggga	AA079926
75730	gagcaactactcctcttgggggaat	AA079926
75731	caagcaatcctttgaaaacaatctg	AA079926
75732	aagcaatcctttgaaaacaatctgc	AA079926
75733	cctttgaaaacaatctgctggtgcc	AA079926
75734	ctttgaaaacaatctgctggtgcct	AA079926
75735	ttgaaaacaatctgctggtgcctgc	AA079926
75736	gctcattgtgctccccaaggacgtg	U54705
75737	tgtgctccccaaggacgtggaggat	U54705
75738	gtcccggatcttacagcacaaggat	U54705
75739	gatcttacagcacaaggatgaattc	U54705
75740	caaattctgttctccttagctggca	U54705
75741	tccttagctggcagggccttgccaa	U54705
75742	ttgccaagtctcagggaacttgtct	U54705
75743	agtctcagggaacttgtctgtagtc	U54705
75744	tgtagtcgcagagctctgtaaactt	U54705
75745	taaactttgtatccagacaatcact	U54705
75746	ccagacaatcactttctatacaata	U54705
75747	aatcactttctatacaataaattgt	U54705
75748	tgagtccacaggcctggagaagatt	U54705
75749	caacccagaaacattgttacagtgg	U54705
75750	ccccagtaccatggccaatgccaaa	U54705
75751	taccatggccaatgccaaagtcaaa	U54705
75752	gatgattgatcccaaggctagtctg	U54705
75753	aagtctcttcaatgaaagtacatcg	U54705
75754	agtgtccctgtcaaatgtgattcat	U54705
75755	gtccatcgaggtgccagggtcccgg	U54705
75756	agactaggactgcttagccttcctt	U63386
75757	cttagccttccttatcctggagtgg	U63386
75758	ctgaatatttcttctgcattcatgg	U63386
75759	tctgcattcatggcagggtcaccag	U63386
75760	ttcatggcagggtcaccagccatca	U63386
75761	gcagggtcaccagccatcatagaca	U63386
75762	gctgttgccattctttctgcacccc	U63386
75763	aacgctgctctgtcctatagcttca	U63386
75764	gctctgtcctatagcttcacaaaac	U63386
75765	tcctatagcttcacaaaacaggagc	U63386
75766	taccttgggcactattccttataca	U63386
75767	gggcactattccttatacaaaatat	U63386
75768	ctagccagggttcacttctccaagg	U63386
75769	gtaggtttgcctccctatgggagag	U63386
75770	ggtcagctttcctagcttatgacag	U63386
75771	gcaaacctggtactctgctggagtc	U63386
75772	ctggtactctgctggagtctcactg	U63386
75773	ctctgctggagtctcactgtggctg	U63386
75774	ctcactgtggctgtagctcagtttt	U63386
75775	tcattttctcccttaatactgaata	U63386
75776	ctggctggccagcaggagggtcatt	D32132
75777	tgtttgcatttcagcaagtgacttc	D32132
75778	tttgcctttttgtgaaggcggaactg	D32132
75779	tcctcataggaaagcactcagcctg	D32132
75780	taggaaagcactcagcctgcgtggg	D32132
75781	agcactcagcctgcgtgggcgtagg	D32132
75782	ccatggggcctcacctcaaggtcca	D32132
75783	tggggcctcacctcaaggtccacat	D32132
75784	tcaaggtccacatggccttggctgt	D32132
75785	tccacatggccttggctgtctgatg	D32132
75786	ctgtctgatgcgcgctcacagtggg	D32132
75787	aactcttggtcatgtgggagaacac	D32132
75788	ttcagcaagtgacttctgcgaagtt	D32132

SEQ ID NO	sequence	DBAxnID
118325	tgacactgagctgaagcaggtggct	L12367
118326	acactgagctgaagcaggtggctta	L12367
118327	ttacatctacaagtgtgtcaacaca	L12367
118328	acatctacaagtgtgtcaacacaac	L12367
118329	gtgtgtcaacacaacattgcaaatc	L12367
118330	gtcaacacaacattgcaaatcaagg	L12367
118331	caacacaacattgcaaatcaagggc	L12367
118332	acacaacattgcaaatcaagggcaa	L12367
118333	tttctccacagattcctgcctgcag	M95599
118334	cacagattcctgcctgcagctttca	M95599
118335	ttgaccaggtggctttgccttcttt	M95599
118336	tcttcttgatctacccctactctct	M95599
118337	actctctcaaatgttgaggactttc	M95599
118338	agttttaaagccatctcttgcaaat	M95599
118339	atctcttgcaaattatgttggcgtt	M95599
118340	ttacacagaacccaacaagcttcta	M95599
118341	agaacccaacaagcttctatgtgat	M95599
118342	caacaagcttctatgtgattttcct	M95599
118343	ttgtaccacattagaatgcattgtc	M95599
118344	cattgtcatgcgtatttttggtaga	M95599
118345	gctttcagatgcactgtcgcccagc	M95599
118346	agatgcactgtcgcccagcttgcct	M95599
118347	tggctccctggacagtcctgtagat	M95599
118348	cctggacagtcctgtagatatctca	M95599
118349	cagctttgacttttttacagacaca	M95599
118350	ttttacagacacactcaccacaatc	M95599
118351	actcaccacaatcgacctacagcat	M95599
118352	acagcatctgaattactaagaacat	M95599
118353	ccgcagaccgtgccgacgtgccgag	W29356
118354	ttcgggacacctccgctgtcgccaa	W29356
118355	ccaaatgccgcaagcgcaactgtga	W29356
118356	aatgccgcaagcgcaactgtgagcg	W29356
118357	ccgcaagcgcaactgtgagcgtatc	W29356
118358	cgcaagcgcaactgtgagcgtatct	W29356
118359	gcaagcgcaactgtgagcgtatctc	W29356
118360	caagcgcaactgtgagcgtatctcg	W29356
118361	aagcgcaactgtgagcgtatctcgc	W29356
118362	gcaactgtgagcgtatctcgcgcct	W29356
118363	caactgtgagcgtatctcgcgcctg	W29356
118364	ctgcgcgacaggtaggcgcacgtca	W29356
118365	caagaacgcatcaaggcggacgcga	W29356
118366	gaacgcatcaaggcggacgcgaaga	W29356
118367	aacgcatcaaggcggacgcgaagag	W29356
118368	acgcatcaaggcggacgcgaagagg	W29356
118369	gcatcaaggcggacgcgaagaggct	W29356
118370	catcaaggcggacgcgaagaggctg	W29356
118371	atcaaggcggacgcgaagaggctgc	W29356
118372	tccaaatgccgcaagcgcaactgtg	W29356
118373	gcgtcgtcaacatcactggcaggca	W18950
118374	tcaacatcactggcaggcacgatga	W18950
118375	ctatctcctgagggtacacttactc	W18950
118376	tctcctgagggtacacttactcgtg	W18950
118377	ggtacacttactcgtggaggcatcc	W18950
118378	acacttactcgtggaggcatccggt	W18950
118379	ggcatccggttgccgaagcagtcac	W18950
118380	cggttgccgaagcagtcacgcattc	W18950
118381	ttgccgaagcagtcacgcattcagc	W18950
118382	cggagatcaccattccaggttacta	W18950
118383	agatcaccattccaggttactatta	W18950
118384	ttccaggttactattagaggccgcg	W18950
118385	aacatggctacatctctctggtgct	W18950
118386	atggctacatctctctggtgcttca	W18950
118387	gctacatctctctggtgcttcaccc	W18950
118388	tctctctggtgcttcacccgggata	W18950
118389	cacgcatcctccagtgtgtggagcc	W18950
118390	gcatcctccagtgtgtggagcctat	W18950
118391	ctatccctagtgtcctcatccctat	W18950
118392	tcatccctatctcctgagggtacac	W18950

TABLE 1

SEQ ID NO	sequence	DBAxnID
33185	aaccacatgccacaccgtgatggaa	W99059
33186	atgccacaccgtgatggaagtgctc	W99059
33187	ccacaccgtgatggaagtgctccgg	W99059
33188	agtgctccgggaacacaaggacagt	W99059
33189	cagtgtcatggctgtgctggaagcc	W99059
33190	tgtcatggctgtgctggaagccttt	W99059
33191	tgtgctggaagcctttgtctatgac	W99059
33192	agcctttgtctatgacccactgctc	W99059
33193	aaccaaataccactgcctgaggcgt	AA162538
33194	caaataccactgcctgaggcgtaca	AA162538
33195	attgttcaacttgatgctggccatc	AA162538
33196	gttcaacttgatgctggccatcttg	AA162538
33197	caacttgatgctggccatcttgagc	AA162538
33198	gatgctggccatcttgagcattttt	AA162538
33199	tttttcagagtctccaaccaaagtg	AA162538
33200	agagtctccaaccaaagtgcagcta	AA162538
33201	gtctccaaccaaagtgcagctagtg	AA162538
33202	tccaaccaaagtgcagctagtggga	AA162538
33203	tgtggtgtgccgagagctcaattgt	AA162538
33204	gtgccgagagctcaattgtggagca	AA162538
33205	ccactgcctgaggcgtacagcctgt	AA162538
33206	atcgtcagctgcctgggccatggct	AA162538
33207	agctgcctgggccatggctccattg	AA162538
33208	ctgggccatggctccattgttcaac	AA162538
33209	ggccatggctccattgttcaacttg	AA162538
33210	catggctccattgttcaacttgatg	AA162538
33211	ggctccattgttcaacttgatgctg	AA162538
33212	tccattgttcaacttgatgctggcc	AA162538
33213	gaactggccaagcgcatcactgagc	AA002287
33214	cgtcttggtgctgaattggggaaat	AA002287
33215	ctgatcatggcgtatcactgaagac	AA002287
33216	gcgtatcactgaagaccgcctgcgc	AA002287
33217	cactgaagaccgcctgcgccaggaa	AA002287
33218	agaccgcctgcgccaggaatatcat	AA002287
33219	ccgcctgcgccaggaatatcattgg	AA002287
33220	cctgcgccaggaatatcattggcgt	AA002287
33221	acttcccctacagcaagcaaagcaa	AA002287
33222	tcccctacagcaagcaaagcaagat	AA002287
33223	cctacagcaagcaaagcaagatgcg	AA002287
33224	ggggctccattgtgtgcaagctcct	AA002287
33225	atcaaagaatctgttcgtggccaag	AA002287
33226	ccattgtgtgcaagctcctggcatc	AA002287
33227	gaatctgttcgtggccaagatattt	AA002287
33228	tctgttcgtggccaagatattttca	AA002287
33229	atacagacaatacccagagatgtga	AA002287
33230	cagacaatacccagagatgtgaata	AA002287
33231	acaatacccagagatgtgaatacgg	AA002287
33232	aatacggctgtgatggagctgctga	AA002287
33233	gagctgctgatcatggcgtatcact	AA002287
33234	tggcctcctgatgggagaagcagcc	U41497
33235	agaagcagccaaacagctgagacgg	U41497
33236	cagccctcagcatcaggagctcttc	U41497
33237	ccctcagcatcaggagctcttccgg	U41497
33238	ggagctcttccggaacttcagaagc	U41497
33239	cttccggaacttcagaagcatctcc	U41497
33240	cagaagcatctccaaggccatggtg	U41497
33241	ccaatcaggccctggcaaggtcatg	U41497
33242	atcaggccctggcaaggtcatgtgc	U41497
33243	caaggtcatgtgccttctctgatgc	U41497
33244	ggtcatgtgccttctctgatgccca	U41497
33245	tctctgatgcccaaacccttatgg	U41497
33246	agcagccaaacagctgagacggagg	U41497
33247	tttgagtctgtcagggattgtccac	U41497
33248	tgtccacccagagttaagtcccagt	U41497
33249	cattgaggctccaactcggatccga	U41497
33250	tccaactcggatccgagaaaacatg	U41497
33251	cagtctgcagtccagccctcagcat	U41497
33252	tctgcagtccagccctcagcatcag	U41497

SEQ ID NO:	sequence	DBAxnID
75789	agcaagtgacttctgcgaagttcct	D32132
75790	actttcttcagggcccgttgctgct	D32132
75791	ttcttcagggcccgttgctgctggg	D32132
75792	ttcagggcccgttgctgctgggcaa	D32132
75793	tgctgctgggcaagcaccctgcagg	D32132
75794	tgtgccctgggcacatttgcctttt	D32132
75795	gccctgggcacatttgcctttgtg	D32132
75796	agggtacaaccatcagccacgctgc	X84940
75797	acgctgccaccggatcagccgcaga	X84940
75798	ccgcactacaacccgatggaggtgc	X84940
75799	ggcgactttggcaacttcgtggtgc	X84940
75800	cgcaatggccagctctggaggcatc	X84940
75801	ggccagctctggaggcatcgcgtcg	X84940
75802	ctggccggaccgcactccatcttgg	X84940
75803	ggtggcaaccaggccagcctgcaga	X84940
75804	gccagcctgcagaacggcaatgcag	X84940
75805	aacggcaatgcaggtcgccggctcg	X84940
75806	ccgccgctgcacgcatagatgtctc	X84940
75807	ccgctgcacgcatagatgtctccag	X84940
75808	cagccgcagatcaccggcttggttc	X84940
75809	acgcatagatgtctccaggcgcccc	X84940
75810	ggctccaggcttgaggcctatttca	X84940
75811	aggcttgaggcctatttcagtctgg	X84940
75812	ttcccagctgagcagaacgcctcca	X84940
75813	gctgagcagaacgcctccaaccgtg	X84940
75814	gccatccacgtgcatgagttcgggg	X84940
75815	cacgtgcatgagttcggggacctga	X84940
75816	gacctgagccagggctgcgattcca	X84940
75817	actctctaaaagcagagggtgacat	X61506
75818	ttaagtctcatctcatccgtctgat	X61506
75819	aatctcactgaagacaacagccaaa	X61506
75820	agccaaaaccaagatgtcattgcca	X61506
75821	gatgtcattgccaagatggaggagc	X61506
75822	ttggcagacgcatccctactgaaga	X61506
75823	gacgcatccctactgaagaaaatgg	X61506
75824	cgccttgaatgccatcttcatatga	X61506
75825	cttgaatgccatcttcatatgaaca	X61506
75826	gaatgccatcttcatatgaacacat	X61506
75827	catcttcatatgaacacattcagat	X61506
75828	cttcatatgaacacattcagattcc	X61506
75829	agtctcatctcatccgtctgattgg	X61506
75830	acacattcagattccatctcacgga	X61506
75831	tcatccgtctgattggaaatctgtg	X61506
75832	agctggatggcattcctctgatcct	X61506
75833	atggcattcctctgatcctggacag	X61506
75834	ctctgatcctggacagcagcaacat	X61506
75835	acagcagcaacatcgatggacaaca	X61506
75836	atggacaacaacccctttatgatgc	X61506
75837	cgaaatctcactgaagacaacagcc	X61506
75838	tttttctcagttctcaggctacagag	AA079904
75839	tctcagttctcaggctacagagaga	AA079904
75840	tcatatctgcaagctcatcagagaa	AA079904
75841	tatctgcaagctcatcagagaatcc	AA079904
75842	ctgcaagctcatcagagaatccaca	AA079904
75843	ggcaagtcctttactcatggctact	AA079904
75844	aagtcctttactcatggctactctc	AA079904
75845	tcctttactcatggctactctcttc	AA079904
75846	tttactcatggctactctcttcaaa	AA079904
75847	actcatggctactctcttcaaattc	AA079904
75848	catggctactctcttcaaattcatc	AA079904
75849	ggctactctcttcaaattcatctaa	AA079904
75850	cagttctcaggctacagagagaatt	AA079904
75851	ttctcaggctacagagagaattata	AA079904
75852	aattatacaatccatactggagaaa	AA079904
75853	tatacaatccatactggagaaaaac	AA079904
75854	tcttttactacaggttcatatctgc	AA079904
75855	tttactacaggttcatatctgcaag	AA079904
75856	actacaggttcatatctgcaagctc	AA079904

SEQ ID NO	sequence	DBAxnID
118393	cctcgcttattcgcacctcatttct	M11988
118394	ctcgcttattcgcacctcatttctg	M11988
118395	catttctgcccacaggtgccgtgta	M11988
118396	cccacaggtgccgtgtatgggagtc	M11988
118397	cacaggtgccgtgtatgggagtcac	M11988
118398	acaggtgccgtgtatgggagtcacg	M11988
118399	taaactcatcaactccacgcaggcc	M11988
118400	tccacgcaggccagcggggaagact	M11988
118401	ccacgcaggccagcggggaagactc	M11988
118402	acgcaggccagcggggaagactctg	M11988
118403	cgcaggccagcggggaagactctga	M11988
118404	gactctgaggccaaagcgggcgagt	M11988
118405	tcgcttattcgcacctcatttctgc	M11988
118406	ctctgaggccaaagcgggcgagtag	M11988
118407	gcttattcgcacctcatttctgccc	M11988
118408	cttattcgcacctcatttctgccca	M11988
118409	attcgcacctcatttctgcccacag	M11988
118410	ttcgcacctcatttctgcccacagg	M11988
118411	tcgcacctcatttctgcccacaggt	M11988
118412	acctcatttctgcccacaggtgccg	M11988
118413	tcatttctgcccacaggtgccgtgt	M11988
118414	tccatgctgggagactgcacccggt	W18777
118415	accggaggatcctctccatggtcca	W18777
118416	tccctatggaggtcttcgacccagc	W18777
118417	ccagcccacagcgaagtacagcaag	W18777
118418	cagcccacagcgaagtacagcaaga	W18777
118419	gcccacagcgaagtacagcaagagg	W18777
118420	ggagtacgtcctcggatacaacatc	W18777
118421	agtacgtcctcggatacaacatcca	W18777
118422	gtacgtcctcggatacaacatccaa	W18777
118423	tacgtcctcggatacaacatccaaa	W18777
118424	gtcctcggatacaacatccaaaaga	W18777
118425	tcctcggatacaacatccaaaagat	W18777
118426	cggaggatcctctccatggtccaga	W18777
118427	aggatcctctccatggtccagaaga	W18777
118428	ggatcctctccatggtccagaagag	W18777
118429	tcctctccatggtccagaagagcag	W18777
118430	cctctccatggtccagaagagcagc	W18777
118431	tctccatggtccagaagagcagcat	W18777
118432	agaagagcagcatgtcccggggccc	W18777
118433	aagagcagcatgtcccggggccctt	W18777
118434	atcagcgtctactacaatgagtcat	W18778
118435	tcagcgtctactacaatgagtcatc	W18778
118436	atgagtcatcctctaagaagtacgt	W18778
118437	gagtcatcctctaagaagtacgtac	W18778
118438	tcatcctctaagaagtacgtaccca	W18778
118439	catcctctaagaagtacgtacccag	W18778
118440	ctgccctggtggacttggagcccgg	W18778
118441	tgaggtctgggcttttggcaactct	W18778
118442	tctgggcttttggcaactcttccgg	W18778
118443	ggcttttggcaactcttccggcctg	W18778
118444	gcaactcttccggcctgacaacttc	W18778
118445	caactcttccggcctgacaacttca	W18778
118446	agcgtctactacaatgagtcatcct	W18778
118447	gcgtctactacaatgagtcatcctc	W18778
118448	tctactacaatgagtcatcctctaa	W18778
118449	tactacaatgagtcatcctctaaga	W18778
118450	actacaatgagtcatcctctaagaa	W18778
118451	tacaatgagtcatcctctaagaagt	W18778
118452	acaatgagtcatcctctaagaagta	W18778
118453	aatgagtcatcctctaagaagtacg	W18778
118454	gaacgacctgtaaccttgcttaatg	X16511
118455	cgacctgtaaccttgcttaatgact	X16511
118456	ctgccccagcaaagtccagtccaag	X16511
118457	cagcaaagtccagtccaaggcaatt	X16511
118458	caaagtccagtccaaggcaattgta	X16511
118459	agtccagtccaaggcaattgtatta	X16511
118460	tatgtttagcaccgtacgtgttcct	X16511

TABLE 1

SEQ ID NO	sequence	DBAxnID
33253	gtccagccctcagcatcaggagctc	U41497
33254	gctgacccaggagtgtcaggaacag	U43144
33255	gttgccccaggagatccgtcggtgc	U43144
33256	taactccctgcatcttcctgggacc	U43144
33257	gcatcttcctgggacctcttggtcc	U43144
33258	tcttcctgggacctcttggtcctca	U43144
33259	tcctgggacctcttggtcctcagcc	U43144
33260	tagggcttgtaccccataacattca	U43144
33261	ggcttgtaccccataacattcacct	U43144
33262	taccccataacattcacctaagata	U43144
33263	cccataacattcacctaagataggt	U43144
33264	ataacattcacctaagataggtact	U43144
33265	attcccaaggagcagctagtggaac	U43144
33266	ccccctggtggcctgtgccagcaat	U43144
33267	ctgtgccagcaatggtcatgcacct	U43144
33268	gaacacccagctttgaactggctga	U43144
33269	cacccagctttgaactggctgagca	U43144
33270	ccagctttgaactggctgagcaaga	U43144
33271	gaggcaaatgcctcacactaactct	U43144
33272	gcaaatgcctcacactaactctaac	U43144
33273	cactaactctaactccctgcatctt	U43144
33274	gtaccacgtcgtccaggaggagctt	U33005
33275	cgtcgtccaggaggagcttattgag	U33005
33276	ctgtgcaccattaacactgtccaag	U33005
33277	aacactgtccaagccttaatcaaga	U33005
33278	gtccaagccttaatcaagagagatg	U33005
33279	cctgcagatccttttgagctcagaa	U33005
33280	gatccttttgagctcagaacttggg	U33005
33281	ccttttgagctcagaacttgggatt	U33005
33282	tttgagctcagaacttgggattgga	U33005
33283	ctttccagtcctggttgttgtagct	U33005
33284	tccagtcctggttgttgtagcttta	U33005
33285	agtcctggttgttgtagctttagat	U33005
33286	gtcctcgcctctcagtgacaaccaa	U33005
33287	caacagcacgttgcgcaaacagaac	U33005
33288	acagaaccttgacctcctggagcag	U33005
33289	ccttgacctcctggagcagttgcag	U33005
33290	taggatccaaagccttgaagccacg	U33005
33291	gaaacttcttaccagcgagagtaag	U33005
33292	cccagctggagcccacaggcgattg	U33005
33293	gcgattgaccgctgccagaagagac	U33005
33294	attcagaggctcaacgagctgtcaa	M37163
33295	ctcaacgagctgtcaagacaagatt	M37163
33296	gagctacaaagccatcaggactgac	M37163
33297	ctacaaagccatcaggactgacatg	M37163
33298	gggcaattggccactgctcttgaga	M37163
33299	ttggccactgctcttgagagagaac	M37163
33300	gccactgctcttgagagagaactcg	M37163
33301	atgagtctacctacctgcacatgcc	M37163
33302	gggactcgcagctgtacagggctta	M37163
33303	agctgtacagggcttatgtaggagt	M37163
33304	tgtaatctcttggatgcagcttcag	M37163
33305	aatctcttggatgcagcttcagaaa	M37163
33306	tgaggcttcagcgtctcctccaagg	M37163
33307	agcgtctcctccaagggttccagag	M37163
33308	gtctcctccaagggttccagagtga	M37163
33309	ggtggtacaccacagtctagactcc	M37163
33310	ccacagtctagactcccatgtgaag	M37163
33311	tctagactcccatgtgaagggaaga	M37163
33312	aagatgctatctgcccacctgtctc	M37163
33313	cccagcctggagctacaaagccatc	M37163
33314	ggagtcagaactgcttcgagggagt	U43298
33315	agaactgcttcgagggagtcaggct	U43298
33316	aatgtctccaccattgatagcatag	U43298
33317	atagactggtcaccctggacgtgct	U43298
33318	tggtcaccctggacgtgcttcaagg	U43298
33319	ttcaaggtactgttcccactgagcc	U43298
33320	ttcccactgagcctgtgcttgcatg	U43298

SEQ ID NO:	sequence	DBAxnID
75857	ggttcatatctgcaagctcatcaga	AA079904
75858	cagcactgtggctcacgggtgccat	X60671
75859	tgtggctcacgggtgccatactttt	X60671
75860	tccgatacaaaattctcatgcttat	X60671
75861	tgcttatctgttagcatacattgtt	X60671
75862	tctaatgatctgctatagaggatag	X60671
75863	agaattcaacaccaagaaccatgta	X60671
75864	caacaccaagaaccatgtaaccgag	X60671
75865	aaccgagacacttgatctgacacag	X60671
75866	gacacttgatctgacacaggggcag	X60671
75867	tgatctgacacaggggcagtcggga	X60671
75868	atgactgcagtaatcaccactgtac	X60671
75869	aatgcacacttccgatttcctgtca	X60671
75870	tcacgggtgccatactttctctag	X60671
75871	tacttttctctagttttacaatgag	X60671
75872	tccatctctgtgtattgaggggtaa	X60671
75873	agagtctccaggggtccttcagagt	X60671
75874	tccaggggtccttcagagtgtacgg	X60671
75875	ggtccttcagagtgtacgggtacag	X60671
75876	ggtacaggactctccgatacaaaat	X60671
75877	ggactctccgatacaaaattctcat	X60671
75878	atagtctggtctacacactctgagt	AA080068
75879	gtctggtctacacactctgagttct	AA080068
75880	gatgttcgaaactcacacaagtacc	AA080068
75881	atgttcgaaactcacacaagtaccg	AA080068
75882	ttcgaaactcacacaagtaccgcat	AA080068
75883	tgtaatcttagccgatgtagctcag	AA080068
75884	gtaatcttagccgatgtagctcagc	AA080068
75885	taatcttagccgatgtagctcagct	AA080068
75886	atcttagccgatgtagctcagctag	AA080068
75887	cttagccgatgtagctcagctagac	AA080068
75888	tagccgatgtagctcagctagacca	AA080068
75889	agccgatgtagctcagctagaccaa	AA080068
75890	tctggtctacacactctgagttctc	AA080068
75891	ctggtctacacactctgagttctct	AA080068
75892	tctacacactctgagttctctcagc	AA080068
75893	tgagttctctcagcgatctggcagt	AA080068
75894	gagttctctcagcgatctggcagta	AA080068
75895	tctcagcgatctggcagtaacctca	AA080068
75896	ctcagcgatctggcagtaacctcat	AA080068
75897	agatgttcgaaactcacacaagtac	AA080068
75898	tgcccaccgtgttcgagaactatgt	X99963
75899	ccaccgtgttcgagaactatgtggc	X99963
75900	ctctcgagaacatccccgagaagtg	X99963
75901	tcgagaacatccccgagaagtgggt	X99963
75902	gctacggatcccagaatggctgcat	X99963
75903	acggatcccagaatggctgcatcaa	X99963
75904	gatcccagaatggctgcatcaactg	X99963
75905	atggctgcatcaactgctgcaaggt	X99963
75906	gctgcatcaactgctgcaaggtgct	X99963
75907	gcatcaactgctgcaaggtgctatg	X99963
75908	tcaactgctgcaaggtgctatgagg	X99963
75909	actgctgcaaggtgctatgagggac	X99963
75910	actatgtggcggacatcgaggtgga	X99963
75911	tccttatgtgcttctcggtggacag	X99963
75912	ttatgtgcttctcggtggacagccc	X99963
75913	tgtgcttctcggtggacagcccgga	X99963
75914	gcttctcggtggacagcccggactc	X99963
75915	tctcggtggacagcccggactctct	X99963
75916	tggacagcccggactctctcgagaa	X99963
75917	actctctcgagaacatccccgagaa	X99963
75918	tcttcatctaataagccttggttca	AA080097
75919	tcatctaataagccttggttcaagg	AA080097
75920	tgtctctgtagtaagctcttgacac	AA080097
75921	taagctcttgacacaatccatctct	AA080097
75922	aagctcttgacacaatccatctctt	AA080097
75923	ctcttgacacaatccatctcttttg	AA080097
75924	ttgacacaatccatctcttttgtcg	AA080097

SEQ ID NO	sequence	DBAxnID
118461	tagcaccgtacgtgttcctatctca	X16511
118462	tatcctcctgtataaatccgacctc	X16511
118463	cctgtataaatccgacctctggatc	X16511
118464	taaatccgacctctggatccgttct	X16511
118465	cgacctctggatccgttctcgaata	X16511
118466	cctgtaaccttgcttaatgactcct	X16511
118467	accttgcttaatgactcctcaatga	X16511
118468	ttgcttaatgactcctcaatgaacc	X16511
118469	cttaatgactcctcaatgaaccgtt	X16511
118470	tcctcaatgaaccgttgttcttcct	X16511
118471	tcaatgaaccgttgttcttcctaga	X16511
118472	tgttcttcctagatgttggaagccc	X16511
118473	cctccgggccagagagctggctcca	X16511
118474	ctgcagtgacctcgccaaaggcgcc	U15972
118475	cagtgacctcgccaaaggcgcctgc	U15972
118476	gatgcgcagttcaggacccgacagg	U15972
118477	gcgcagttcaggacccgacaggaag	U15972
118478	cagttcaggacccgacaggaagcgg	U15972
118479	tgcagccccggaagacgcggtgccc	U15972
118480	cgtttccacagctgctgacaaggcg	U15972
118481	ttccacagctgctgacaaggcggac	U15972
118482	cacagctgctgacaaggcggacgag	U15972
118483	gcacaggaccctggctgcacaggac	U15972
118484	gaccctggctgcacaggacagttgg	U15972
118485	cctggctgcacaggacagttggaaa	U15972
118486	tgacctcgccaaaggcgcctgcgac	U15972
118487	cctcgccaaaggcgcctgcgacaag	U15972
118488	cgccaaaggcgcctgcgacaaggcg	U15972
118489	caaaggcgcctgcgacaaggcggac	U15972
118490	ggccgaagccagtttccgcatctac	U15972
118491	agccagtttccgcatctacccctgg	U15972
118492	cagtttccgcatctacccctggatg	U15972
118493	cccctggatgcgcagttcaggaccc	U15972
118494	cctctttagtgccaatgttgtgtgt	M28021
118495	ttaatgtgcatgtacgtggaagtgt	M28021
118496	caacgtgtagtggctagtggctctg	M28021
118497	gctagtggctctgtgacgaaaactg	M28021
118498	ggacccttgcacgaactctggaag	M28021
118499	tttgcacgaactctggaagtggctc	M28021
118500	actctggaagtggctcttataagcg	M28021
118501	gctcttataagcgcagttcagtgat	M28021
118502	cttataagcgcagttcagtgatgta	M28021
118503	tattgtccaagtctggctgtttaag	M28021
118504	tctattgtaagttctcttggtctga	M28021
118505	gtaagttctcttggtctgatttatg	M28021
118506	gaagtgttcctgtctcaatagctcc	M28021
118507	gtgttcctgtctcaatagctccaag	M28021
118508	tctcaatagctccaagctgttaaag	M28021
118509	caatagctccaagctgttaaagata	M28021
118510	tagctccaagctgttaaagatattt	M28021
118511	acctatattccttgtgtaattaatg	M28021
118512	attaatgctgttgtagaggtgactt	M28021
118513	cttgttcaacgtgtagtggctagtg	M28021
118514	agctctcatccgccatggagctggc	W46050
118515	ccaactttcaatcagacttggattt	W46050
118516	tctccatcgatgtgcgagattgtga	W46050
118517	ccatcgatgtgcgagattgtgaagg	W46050
118518	agacctcagtagtgttcaacaagct	W46050
118519	tgggggctaccataccttttgtctgt	W46050
118520	gggctaccataccttttgtctgtgga	W46050
118521	taccttttgtctgtggatgagggacc	W46050
118522	ctttgtctgtggatgagggacctga	W46050
118523	ttgacaggcgctgctctcgatgtgg	W46050
118524	acaggcgctgctctcgatgtggtca	W46050
118525	ggcgctgctctcgatgtggtcacga	W46050
118526	cagacttggatttctgcccagattg	W46050
118527	gctctcgatgtggtcacgagggaat	W46050
118528	tctgcccagattgtggctcagtcct	W46050

TABLE 1

SEQ ID NO	sequence	DBAxnID
33321	ccactgagcctgtgcttgcatgact	U43298
33322	tgcttgcatgactacattgaggaga	U43298
33323	gtcacaactgaaaaccctccagctg	U43298
33324	cctccagctggaatggacaatgtgc	U43298
33325	atctttgaataggagcctggaagct	U43298
33326	tatcatgctgcgctctgcagacctg	U43298
33327	gcagatccgcagttacatcaatggg	U43298
33328	ttacatcaatgggcgagtgctctac	U43298
33329	catcaatgggcgagtgctctactat	U43298
33330	agtgctctactatgccacctgcaag	U43298
33331	tgccacctgcaagtgaccttaagtc	U43298
33332	cacctgcaagtgaccttaagtccca	U43298
33333	gggaatgtctccaccattgatagca	U43298
33334	gggtgtcatgtgtcggcttgtccgc	W99212
33335	ggtgtcatgtgtcggcttgtccgcg	W99212
33336	cattatctaatgcgttgtggcttca	W99212
33337	attatctaatgcgttgtggcttcag	W99212
33338	ttatctaatgcgttgtggcttcagc	W99212
33339	tatctaatgcgttgtggcttcagcg	W99212
33340	atctaatgcgttgtggcttcagcgc	W99212
33341	tctaatgcgttgtggcttcagcgcc	W99212
33342	ctaatgcgttgtggcttcagcgccg	W99212
33343	taatgcgttgtggcttcagcgccga	W99212
33344	aatgcgttgtggcttcagcgccgag	W99212
33345	atgcgttgtggcttcagcgccgagg	W99212
33346	gtgtcatgtgtcggcttgtccgcgg	W99212
33347	tgtcatgtgtcggcttgtccgcgga	W99212
33348	cggcttgtccgcggacagcagcaag	W99212
33349	cttgtccgcggacagcagcaagcct	W99212
33350	ttgtccgcggacagcagcaagccta	W99212
33351	tgtccgcggacagcagcaagcctat	W99212
33352	gatgctgtgtgatctccatgaaggc	W99212
33353	acattatctaatgcgttgtggcttc	W99212
33354	tccacccataataagagaatgttcc	U43327
33355	atgttcctactcacacttcagctgg	U43327
33356	gttgtacacatttctctatgttcca	U43327
33357	cacatttctctatgttccagccgtc	U43327
33358	tctctatgttccagccgtctctcca	U43327
33359	tccacacagactgtgcacagactgg	U43327
33360	cagactgtgcacagactggtgcatc	U43327
33361	aataccagtgggaattgctgaagga	U43327
33362	tgggacctcagtttggaagactact	U43327
33363	gactactgtactgtctcacctctgt	U43327
33364	tgtactgtctcacctctgtacttcc	U43327
33365	gtctcacctctgtacttccttgtct	U43327
33366	acacttcagctgggtcacatccatc	U43327
33367	gacagtctctactctcatggagttg	U43327
33368	atggaaactcccatgccttgttcat	U43327
33369	actcccatgccttgttcatctcatg	U43327
33370	atgccttgttcatctcatgtgatat	U43327
33371	cattcccatgagggtacttgagtta	U43327
33372	aagttgagatcgctctgagttgtac	U43327
33373	agatcgctctgagttgtacacattt	U43327
33374	agataactccatggtccatgagctg	W99870
33375	taactccatggtccatgagctgaac	W99870
33376	actagcagacttccttggggccatt	W99870
33377	agcagacttccttggggccattggc	W99870
33378	agacttccttggggccattggctct	W99870
33379	cttccttggggccattggctctggt	W99870
33380	tggggccattggctctggtactgga	W99870
33381	ggccattggctctggtactggaatt	W99870
33382	cattggctctggtactggaattctg	W99870
33383	tactggaattctgcttgcagtcact	W99870
33384	tggaattctgcttgcagtcactatt	W99870
33385	aattctgcttgcagtcactattatt	W99870
33386	ctccatggtccatgagctgaacagg	W99870
33387	gctgaacaggtacatccccacagca	W99870
33388	tctgtgcatcggtgccctgtcagta	W99870
75925	gacacaatccatctcttttgtcgtc	AA080097
75926	acacaatccatctcttttgtcgtcc	AA080097
75927	acaatccatctcttttgtcgtcctt	AA080097
75928	atccatctcttttgtcgtccttctg	AA080097
75929	tccatctcttttgtcgtccttctga	AA080097
75930	catctaataagccttggttcaaggg	AA080097
75931	ccatctctttttgtcgtccttctgat	AA080097
75932	gaaattctagcgtcgtgtctctgta	AA080097
75933	aattctagcgtcgtgtctctgtagt	AA080097
75934	attctagcgtcgtgtctctgtagta	AA080097
75935	tctagcgtcgtgtctctgtagtaag	AA080097
75936	ctagcgtcgtgtctctgtagtaagc	AA080097
75937	agcgtcgtgtctctgtagtaagctc	AA080097
75938	tcgtgtctctgtagtaagctcttga	AA080097
75939	ggcagcaacacgatacggtgcctgg	AA080106
75940	cagcaacacgatacggtgcctggct	AA080106
75941	tgacagcccactgaagagagaggag	AA080106
75942	aggagatcccctggaagactctgat	AA080106
75943	gagatcccctggaagactctgataa	AA080106
75944	gatcccctggaagactctgataact	AA080106
75945	atcaaagtcgagacaacctgacttt	AA080106
75946	cgagacaacctgactttcgtcggct	AA080106
75947	actttcgtcggcttttggagcatgc	AA080106
75948	tttcgtcggcttttggagcatgcga	AA080106
75949	tcgtcggcttttggagcatgcgaga	AA080106
75950	cggcttttggagcatgcgagatcca	AA080106
75951	atacggtgcctggctgtggctactc	AA080106
75952	tgcctggctgtggctactcatgaca	AA080106
75953	cctggctgtggctactcatgacagc	AA080106
75954	tgtggctactcatgacagcccactg	AA080106
75955	tggctactcatgacagcccactgaa	AA080106
75956	gctactcatgacagcccactgaaga	AA080106
75957	tactcatgacagcccactgaagaga	AA080106
75958	catgacagcccactgaagagagagg	AA080106
75959	ttctaagagcgtgacctcctaagtc	U49391
75960	gagcgtgacctcctaagtctcacaa	U49391
75961	tcccaaggcatgcaaggtctgtgag	U49391
75962	tttgagtgttggtgctcagggtcat	U49391
75963	tgttggtgctcagggtcatacttcc	U49391
75964	gggtcatacttccttgtcagacaat	U49391
75965	agacaatgtcactctgagaaggagg	U49391
75966	gccagctttggccatcacaccttat	U49391
75967	tttggccatcacaccttatgcacac	U49391
75968	catcacaccttatgcacacaagttc	U49391
75969	tgcacacaagttctgaagagtttgt	U49391
75970	ctactgctgcatgagatactgtgaa	U49391
75971	ctaagtctcacaaggaatcagagaa	U49391
75972	ttcagctacttgtggttattgctca	U49391
75973	actagacagtgttctctgaagaaca	U49391
75974	actgtgcaccacaatgcctgcctga	U49391
75975	tttagcttctttatatcgagtcact	U49391
75976	ttctttatatcgagtcactccctac	U49391
75977	atatcgagtcactccctactgcatt	U49391
75978	agcctgtttccatgcacttgtacac	U49391
75979	tttccatgcacttgtacacatttaa	U49391
75980	caaactgaaagcctgacgtgacgtg	AA079913
75981	actgaaagcctgacgtgacgtgagt	AA079913
75982	tatggacatcctcctgttggaaatc	AA079913
75983	ggacatcctcctgttggaaatccga	AA079913
75984	acatcctcctgttggaaatccgaga	AA079913
75985	catcctcctgttggaaatccgagac	AA079913
75986	tcctcctgttggaaatccgagacca	AA079913
75987	cctcctgttggaaatccgagaccag	AA079913
75988	tggaaatccgagaccagcaaattac	AA079913
75989	ggaaatccgagaccagcaaattact	AA079913
75990	aaatccgagaccagcaaattactat	AA079913
75991	aatccgagaccagcaaattactatg	AA079913
75992	ctgaaagcctgacgtgacgtgagta	AA079913
118529	tgccgctgcctggaattcaggacac	W46050
118530	gaattcaggacactgtcatatgttc	W46050
118531	ttcaggacactgtcatatgttcgcg	W46050
118532	tcatatgttcgcgttgtggcttctc	W46050
118533	tatgttcgcgttgtggcttctccat	W46050
118534	gtggcttctccatcgatgtgcgaga	W46050
118535	cagtgatgtcactactgccaaagac	W21013
118536	agtgatgtcactactgccaaagact	W21013
118537	cctctgaccccggtgacatcataac	W21013
118538	tctgaccccggtgacatcataacct	W21013
118539	ctgaccccggtgacatcataacctc	W21013
118540	gaccccggtgacatcataacctcca	W21013
118541	ccggtgacatcataacctccactca	W21013
118542	ggtgacatcataacctccactcaca	W21013
118543	gtgacatcataacctccactcacaa	W21013
118544	gacatcataacctccactcacaagg	W21013
118545	taacctccactcacaaggaggcatc	W21013
118546	acctccactcacaaggaggcatcat	W21013
118547	tgatgtcactactgccaaagactcc	W21013
118548	cctccactcacaaggaggcatcatg	W21013
118549	gatgtcactactgccaaagactccg	W21013
118550	tgtcactactgccaaagactccgcc	W21013
118551	cacaactgacctctgaccccggtga	W21013
118552	caactgacctctgaccccggtgaca	W21013
118553	aactgacctctgaccccggtgacat	W21013
118554	ctgacctctgaccccggtgacatca	W21013
118555	acctctgaccccggtgacatcataa	W21013
118556	tgtattttgagtttctgctggaaac	M26283
118557	agtttctgctggaaacttccataag	M26283
118558	aggcccaatgctgtaaatatgggga	M26283
118559	atagtctgggtcaggccaatcactt	M26283
118560	catttcgcttccaagaccatttgta	M26283
118561	ttcgcttccaagaccatttgtagtg	M26283
118562	tccaagaccatttgtagtgagcggg	M26283
118563	gatgctgtgctacgtgtgaaatctg	M26283
118564	gtgaaatctgtctttgccaggcctg	M26283
118565	cctgtctcagtgattagcttttggt	M26283
118566	attagcttttggtatgtctgtagct	M26283
118567	agctttccttgaagttgaataaatg	M26283
118568	ttctgctggaaacttccataagggg	M26283
118569	cttccataaggggcagcagttgagg	M26283
118570	actccctaggctcaggtagcttgtt	M26283
118571	ccctaggctcaggtagcttgttcct	M26283
118572	tgaactcctgctgcctggtaggccc	M26283
118573	gctgcctggtaggccccacaaggcc	M26283
118574	ccacaaggcctagtctggaagcgta	M26283
118575	ataatcctcagtgtaaaatgtcttg	M26283
118576	cacgacggcagggcccagtgcttgc	X56461
118577	ctgcagagctcttcctgggcgcttg	X56461
118578	catgtccttgtcgagtctcatttcg	X56461
118579	ccccgtgcacggttcaatggtagat	X56461
118580	agattcgctgtcccctcagcaggga	X56461
118581	ctccccaaagccactggaaggagca	X56461
118582	aggagcacatactacctagaaggaa	X56461
118583	acatactacctagaaggaagaagag	X56461
118584	tgtagtcttgtcttagctccggacg	X56461
118585	agtcttgtcttagctccggacgtga	X56461
118586	cttgtcttagctccggacgtgaaat	X56461
118587	ttagctccggacgtgaaatacttcg	X56461
118588	cctcatcaggctctctggtgagaac	X56461
118589	caggctctctggtgagaactgagaa	X56461
118590	gctctctggtgagaactgagaatcg	X56461
118591	ctgagaatcggactcacttgatgtc	X56461
118592	atcggactcacttgatgtctcctgg	X56461
118593	ctcacttgatgtctcctggaagcag	X56461
118594	tgatgtctcctggaagcagagcaga	X56461
118595	tgtctcctggaagcagagcagaatg	X56461
118596	tttttgtacagtatcggaaggacat	X06762

TABLE 1

SEQ ID NO	sequence	DBAxnID
33389	gtgcatcggtgccctgtcagtacta	W99870
33390	catcggtgccctgtcagtactagca	W99870
33391	cggtgccctgtcagtactagcagac	W99870
33392	tgccctgtcagtactagcagacttc	W99870
33393	cctgtcagtactagcagacttcctt	W99870
33394	gctctccaggcccagctgtagcggg	W99875
33395	ctctccaggcccagctgtagcgggg	W99875
33396	tgtaccttgaatgccctctggatgc	W99875
33397	taccttgaatgccctctggatgccc	W99875
33398	accttgaatgccctctggatgccct	W99875
33399	ccttgaatgccctctggatgccctc	W99875
33400	ttgaatgccctctggatgccctctt	W99875
33401	tgaatgccctctggatgccctcttc	W99875
33402	gaatgccctctggatgccctcttct	W99875
33403	aatgccctctggatgccctcttctt	W99875
33404	atgccctctggatgccctcttcttg	W99875
33405	ccatcctttccattaagccagcaga	W99875
33406	tctccaggcccagctgtagcggggc	W99875
33407	catcctttccattaagccagcagag	W99875
33408	tccaggcccagctgtagcggggcat	W99875
33409	ggcatcgccctgtgctgtgtaagga	W99875
33410	catcgccctgtgctgtgtaaggatg	W99875
33411	gatgcttcttcaagaagtgtgagat	W99875
33412	ccttgctcttgattcaacaacacca	W99875
33413	ttgctcttgattcaacaacaccatt	W99875
33414	ctgtaccttgaatgccctctggatg	W99875
33415	ccagcagctgccaacctaggcgctg	AA036067
33416	cagcagctgccaacctaggcgctgg	AA036067
33417	agcaaatacgcctgcaggcgagatc	AA036067
33418	gcaaatacgcctgcaggcgagatct	AA036067
33419	aatacgcctgcaggcgagatcttcc	AA036067
33420	atacgcctgcaggcgagatcttcca	AA036067
33421	acgcctgcaggcgagatcttccagg	AA036067
33422	cgcctgcaggcgagatcttccaggc	AA036067
33423	cctgcaggcgagatcttccaggccc	AA036067
33424	agcagctgccaacctaggcgctggg	AA036067
33425	gcagctgccaacctaggcgctgggg	AA036067
33426	cgagcctctgcgcgatcgcgtcagg	AA036067
33427	gcctctgcgcgatcgcgtcaggctt	AA036067
33428	cctctgcgcgatcgcgtcaggcttt	AA036067
33429	tcgcgtcaggcttttggtgaccgca	AA036067
33430	cgcgtcaggcttttggtgaccgcat	AA036067
33431	gttaccatgggcaggaggtgcgctc	AA036067
33432	agtttgcagacgccatccaggaggt	U19859
33433	cagacgccatccaggaggtgcagca	U19859
33434	cccacaatgacctgctgcgtacata	U19859
33435	atgacctgctgcgtacatatgaggc	U19859
33436	acatagccatcttctcagccttcaa	U19859
33437	ccatcttctcagccttcaaccttta	U19859
33438	tctcagccttcaacctttacagcct	U19859
33439	tctgtccaagtaatacctctatgcc	U19859
33440	atacctctatgcccaacacaggcaa	U19859
33441	ctatgcccaacacaggcaagggttt	U19859
33442	tgttttctagacttacccgtcagca	U19859
33443	ctagacttacccgtcagcaatgaaa	U19859
33444	cgggcttcaagaacctgctgctgga	U19859
33445	agctgcaggccctgaacgctgctgt	U19859
33446	ccacagcattaacgcttgtgtcccg	U19859
33447	cattaacgcttgtgtcccgcaaact	U19859
33448	cgcttgtgtcccgcaaacttgagga	U19859
33449	tgtcccgcaaacttgaggatgttct	U19859
33450	cgaagaataccaccatcaaggactt	U19859
33451	gggtctgcaaggcccacaatgacct	U19859
33452	agcagattctcatggctgtaggtag	U19860
33453	ctcatctttcccacagatgactctg	U19860
33454	catccacagaaccatctctcatggt	U19860
33455	cagaaccatctctcatggttgttag	U19860
33456	catctctcatggttgttagcaagat	U19860

SEQ ID NO	sequence	DBAxnID
75993	atccgagaccagcaaattactatgt	AA079913
75994	aaagcctgacgtgacgtgagtatca	AA079913
75995	agcctgacgtgacgtgagtatcacc	AA079913
75996	gagtatcacctatggacatcctcct	AA079913
75997	agtatcacctatggacatcctcctg	AA079913
75998	atcacctatggacatcctcctgttg	AA079913
75999	cacctatggacatcctcctgttgga	AA079913
76000	ctatggacatcctcctgttggaaat	AA079913
76001	tcactttagtcgatacatcaccatc	U00454
76002	ctttagtcgatacatcaccatcagg	U00454
76003	tttaaactccactgtcacccagtga	U00454
76004	ggcggcacagcaatcccaggctgag	U00454
76005	ggcacagcaatcccaggctgagcca	U00454
76006	gcaatcccaggctgagccatgagga	U00454
76007	gacgctgcgagaatcctcagaagag	U00454
76008	cctacccacgaacagcatctactga	U00454
76009	gaacagcatctactgatggagattg	U00454
76010	ttatggacctcaggggaagacatgg	U00454
76011	actcttcctgccagcaacgacaaac	U00454
76012	cttcctgccagcaacgacaaacgaa	U00454
76013	atacatcaccatcaggaggaaaagt	U00454
76014	ccagcaacgacaaacgaagtgattc	U00454
76015	catcaccatcaggaggaaaagtgag	U00454
76016	tgagctggctgccacacttgggctc	U00454
76017	tgccacacttgggctctccgagagg	U00454
76018	cacacttgggctctccgagaggcag	U00454
76019	cttgagtcctgtgacctccttgcaa	U00454
76020	gagtcctgtgacctccttgcaaggc	U00454
76021	cttgcaaggctcagtgcctggttct	U00454
76022	ccggttcaggtctctccactcatca	W18494
76023	cggttcaggtctctccactcatcaa	W18494
76024	agcattctcaagtgaggcgtcacga	W18494
76025	gcattctcaagtgaggcgtcacgag	W18494
76026	cattctcaagtgaggcgtcacgagc	W18494
76027	attctcaagtgaggcgtcacgagct	W18494
76028	ttctcaagtgaggcgtcacgagctt	W18494
76029	tctcaagtgaggcgtcacgagcttg	W18494
76030	gcttgcttttctctagtcgttgaga	W18494
76031	gcttttctctagtcgttgagaacga	W18494
76032	ttttctctagtcgttgagaacgaat	W18494
76033	aagatgacagcattctcaagtgagg	W18494
76034	agatgacagcattctcaagtgaggc	W18494
76035	gatgacagcattctcaagtgaggcg	W18494
76036	atgacagcattctcaagtgaggcgt	W18494
76037	tgacagcattctcaagtgaggcgtc	W18494
76038	gacagcattctcaagtgaggcgtca	W18494
76039	acagcattctcaagtgaggcgtcac	W18494
76040	cagcattctcaagtgaggcgtcacg	W18494
76041	agattcctacagatctataagcatg	U14390
76042	ccaggcttcagaactcacaggacag	U14390
76043	gtatagccgtgtttgctgagtaacc	U14390
76044	cgccgttgaggctatctgaagtgta	U14390
76045	aacgaatcattggccggttatagca	U14390
76046	tcattggccggttatagcaatagtt	U14390
76047	gaacttcgacttactgttgttatag	U14390
76048	tataaatcacagcttctagctaggc	U14390
76049	tcacagcttctagctaggccaaaac	U14390
76050	gctaggccaaaacacttactctact	U14390
76051	ccaaaacacttactctactgatctt	U14390
76052	cacttactctactgatcttcaaaat	U14390
76053	ttcagaactcacaggacaggattcg	U14390
76054	acactgcgagctgtggagcacactt	U14390
76055	tggtcagaggcgctcccgagcaagc	U14390
76056	cgggcatcattctcccttagatcct	U14390
76057	tcattctcccttagatcctagtgtg	U14390
76058	ctgggcaaagctccaagcctcactg	U14390
76059	aaagctccaagcctcactgccttgc	U14390
76060	ctaattaacctcggcctactcaatg	U14390

SEQ ID NO	sequence	DBAxnID
118597	aggacattatctacctgttctgtgg	X06762
118598	gcattttggctgctgtttctaggtc	X06762
118599	tggctgctgtttctaggtcctattc	X06762
118600	ctgtttctaggtcctattcacgagc	X06762
118601	ctaggtcctattcacgagcctcttt	X06762
118602	cacgagcctctttctgtatatctga	X06762
118603	tgtgttttctgtctccctctggctg	X06762
118604	agatagcctctgctatagagactgc	X06762
118605	ctatagagactgccagctagtgaat	X06762
118606	agactgccagctagtgaatccccaa	X06762
118607	ccagctagtgaatccccaacataaa	X06762
118608	acctgttctgtggctttctggaatg	X06762
118609	tgttttgtaagccctctttgaagct	X06762
118610	gtaagccctctttgaagctgtcttt	X06762
118611	cctctttgaagctgtctttgtgaac	X06762
118612	cccatacttcccagtagcagtacta	X06762
118613	gttgtatggagccctgaggatccac	X06762
118614	cctgaggatccactagcttctgcgt	X06762
118615	ctagcttctgcgtctggtgcatttt	X06762
118616	cagggcagctctcagatcaggttca	M34857
118617	agctctcagatcaggttcattttgg	M34857
118618	ctgcatgtttccttttccttccaact	M34857
118619	tgacagtgctgtttccccattcata	M34857
118620	tgctgtttccccattcatacattcc	M34857
118621	ttccccattcatacattcctatcct	M34857
118622	attcatacattcctatcctcatttg	M34857
118623	ctatcctcatttgacagaatgtaac	M34857
118624	atgtaacttttcttgctgaccacag	M34857
118625	tcctccaactttgaaatcaactctc	M34857
118626	acccatcttgcaccagcaaagacaa	M34857
118627	cttgcaccagcaaagacaagtctcc	M34857
118628	gttgtgccctgatccaaacacacac	M34857
118629	ctagagatgccctcaatgaggcact	M34857
118630	aggcactccagtcccaaagtctcaa	M34857
118631	cccaaagtctcaacatcccaatatg	M34857
118632	acatcccaatatgtatcctatggaa	M34857
118633	tggccattcctgtccccaagctgtt	M34857
118634	tccccaagctgttgtgagctagaaa	M34857
118635	tcgtattttccctgcaggaagtgtt	M34857
118636	accagatccacttcttctttgccaa	AA003897
118637	acttcttctttgccaaactgaactg	AA003897
118638	cctctgacttggtatcagccaaccg	AA003897
118639	tggtatcagccaaccgccttttgg	AA003897
118640	tatcagccaaccgccttttggaga	AA003897
118641	tcaccttcaacgagagctatcaaga	AA003897
118642	atccagagtgaccatcaacaactgg	AA003897
118643	catcaaagatgtcatcccacagtgc	AA003897
118644	tgtcatcccacagtgcgccattaac	AA003897
118645	catcccacagtgcgccattaacgag	AA003897
118646	cccacagtgcgccattaacgagctc	AA003897
118647	gtgcgccattaacgagctcactgcc	AA003897
118648	tctttgccaaactgaactgccgact	AA003897
118649	ccaaactgaactgccgactctatcg	AA003897
118650	aactgaactgccgactctatcgaaa	AA003897
118651	tgaactgccgactctatcgaaaagc	AA003897
118652	gactctatcgaaaagccaacaagtc	AA003897
118653	tctatcgaaaagccaacaagtcctc	AA003897
118654	ccaacaagtcctctgacttggtatc	AA003897
118655	agtcctctgacttggtatcagccaa	AA003897
118656	tgccccacttaaggccaacatcatt	W62036
118657	acttaaggccaacatcattgaggcg	W62036
118658	catgaccattggctactctaggaca	W62036
118659	gaccattggctactctaggacagtt	W62036
118660	cattggctactctaggacagttgag	W62036
118661	gaagttccacgttattgttgcagag	W62036
118662	gttccacgttattgttgcagagtgc	W62036
118663	tattgttgcagagtgcgctcctttc	W62036
118664	tttctgccagggacatgaaatggcc	W62036

TABLE 1

SEQ ID NO	sequence	DBAxnID
33457	gcaagatgcctaacacactcaagca	U19860
33458	tgcctaacacactcaagcaaactaa	U19860
33459	acacactcaagcaaactaagcactg	U19860
33460	ttcctttctgaaccatctcagccat	U19860
33461	catctcaccaacctgtgctcagcat	U19860
33462	accaacctgtgctcagcatgaactg	U19860
33463	gtgacaccagcctttgatagtagga	U19860
33464	gactctgtatttgacctgtctatct	U19860
33465	gtatttgacctgtctatcttctcca	U19860
33466	cctctaaatccactcacatctttca	U19860
33467	ctcacatctttcagtctcacaatgc	U19860
33468	tctttcagtctcacaatgcacatca	U19860
33469	agtctcacaatgcacatcacggata	U19860
33470	acaatgcacatcacggatagcttac	U19860
33471	ttggaccttctggcagcccatccac	U19860
33472	tctgccacatctgggccgtggtgcc	U36579
33473	tggtgccctgcattaagagctacct	U36579
33474	tgagcatacctggctctgctccaca	U36579
33475	tacctggctctgctccacatgggct	U36579
33476	gttcctctcaattccacctcaagat	U36579
33477	ctcaattccacctcaagatgggaaa	U36579
33478	tccacctcaagatgggaaaacttgg	U36579
33479	tggaaacacgggcacccctgctccg	U36579
33480	aaggctttgcgttcacatgtactgt	U36579
33481	ttgcgttcacatgtactgtaatagc	U36579
33482	ccagtcttctagaggtgtgactcgt	U36579
33483	cagtgactgccggcattgaggaagg	U36579
33484	ttaagagctacctgatcgagatcca	U36579
33485	tgatcgagatccagtgcatcagcca	U36579
33486	agatccagtgcatcagccacatcta	U36579
33487	tcagccacatctactcactgtgtat	U36579
33488	acatctactcactgtgtatccgcac	U36579
33489	actcactgtgtatccgcaccttctg	U36579
33490	tcgctgcgttgggccaggtctgcag	U36579
33491	tctgcagcaacattaaggtggtgct	U36579
33492	tcctctatccaggttctccactctt	W99904
33493	cctctatccaggttctccactcttt	W99904
33494	tacagtccgttgctgattgtaggaa	W99904
33495	agtccgttgctgattgtaggaaggg	W99904
33496	gatgatgttgttcctggtggcactg	W99904
33497	atgttgttcctggtggcactgagga	W99904
33498	ttgttcctggtggcactgaggatta	W99904
33499	gttcctggtggcactgaggattatg	W99904
33500	ttcctggtggcactgaggattatga	W99904
33501	tcttgaagacccttaccacttgtct	W99904
33502	ttgaagacccttaccacttgtctag	W99904
33503	cttaccacttgtctagttatctctg	W99904
33504	tctatccaggttctccactctttac	W99904
33505	ctatccaggttctccactctttaca	W99904
33506	tccactctttacagtccgttgctga	W99904
33507	cactctttacagtccgttgctgatt	W99904
33508	actctttacagtccgttgctgattg	W99904
33509	tctttacagtccgttgctgattgta	W99904
33510	ctttacagtccgttgctgattgtag	W99904
33511	ttacagtccgttgctgattgtagga	W99904
33512	cacactctgatgctcaggctctagt	W99950
33513	ctgatgctcaggctctagttctctt	W99950
33514	gcatccagaagctttcgtaagaagtg	W99950
33515	tcattgagagccacactgacttcat	W99950
33516	agagccacactgacttcatattttc	W99950
33517	acactgacttcatattttcgacaat	W99950
33518	acttcatattttcgacaatcaaagc	W99950
33519	tattttcgacaatcaaagctccctt	W99950
33520	cgacaatcaaagctcccttgaagcc	W99950
33521	tcaaagctcccttgaagccatatct	W99950
33522	ctcccttgaagccatatctagttcc	W99950
33523	tgaagccatatctagttccaacatc	W99950
33524	ctcaggctctagttctcttaactgt	W99950

SEQ ID NO:	sequence	DBAxnID
76061	caacgatcctagcagttgtggggaa	U47323
76062	tcctagcagttgtggggaagatagg	U47323
76063	ggatctccagggctccattcaggga	U47323
76064	ggagagacttctcccagttggagga	U47323
76065	agatgccaaagctgtgggctgtaag	U47323
76066	caaagctgtgggctgtaaggcagtt	U47323
76067	ctcttaagaggtgctgccctgaagc	U47323
76068	atcagcatcagcactactggggctc	U47323
76069	actactggggctcagggcaactggc	U47323
76070	cagggcaactggctcccctggctat	U47323
76071	ccacagtcatgacacagggctcttg	U47323
76072	gctcttgtggagccctgggcaagga	U47323
76073	taacttctgacacctgtacctcaga	U47323
76074	ctgacacctgtacctcagatctgtt	U47323
76075	atctgttcatcctactcacagccat	U47323
76076	cagactgggccacggtcctgatctc	U47323
76077	gggccacggtcctgatctctggggt	U47323
76078	tttgttctatggaagtgtggtagac	U47323
76079	tcatcctggagctcctttggatctc	U47323
76080	tcctttggatctccagggctccatt	U47323
76081	tatctgtgctggaggccctgggaga	AA080172
76082	agttcatcaagtgcctgcactctgt	AA080172
76083	gagagatcatctcctttggaagcgg	AA080172
76084	agatcatctcctttggaagcggata	AA080172
76085	tcatctcctttggaagcggatatgg	AA080172
76086	ggaactcactatcgggaagaaatgc	AA080172
76087	actcactatcgggaagaaatgcttt	AA080172
76088	gaaatgctttgcgttgcggatcgcc	AA080172
76089	ctttgcgttgcggatcgccagccgt	AA080172
76090	ggacgatatgctgatcctgggcata	AA080172
76091	cgatatgctgatcctgggcataact	AA080172
76092	gctgatcctgggcataactaacccc	AA080172
76093	ctttggtcaacaactgggcctgcaa	AA080172
76094	tggtcaacaactgggcctgcaaccc	AA080172
76095	tcaacaactgggcctgcaaccctga	AA080172
76096	acaactgggcctgcaaccctgagct	AA080172
76097	gggcctgcaaccctgagctgaccct	AA080172
76098	cctgcaaccctgagctgaccctgat	AA080172
76099	gcaaccctgagctgaccctgatcgc	AA080172
76100	tcccggaccgcagagagatcatctc	AA080172
76101	agcacaggctgccgcagctcagtac	AA080197
76102	acaggctgccgcagctcagtacacc	AA080197
76103	gcaatttacacagctggctggaccc	AA080197
76104	atttacacagctggctggacccgac	AA080197
76105	tacacagctggctggacccgacatg	AA080197
76106	tgctactgacctgatgaatattctc	AA080197
76107	gaatattctcaacaaagtcctttct	AA080197
76108	tctcaacaaagtcctttctaagcat	AA080197
76109	caaagtcctttctaagcataaagag	AA080197
76110	cagctttgatacctgtaggagcatt	AA080197
76111	ctttgatacctgtaggagcattgtg	AA080197
76112	tgatacctgtaggagcattgtgtct	AA080197
76113	tccccaacagcagcattttaccgtc	AA080197
76114	acagcagcattttaccgtcgtggag	AA080197
76115	gcagcattttaccgtcgtggaggcc	AA080197
76116	gcattttaccgtcgtggaggcctca	AA080197
76117	taccgtcgtggaggcctcagaaagt	AA080197
76118	agtcagacgttttcggcagcaattt	AA080197
76119	acgttttcggcagcaatttacacag	AA080197
76120	ttttcggcagcaatttacacagctg	AA080197
76121	gttctccctctcagatgccaactgc	X95255
76122	agatgccaactgcctgctccaaggg	X95255
76123	gttctttgctgacctcccttgcaga	X95255
76124	gcaagttccttgcagttatgcagta	X95255
76125	tccttgcagttatgcagtaggcggt	X95255
76126	aggaggaccacaaacacaaagactg	X95255
76127	tattttagcaatctcatctcacctg	X95255
76128	agcaatctcatctcacctgattggg	X95255

SEQ ID NO	sequence	DBAxnID
118665	tgaaatggccgtcaatttgtccaaa	W62036
118666	cgagacaactgtcatgactgatgcc	W62036
118667	gacaactgtcatgactgatgccgcc	W62036
118668	taaggccaacatcattgaggcgatt	W62036
118669	aactgtcatgactgatgccgccatt	W62036
118670	ggccaacatcattgaggcgattaat	W62036
118671	ggagcacatccactccaacgaggtg	W62036
118672	gcacatccactccaacgaggtgatc	W62036
118673	catccactccaacgaggtgatcatg	W62036
118674	ccactccaacgaggtgatcatgacc	W62036
118675	ctccaacgaggtgatcatgaccatt	W62036
118676	gatcatgaccattggctactctagg	W62036
118677	atgtccagtacagccaggtgaccgg	W20652
118678	ggctgaacgaaccactgtccaatga	W20652
118679	ccgagcctaccgggagaagatcgag	W20652
118680	aaggacgtgctgagcctgctggaca	W20652
118681	acgtgctgagcctgctggacaacta	W20652
118682	gtgctgagcctgctggacaactacc	W20652
118683	gctgagcctgctggacaactacctg	W20652
118684	cctgctggacaactacctgatcaaa	W20652
118685	tgctggacaactacctgatcaaaga	W20652
118686	ctggacaactacctgatcaaagaac	W20652
118687	ggacaactacctgatcaaagaactg	W20652
118688	acaactacctgatcaaagaactgca	W20652
118689	ctgaacgaaccactgtccaatgagg	W20652
118690	aactacctgatcaaagaactgcagc	W20652
118691	gaacgaaccactgtccaatgaggaa	W20652
118692	gggtcatcagcagcatcgagcagaa	W20652
118693	gtcatcagcagcatcgagcagaaga	W20652
118694	catcagcagcatcgagcagaagacg	W20652
118695	tcagcagcatcgagcagaagacgtc	W20652
118696	tggtccgagcctaccgggagaagat	W20652
118697	gtccgagcctaccgggagaagatcg	W20652
118698	ccagcaggtcctggagttggagaag	M36654
118699	ccacaagttgcccaacaccaagatc	M36654
118700	cccccaagcaggagttcgaacatgg	M36654
118701	cctaccctcactttatctatatgga	M36654
118702	taccctcactttatctatatggaat	M36654
118703	accctcactttatctatatggaata	M36654
118704	ccctcactttatctatatggaataa	M36654
118705	ctcactttatctatatggaataaac	M36654
118706	taaagtcttcggagacaagattcga	M36654
118707	caagattcgagtctcttgctttctt	M36654
118708	aagattcgagtctcttgctttcttc	M36654
118709	agattcgagtctcttgctttcttcc	M36654
118710	cacaagttgcccaacaccaagatcc	M36654
118711	caagttgcccaacaccaagatccgc	M36654
118712	aagttgcccaacaccaagatccgct	M36654
118713	agttgcccaacaccaagatccgctc	M36654
118714	ttgcccaacaccaagatccgctcgg	M36654
118715	gcccaacaccaagatccgctcgggt	M36654
118716	caacaccaagatccgctcgggtggc	M36654
118717	aacaccaagatccgctcgggtggca	M36654
118718	gtccccatctcggaggctgcagact	AA050551
118719	cccatctcggaggctgcagactaag	AA050551
118720	gaaggccaccaatgtgccttttgtg	AA050551
118721	caatgtgccttttgtgctcattggc	AA050551
118722	cacaggcactgtcattattctcttg	AA050551
118723	aggcactgtcattattctcttgggc	AA050551
118724	cattattctcttgggcacctttggt	AA050551
118725	tattctcttgggcacctttggttgt	AA050551
118726	tggttgtttcgctacctgtcgagcc	AA050551
118727	ttgtttcgctacctgtcgagcctcc	AA050551
118728	ctccgcctggatgctgaaactgtac	AA050551
118729	cgcctggatgctgaaactgtacgcg	AA050551
118730	gctgcagactaagccggtcattact	AA050551
118731	cttgatctacactttcatcttttgg	AA050551
118732	gatctacactttcatcttttggatc	AA050551

TABLE 1

SEQ ID NO	sequence	DBAxnID
33525	tagttccaacatcagataatatcct	W99950
33526	ctctagttctcttaactgtcacacc	W99950
33527	ttctcttaactgtcacacctgacca	W99950
33528	taactgtcacacctgaccagtcaat	W99950
33529	ctgaccagtcaatggtggatgaggg	W99950
33530	atgagggcatggctcgggaagtcat	W99950
33531	aagtcatcaatcgcatccagaagct	W99950
33532	tcaatcgcatccagaagcttcgtaa	W99950
33533	aagtgcatctgcatacgaccaccac	AA000004
33534	atctgcatacgaccaccacacctga	AA000004
33535	ggctgcgcatatatctcatctgcag	AA000004
33536	tatatctcatctgcaggagacgacg	AA000004
33537	gactagtcgagaccttctgtactct	AA000004
33538	agaccttctgtactcttgatgctgc	AA000004
33539	ccttctgtactcttgatgctgcgac	AA000004
33540	gtactcttgatgctgcgactctagc	AA000004
33541	ttgatgctgcgactctagcatggct	AA000004
33542	ctgcgactctagcatggctgactga	AA000004
33543	agcatgcgcaacatgtgtcacacgc	AA000004
33544	atgcgcaacatgtgtcacacgctca	AA000004
33545	cgaccaccacacctgagtgcagaag	AA000004
33546	cgcaacatgtgtcacacgctcatcc	AA000004
33547	ccaccacacctgagtgcagaagcta	AA000004
33548	gagtcgctgactatcaccttggata	AA000004
33549	actatcaccttggatacggtgtcga	AA000004
33550	ctgtaaacctgactatgaggatctg	AA000004
33551	ctatgaggatctgctaggaggtcat	AA000004
33552	cctcagatgacattgggctgcgcat	AA000004
33553	acattgggctgcgcatatatctcat	AA000004
33554	tcccaagtactgcctgaacccggag	L49022
33555	cctgaacccggagtacccagagctg	L49022
33556	cagatgcatgcctggaaacgcagtg	L49022
33557	catgcctggaaacgcagtggacaca	L49022
33558	agtggacacacgcattttggttttg	L49022
33559	acgcattttggttttgcagtgactg	L49022
33560	tgtaactcgaacacattcttttcta	L49022
33561	aacacattctttttctatttcactgg	L49022
33562	acattctttttctatttcactggagc	L49022
33563	ttcttttctatttcactggagcaca	L49022
33564	tctatttcactggagcacaataaat	L49022
33565	atttcactggagcacaataaatggc	L49022
33566	gtacccagagctgagtgagcccacc	L49022
33567	caactactacaactctgcctagggg	L49022
33568	ctggcacctgcctatagggttacgg	L49022
33569	catccctggagctttcgcagggccc	L49022
33570	tggagctttcgcagggcccaacata	L49022
33571	tgtccccaacagtgcccgaaggaag	L49022
33572	tccctcacaagtaagtacctcccag	L49022
33573	ttcctgcgacgggagcagatgcatg	L49022
33574	attgaagcccatggaccttatggta	W99962
33575	agcaagtccacgacgaatttttgcg	W99962
33576	aaattccatttcagtaaatagtgat	W99962
33577	tgaaacatatctctctgcagatgat	W99962
33578	aacatatctctctgcagatgatctg	W99962
33579	atatctctctgcagatgatctgagg	W99962
33580	tctctctgcagatgatctgagggtt	W99962
33581	tgacctatggcgtttagaaatcaca	W99962
33582	aggcttcaacattgtggacatcaag	W99962
33583	cttcaacattgtggacatcaagcca	W99962
33584	tgtggacatcaagccagctaatatg	W99962
33585	ggacatcaagccagctaatatggag	W99962
33586	tccacgacgaatttttgcgagtgct	W99962
33587	aatttttgcgagtgctcatacatat	W99962
33588	ttttgcgagtgctcatacatatcac	W99962
33589	tgctcatacatatcacataaattcc	W99962
33590	tcatacatatcacataaattccatt	W99962
33591	tacatatcacataaattccatttca	W99962
33592	atatcacataaattccatttcagta	W99962

SEQ ID NO:	sequence	DBAxnID
76129	ctcatctcacctgattgggatgtgt	X95255
76130	tcacctgattgggatgtgtctcaag	X95255
76131	gtgtctcaagtatattccttttatg	X95255
76132	tctcaagtatattccttttatggaa	X95255
76133	cctgctccaagggacatgcactgaa	X95255
76134	gacatgcactgaaaactctgagtta	X95255
76135	ggaccataccagcctaatgtcaggg	X95255
76136	taccagcctaatgtcaggggcttg	X95255
76137	ggccttgagcccaagtattattcag	X95255
76138	tattcagaacctttcccacagctcc	X95255
76139	ccatgggcaccaccaacatggctat	X95255
76140	ccaacatggctatcggggatatgag	X95255
76141	aacctgccgagtcaaagcagcacat	AA080208
76142	agtcaaagcagcacattttgacgtc	AA080208
76143	tgataaactccagggattccctgct	AA080208
76144	taaactccagggattccctgctcct	AA080208
76145	ccagggattccctgctcctggaagg	AA080208
76146	gggattccctgctcctggaaggagg	AA080208
76147	tcctacctgagttgttctaccctgt	AA080208
76148	ctgagttgttctaccctgttaacag	AA080208
76149	tgttctaccctgttaacagcacaga	AA080208
76150	tctaccctgttaacagcacagattc	AA080208
76151	accctgttaacagcacagattctac	AA080208
76152	ctgttaacagcacagattctaccag	AA080208
76153	caaagcagcacattttgacgtcgag	AA080208
76154	ttaacagcacagattctaccagtgg	AA080208
76155	tcgtctgttgcttggaatctatgaa	AA080208
76156	tctgttgcttggaatctatgaacat	AA080208
76157	aattaagacagacccagagctaaag	AA080208
76158	taagacagacccagagctaaagcta	AA080208
76159	gacagacccagagctaaagctaact	AA080208
76160	agacccagagctaaagctaactgat	AA080208
76161	gctaactgataaactccagggattc	AA080208
76162	ggccactacatcctgggggacacgc	AA080220
76163	cactacatcctgggggacacgcttg	AA080220
76164	cctcacatcatcaaactgtaccagg	AA080220
76165	cacatcatcaaactgtaccaggtca	AA080220
76166	atcaaactgtaccaggtcatcagta	AA080220
76167	aaactgtaccaggtcatcagtacac	AA080220
76168	ctgtaccaggtcatcagtacaccat	AA080220
76169	taccaggtcatcagtacaccatctg	AA080220
76170	gtcatcagtacaccatctgatattt	AA080220
76171	atcagtacaccatctgatattttca	AA080220
76172	agtacaccatctgatattttcatgg	AA080220
76173	tatgtctctggaggagagctatttg	AA080220
76174	atcctgggggacacgcttggtgtcg	AA080220
76175	gacacgcttggtgtcggcaccttcg	AA080220
76176	aagatactcaaccggcagaagattc	AA080220
76177	ctcaaccggcagaagattcggagcc	AA080220
76178	attcagaacctgaagctgttcaggc	AA080220
76179	aacctgaagctgttcaggcaccctc	AA080220
76180	aagctgttcaggcaccctcacatca	AA080220
76181	ctgttcaggcaccctcacatcatca	AA080220
76182	cttcatggcagcctggagcttactg	AA080234
76183	ggcagcctggagcttactgaactgc	AA080234
76184	atccccacaggccagcaagtagtag	AA080234
76185	cccacaggccagcaagtagtagaag	AA080234
76186	attgaaagtagcctcactggctggg	AA080234
76187	cacacgcagcttctccaggagcatt	AA080234
76188	acgcagcttctccaggagcattgtc	AA080234
76189	ctccaggagcattgtctggatggag	AA080234
76190	cattgtctggatggaggccgaagcc	AA080234
76191	ggccgaagccacctggccagcttgg	AA080234
76192	cacctggccagcttggtcaaagtcc	AA080234
76193	ctggccagcttggtcaaagtccagg	AA080234
76194	gagcttactgaactgctgtgcagcc	AA080234
76195	cttactgaactgctgtgcagccttc	AA080234
76196	ctgcttctcctcaggcttggacagt	AA080234

SEQ ID NO	sequence	DBAxnID
118733	ctacactttcatcttttggatcact	AA050551
118734	catcttttggatcactggtgttatc	AA050551
118735	cactggtgttatccttcttgccgtt	AA050551
118736	tggtgttatccttcttgccgttggc	AA050551
118737	tcttgccgttggcatttggggcaag	AA050551
118738	cctgagcatgccactcgtggccaag	W20990
118739	gccactcgtggccaagctcccttgt	W20990
118740	tatcttgtccctttgaggccccaca	W20990
118741	cttgtccctttgaggccccacatca	W20990
118742	cctttgaggccccacatcaagtgtc	W20990
118743	ttgaggccccacatcaagtgtcacc	W20990
118744	gcttacttggttcatgcttcttgtg	W20990
118745	ttggttcatgcttcttgtgtgacac	W20990
118746	gttcatgcttcttgtgtgacacttc	W20990
118747	catgcttcttgtgtgacacttctcg	W20990
118748	tcttgtgtgacacttctcgctgttt	W20990
118749	tgtgtgacacttctcgctgttttat	W20990
118750	actcgtggccaagctcccttgttat	W20990
118751	ggccaagctcccttgttatttgctc	W20990
118752	caagctcccttgttatttgctctgt	W20990
118753	gctcccttgttatttgctctgtagt	W20990
118754	ctgtagttcccctctgcctgggatgc	W20990
118755	tagttccctctgcctgggatgccct	W20990
118756	tctatgcctggcagttatcttgtcc	W20990
118757	atgcctggcagttatcttgtccctt	W20990
118758	cgccatcttccgtctcaaaaagaca	L20899
118759	ctgtgtcccttacctggggatgtat	L20899
118760	tcagcagactacctacaaaatcgac	L20899
118761	cctgtatgagtcttcgctcctaatc	L20899
118762	tgagtcttcgctcctaatcgaacca	L20899
118763	agctgcttctgtgaacacctgcttt	L20899
118764	ttctgtgaacacctgctttacgatt	L20899
118765	gaacacctgctttacgattattgta	L20899
118766	atataatcgtcgcgtgcctctgtac	L20899
118767	cgtgcctctgtacttgttctccagc	L20899
118768	cttgttctccagcgtgtgcttcccc	L20899
118769	ctccagcgtgtgcttccccgagaat	L20899
118770	tctcaccgacttggtgttcatcgag	L20899
118771	gacacccaattacacagaggacggc	L20899
118772	caattacacagaggacggcctggtc	L20899
118773	caacttctccaagatgagaatgatc	L20899
118774	aatgatctcccatattatccgagag	L20899
118775	tattatccgagagattcgccagttt	L20899
118776	gattcgccagtttcagcagactacc	L20899
118777	ccagtttcagcagactacctacaaa	L20899
118778	tgcctaaacgctgctatgtgagcca	X60034
118779	aacgctgctatgtgagccacttaaa	X60034
118780	ttcagcttcctgagatgatcaaagc	X60034
118781	agggtttcctctatgtagctaagct	X60034
118782	tcctctatgtagctaagctgcttca	X60034
118783	atgtagctaagctgcttcaatgatg	X60034
118784	ctaagctgcttcaatgatgatcttc	X60034
118785	gatcttcatattgtgctccagtttg	X60034
118786	ttaaagtgcgctcctacctcttcgt	X60034
118787	cacaatcactgtttagttagtagcg	X60034
118788	gaattataccttggcatcagttact	X60034
118789	taccttggcatcagttactcaaact	X60034
118790	tgagccacttaaaattctcgggtgc	X60034
118791	acttaaaattctcgggtgcagagtg	X60034
118792	aattctcgggtgcagagtggcaggc	X60034
118793	gtcagaaacgtatctctctgaagtt	X60034
118794	aacgtatctctctgaagttgtttca	X60034
118795	aatttcctggacagactacatatat	X60034
118796	agactacatatattcagcttcctga	X60034
118797	catatattcagcttcctgagatgat	X60034
118798	gaccacctgcaaaaatgacatgtgt	AA153075
118799	gggactccagcatgaccacacagat	AA153075
118800	gctctgtggagttgggcagcatgtc	AA153075

TABLE 1

SEQ ID NO:	sequence	DBAxnID
33593	cataaattccatttcagtaaatagt	W99962
33594	ttagccaagcctctgtctagtctca	U39738
33595	cctctgtctagtctcactcctctga	U39738
33596	tttgtaagcctgaactgcagcccac	U39738
33597	agcctgaactgcagcccacacaggg	U39738
33598	ccagtagtgaatcccctcattttgt	U39738
33599	gtagtgaatcccctcattttgtgca	U39738
33600	gtgaatcccctcattttgtgcattt	U39738
33601	ctcattttgtgcatttactttgaag	U39738
33602	ttctcaaagatgcacactccctctt	U39738
33603	actccctcttcatagtgctgtgttt	U39738
33604	ccctcttcatagtgctgtgtttgtt	U39738
33605	cacttgcattgtcattagatgttca	U39738
33606	tctagtctcactcctctgattatcg	U39738
33607	ctcactcctctgattatcgccgcaa	U39738
33608	actcctctgattatcgccgcaaagg	U39738
33609	attatcgccgcaaaggaagcaatta	U39738
33610	aacagtagccgttagaactgcaagc	U39738
33611	cggtctccaggatgagtaagactga	U39738
33612	tctgctgctgcaggatccacagaag	U39738
33613	tactccctcagattatgtaatttat	U39738
33614	ctccactctataaggaactcttcag	U39071
33615	ataaggaactcttcagcactgatgt	U39071
33616	tgatttcccataagttccaccctgg	U39071
33617	tccaccctggcttctggaagctgtg	U39071
33618	agactgacaatcagcagggataaat	U39071
33619	gaactcaaatctaggcttgaaagct	U39071
33620	ctcaaatctaggcttgaaagctaat	U39071
33621	cagtcctttcaatacctcattgtat	U39071
33622	caatacctcattgtatttccccatg	U39071
33623	gatctagctcagagactggtggcaa	U39071
33624	gctcagagactggtggcaagccccc	U39071
33625	agactggtggcaagcccccagaagg	U39071
33626	tcttcagcactgatgttgaatcccc	U39071
33627	aatcccctgaggggctgtcaaagtg	U39071
33628	tctgcactctatgaagggtggtatc	U39071
33629	taagcaaatcctaagactgattttc	U39071
33630	aagactgattttctgcccctaggct	U39071
33631	actgattttctgcccctaggcttgc	U39071
33632	ctgcccctaggcttgccttgtagga	U39071
33633	ctaggcttgccttgtaggacaacag	U39071
33634	aacatgatgcactttggagggtaca	L47570
33635	atgatgcactttggagggtacatcc	L47570
33636	ctgcttgtgtccttgccccgtgcat	L47570
33637	tcccagctctgggtcctccttggca	L47570
33638	gtcctccttggcacccaatgcagac	L47570
33639	cttggcacccaatgcagactcctgt	L47570
33640	ggcacccaatgcagactcctgtttg	L47570
33641	acccaatgcagactcctgtttggat	L47570
33642	caatgcagactcctgtttggatagt	L47570
33643	tgcagactcctgtttggatagtggg	L47570
33644	ctagaagccagtactctgcctgacc	L47570
33645	tatgcccgcactatgccagcaataa	L47570
33646	tacatccagaagcaagctcagacag	L47570
33647	caagctcagacagagcggaagagtg	L47570
33648	aacgttctgcgaaaccggatcaatg	L47570
33649	gttctgcgaaaccggatcaatgaca	L47570
33650	atcaatgacaaccagaaagtctcca	L47570
33651	gtcaccgggcgttggaaatagatga	L47570
33652	atgaaactgttctcgtcaaagctgt	L47570
33653	aaactgttctcgtcaaagctgtgcc	L47570
33654	cgacccatgctccagtttgggctca	L43371
33655	atgctccagtttgggctcattgctt	L43371
33656	tcacggactactaacatcagagcct	L43371
33657	gcccgcttcaaaggcaacagctgga	L43371
33658	ttcaaaggcaacagctggaggctaa	L43371
33659	tgcgtattacttcctgctgtacaga	L43371
33660	ttacttcctgctgtacagaccattc	L43371

SEQ ID NO:	sequence	DBAxnID
76197	ctcctcaggcttggacagtggcaca	AA080234
76198	ctcaggcttggacagtggcacaatt	AA080234
76199	cagtggcacaattccaaacacattg	AA080234
76200	aattccaaacacattgttctctgcc	AA080234
76201	tccaaacacattgttctctgccaag	AA080234
76202	tacctccgcgctctgggcaaacgca	U31510
76203	cgcgctctgggcaaacgcagtacat	U31510
76204	agactgaacctcatccaggatgtag	U31510
76205	gggacccactgaggacaagcagagg	U31510
76206	actcaacttggagccaggagacttc	U31510
76207	agacttcaactcattgtgcgtgaca	U31510
76208	caactcattgtgcgtgacacacaca	U31510
76209	cgtgacacacacacatgaccgtggg	U31510
76210	acacacacatgaccgtgggccaagc	U31510
76211	acatgaccgtgggccaagctggagt	U31510
76212	tcacttaattgcctctcataaaggt	U31510
76213	aattgcctctcataaaggtatgagt	U31510
76214	agtacatacaactgtgaatacatca	U31510
76215	tcagccccaggctccatttctgctt	U31510
76216	ccaggctccatttctgcttcctgct	U31510
76217	ggtctccagcaacttacccgatgtt	U31510
76218	cgatgttgaccggccctgactgaag	U31510
76219	tggtcaactgtgcgccttcagtgta	U31510
76220	cagtccatctacagggaactctggg	U31510
76221	ctctgggaccgtctatggcaattgc	U31510
76222	tatcttccatgatggaaacctgcca	
76223	tcttccatgatggaaacctgccaga	
76224	ccaacacagccggcgaggaaggtga	
76225	tcgaaagatgaacccttgtttgctg	
76226	cgaaagatgaacccttgtttgctgc	
76227	atcgttctcaacctgatctttggag	
76228	tcgttctcaacctgatctttggagt	
76229	gttctcaacctgatctttggagtga	
76230	ttctcaacctgatctttggagtgat	
76231	tctacgatgagtctggtgaagcagc	
76232	ctacgatgagtctggtgaagcagct	
76233	gatgagtctggtgaagcagctgtca	
76234	cttccatgatggaaacctgccagaa	
76235	tccatgatggaaacctgccagaagg	
76236	ccatgatggaaacctgccagaagga	
76237	atgatggaaacctgccagaaggaaa	
76238	tgatggaaacctgccagaaggaaaa	
76239	cctcttccaacacagccggcgagga	
76240	cttccaacacagccggcgaggaagg	
76241	tccaacacagccggcgaggaaggtg	
76242	tcttactacttgtatccagccacga	AA080252
76243	ttactacttgtatccagccacgaaa	AA080252
76244	caggagccccagacatgctgacacc	AA080252
76245	ggagccccagacatgctgacacctg	AA080252
76246	agccccagacatgctgacacctgtg	AA080252
76247	ccccagacatgctgacacctgtggc	AA080252
76248	ccagacatgctgacacctgtggctg	AA080252
76249	acatgctgacacctgtggctgctgc	AA080252
76250	gctgacacctgtggctgctgcagag	AA080252
76251	ctgtggctgctgcagaggaagacaa	AA080252
76252	caaggattctgaggccgaggttgaa	AA080252
76253	gattctgaggccgaggttgaagttg	AA080252
76254	tacttgtatccagccacgaaaacgg	AA080252
76255	tgtatccagccacgaaaacggaagc	AA080252
76256	tatccagccacgaaaacggaagctg	AA080252
76257	tccagccacgaaaacggaagctgac	AA080252
76258	gaagctgactctggacacagcagga	AA080252
76259	agctgactctggacacagcaggagc	AA080252
76260	ctctggacacagcaggagccccaga	AA080252
76261	ggacacagcaggagccccagacatg	AA080252
76262	cagtcctatgaataccatcgagaga	AA097860
76263	gtcctatgaataccatcgagagaac	AA097860
76264	attcagccgctcatcttcacagcac	AA097860

SEQ ID NO:	sequence	DBAxnID
118801	gcatgtcacctgccacctggacctg	AA153075
118802	ccacctggacctgagcacctgtgga	AA153075
118803	cctggacctgagcacctgtggactc	AA153075
118804	actcccggatctccttgatcttgga	AA153075
118805	cccggatctccttgatcttggagcc	AA153075
118806	ctttgccgatcagggacccacactg	AA153075
118807	cagggaccactagtcgcagtgtcac	AA153075
118808	ggaccactagtcgcagtgtcactgg	AA153075
118809	ccactagtcgcagtgtcactggagg	AA153075
118810	actccagcatgaccacacagatctg	AA153075
118811	tgaccacacagatctgtttcacaca	AA153075
118812	ccacacagatctgtttcacacactg	AA153075
118813	cacagatctgtttcacacactggaa	AA153075
118814	tcacacactggaatatggcgtctgg	AA153075
118815	atatggcgtctggggtccctgagat	AA153075
118816	agatagtcactgcccgctctgtgga	AA153075
118817	cccgctctgtggagttgggcagcat	AA153075
118818	agatagacatcctggacaccgctgg	W20693
118819	acatcctggacaccgctggccagga	W20693
118820	tggtgttctccatcacagagcacga	W20693
118821	tctccatcacagagcacgagtcttt	W20693
118822	cagagcacgagtctttcacagccac	W20693
118823	agtctttcacagccacagccgagtt	W20693
118824	ctttcacagccacagccgagttcag	W20693
118825	tcacagccacagccgagttcaggga	W20693
118826	aacagattctccgagtcaagtcaga	W20693
118827	tcccactgctggtcgtgggcaacaa	W20693
118828	gcaacaagtccgacctggaggagcg	W20693
118829	acaagtccgacctggaggagcggag	W20693
118830	acaccgctggccaggaggactatgc	W20693
118831	ccgctggccaggaggactatgcggc	W20693
118832	aggactatgcggccatccgtgacaa	W20693
118833	atgcggccatccgtgacaactactt	W20693
118834	cggccatccgtgacaactacttccg	W20693
118835	gtgacaactacttccgaagcggaga	W20693
118836	gctttctgctggtgttctccatcac	W20693
118837	ttctgctggtgttctccatcacaga	W20693
118838	ctggccggcagcaagcacaaagagg	X55318
118839	ccggcagcaagcacaaagaggagaa	X55318
118840	gcccgtgttctcaatctcactgagc	X55318
118841	cccgtgttctcaatctcactgagcg	X55318
118842	cgtgttctcaatctcactgagcggc	X55318
118843	gtgttctcaatctcactgagcggca	X55318
118844	ttctcaatctcactgagcggcaggt	X55318
118845	cagactgctgcctcggcacagccaa	X55318
118846	gttagttctatccatcgaggaggag	X55318
118847	tcttccccagcgcaactgaaataaa	X55318
118848	tccccagcgcaactgaaataaatga	X55318
118849	ccccagcgcaactgaaataaatgac	X55318
118850	gcaaccccgtggccaactggatcca	X55318
118851	gcccgttccacaaggaagaagcgct	X55318
118852	gagtttctcttcaatatgtatttaa	X55318
118853	tttctcttcaatatgtatttaacca	X55318
118854	ttctcttcaatatgtatttaaccag	X55318
118855	tacgaggtggcccgtgttctcaatc	X55318
118856	aggtggcccgtgttctcaatctcac	X55318
118857	gtggcccgtgttctcaatctcactg	X55318
118858	agcgccgttttgccattggctctca	D26090
118859	ccattggctctcaggtgtctgaaca	D26090
118860	ctgctctgggtgtctatcccctgtc	D26090
118861	tctatccccgtgtcatgccttctcaa	D26090
118862	ccctgtcatgccttctcaacaagat	D26090
118863	catgccttctcaacaagatgagtct	D26090
118864	ttctcaacaagatgagtctggagca	D26090
118865	gtatattggctcccgggccactcac	D26090
118866	cactcactgccaagcttctttgtat	D26090
118867	ctgccaagcttctttgtatgtacag	D26090
118868	caattgagtccctggctgctaaggt	D26090

TABLE 1

SEQ ID NO	sequence	DBAxnID
33661	aggactgctgctatcctatactctg	L43371
33662	atcctatactctgatgccatttatg	L43371
33663	tactctgatgccatttatgtgtgta	L43371
33664	tgtgtattacatgccttctcagaat	L43371
33665	gccttctcagaatgatgttgactta	L43371
33666	gggctcattgctttttccatatatg	L43371
33667	ctcattcagggagctgctatggcta	L43371
33668	gctgctatggctatactggttgctt	L43371
33669	gtatccgatttcttccaggcacaca	L43371
33670	gatttcttccaggcacacattctta	L43371
33671	ttccaggcacacattcttacaaaga	L43371
33672	gcacacattcttacaaagagagaaa	L43371
33673	aggatccacacgatctccatgaaac	L43371
33674	tgcccacgaggaacttctccgagct	L23769
33675	ccacgaggaacttctccgagctgac	L23769
33676	catcagtgggctgctacctggggag	L23769
33677	ctaagtggggctcctaactgtccag	L23769
33678	tcatccaaggcctcgttgtggggcc	L23769
33679	gtctcctcaggtagctgtgcccctt	L23769
33680	tcctcaggtagctgtgccccttacc	L23769
33681	tgtgcccctacccagctggtctgc	L23769
33682	tacccagctggtctgcttggatttc	L23769
33683	ctgcttggatttcctacgccccagg	L23769
33684	ccccaggcatggaccacctctgttt	L23769
33685	gcatggaccacctctgttttatacc	L23769
33686	ggaacttctccgagctgacctgtgc	L23769
33687	agctgacctgtgccgagacaagttc	L23769
33688	tgacctgtgccgagacaagttctcc	L23769
33689	ctccaagtgtggcgtgatggccgtc	L23769
33690	ccctttcatcccggacatcagtggg	L23769
33691	tttcatcccggacatcagtgggctg	L23769
33692	cccggacatcagtgggctgctacct	L23769
33693	ggacatcagtgggctgctacctggg	L23769
33694	ggattctgggcagtgtcattgtggt	L46855
33695	ttctgggcagtgtcattgtggtatg	L46855
33696	catggtcattccatggagacctctc	L46855
33697	ggtcattccatggagacctctccgt	L46855
33698	gagacctctccgtgaggaagtgaac	L46855
33699	gtcctgattcctgtccatcaaaatt	L46855
33700	ctgattcctgtccatcaaaattggg	L46855
33701	attcctgtccatcaaaattgggtgt	L46855
33702	ccgtgcccctacagtgagagacaga	L46855
33703	cagatgtcccatccatggtctctac	L46855
33704	catccatggtctctactgcattttc	L46855
33705	ccatggtctctactgcattttccct	L46855
33706	tattgggctcttacatccccaatga	L46855
33707	tgggctcttacatccccaatgactg	L46855
33708	cttacatccccaatgactgcactac	L46855
33709	cctctccagagagtagggattttct	L46855
33710	attttcttggactatgatgctggtg	L46855
33711	gaggtttccttctacaatgtgacag	L46855
33712	aagagcgcacgtcctttgatcatct	L46855
33713	ttttctggccatgttgggaatcatg	L46855
33714	tgcgcacatttctctcatgagtgaa	L49433
33715	catttctctcatgagtgaagaatgg	L49433
33716	gcttgctgtatgtccttcaggactt	L49433
33717	tgtatgtccttcaggacttcttgga	L49433
33718	ctttggattcaggtgatgtggagct	L49433
33719	tcagaaatcctgaaaccagtggctc	L49433
33720	atcctgaaaccagtggctctggtac	L49433
33721	aaaccagtggctctggtactcagta	L49433
33722	gtggctctggtactcagtagttagg	L49433
33723	ggtaccctgtgcttcttggtgcttt	L49433
33724	ggatttttctgctactggtaaatat	L49433
33725	gcgtgcatcattgtagtgtgtgcag	L49433
33726	ctactgatttcagctcttcagcagg	L49433
33727	atttcagctcttcagcaggacattc	L49433
33728	gctcttcagcaggacattctactct	L49433

SEQ ID NO:	sequence	DBAxnID
76265	tcagccgctcatcttcacagcacag	AA097860
76266	gctcatcttcacagcacagcagccg	AA097860
76267	tcatcttcacagcacagcagccgga	AA097860
76268	atcttcacagcacagcagccggaga	AA097860
76269	agcacagcagccggagagccaagag	AA097860
76270	cacagcagccggagagccaagagtg	AA097860
76271	catctaccacgtcggggactggcta	AA097860
76272	taccacgtcggggactggctacaag	AA097860
76273	agggaccttcggccgagttgtgcag	AA097860
76274	cagcagttaccgaagccagcgtaga	AA097860
76275	gcagttaccgaagccagcgtagagc	AA097860
76276	agttaccgaagccagcgtagagccg	AA097860
76277	ttaccgaagccagcgtagagccgaa	AA097860
76278	cgaagccagcgtagagccgaagaaa	AA097860
76279	agccggacattcagccgctcatctt	AA097860
76280	ggacattcagccgctcatcttcaca	AA097860
76281	acattcagccgctcatcttcacagc	AA097860
76282	atctttcagcggcagagccacaaga	X97796
76283	gagcgccacttttctcttggtgagc	X97796
76284	aaccacagcacagataaacgaggcc	X97796
76285	gataaacgaggcctccaggatgagg	X97796
76286	cgaggcctccaggatgaggtactcc	X97796
76287	gatgcttcatctacagccatcacct	X97796
76288	tcatctacagccatcaccttcgtct	X97796
76289	ttccaccagcgttctcatgaggagc	X97796
76290	cagcgcggtcttcactgataatcag	X97796
76291	ggtcttcactgataatcagctggtc	X97796
76292	ggctctgctcagttttattctctgg	X97796
76293	gctcagttttattctctgggagaaa	X97796
76294	gagctgtttactctggatgaagcaa	X97796
76295	tttactctggatgaagcaagcctca	X97796
76296	agcctcagtgacacacatgacagat	X97796
76297	gacagattgcattgccgccgttgtg	X97796
76298	ccccctgatggttctgactgcactt	X97796
76299	gatggttctgactgcacttcagacc	X97796
76300	tctgactgcacttcagacctggctc	X97796
76301	tcagacctggctcagtggaaccaca	X97796
76302	catcgtagccaatgtgcccgaagtg	AA080277
76303	cgtagccaatgtgcccgaagtgtat	AA080277
76304	gcaaaaactgcctggtgaagaacct	AA080277
76305	cgtccaccatctgctcagacaagac	AA080277
76306	accgcatgacagtggctcacatgtg	AA080277
76307	gcatgacagtggctcacatgtggtt	AA080277
76308	ggtttgacaaccagatccatgaggc	AA080277
76309	ttgacaaccagatccatgaggctga	AA080277
76310	acaaccagatccatgaggctgacac	AA080277
76311	agatccatgaggctgacaccacaga	AA080277
76312	tccatgaggctgacaccacagagga	AA080277
76313	atgaggctgacaccacagaggacca	AA080277
76314	agccaatgtgcccgaagtgtatggc	AA080277
76315	tgtgcccgaagtgtatggccaccgt	AA080277
76316	cgaagtgtatggccaccgtgactgt	AA080277
76317	tgacgctgacagccaagcgcatggc	AA080277
76318	cgctgacagccaagcgcatggctcg	AA080277
76319	tgacagccaagcgcatggctcgcaa	AA080277
76320	ccaagcgcatggctcgcaaaaactg	AA080277
76321	ctcgcaaaaactgcctggtgaagaa	AA080277
76322	tccaacctgtgcacctggctgcgcg	AA080241
76323	acctgtgcacctggctgcgcggatg	AA080241
76324	agcaccccaagtttgatgagattct	AA080241
76325	caccccaagtttgatgagattctca	AA080241
76326	tgagattctcactcgccttcgtctg	AA080241
76327	agattctcactcgccttcgtctgca	AA080241
76328	attctcactcgccttcgtctgcaga	AA080241
76329	actcgccttcgtctgcagaagctcg	AA080241
76330	gccttcgtctgcagaagctcggcac	AA080241
76331	cttcgtctgcagaagctcggcacag	AA080241
76332	tcgtctgcagaagctcggcacaggt	AA080241

SEQ ID NO	sequence	DBAxnID
118869	agtccctggctgctaaggtcagtgg	D26090
118870	aatatccagagcacgctatccgaaa	D26090
118871	tgcagctcatgctacgaggggtga	D26090
118872	agatccaacaccgtatgcagcgcaa	D26090
118873	agtgagcccattgcccatcaaccct	D26090
118874	tcagtgctccaaacctccttttgcc	D26090
118875	gtctgcagcacatctgcagcccctg	D26090
118876	agcacatctgcagcccctggaaatg	D26090
118877	tctgcagcccctggaaatgtacttt	D26090
118878	tagcactttcattggagggtatttg	AA152808
118879	cgctgctccggttgctaattcaatg	AA152808
118880	ctgttccatgacttcaggggccatc	AA152808
118881	ttccatgacttcaggggccatccaa	AA152808
118882	gacttcaggggccatccaacatggg	AA152808
118883	ttcaggggccatccaacatggggta	AA152808
118884	catccaacatggggtaccaacaaat	AA152808
118885	tgcgcttactccaaaatctgctatt	AA152808
118886	gcttactccaaaatctgctatttgt	AA152808
118887	tactccaaaatctgctatttgtact	AA152808
118888	atctgctatttgtactgagccatcc	AA152808
118889	tgctatttgtactgagccatcctca	AA152808
118890	tgctccggttgctaattcaatggca	AA152808
118891	tccggttgctaattcaatggcagtt	AA152808
118892	agttattccaaaactccacatatca	AA152808
118893	actccacatatcagccttgaagtca	AA152808
118894	ccacatatcagccttgaagtcatag	AA152808
118895	atcagccttgaagtcatagcctctc	AA152808
118896	gcctctcacctgttccatgacttca	AA152808
118897	cacctgttccatgacttcaggggcc	AA152808
118898	tgaagcaaatcgcgatcgcgtggca	M20567
118899	tcgcgatcgcgtggcagccaaaaat	M20567
118900	catcatcagcaaactttaccaaggc	M20567
118901	ctctggagggcccaccatcgaggaa	M20567
118902	gcccaccatcgaggaagtggactag	M20567
118903	agtggactaggcttgcgctggagtc	M20567
118904	ctaggcttgcgctggagtccgcgta	M20567
118905	ttaaatgtccttgtgccaagtaaga	M20567
118906	aatgtccttgtgccaagtaagatct	M20567
118907	gtccttgtgccaagtaagatctatt	M20567
118908	tggaagtctttagcctggtgcatac	M20567
118909	aagtctttagcctggtgcatacata	M20567
118910	cgatcgcgtggcagccaaaaatgcg	M20567
118911	tcgcgtggcagccaaaaatgcggtg	M20567
118912	ggagtcctatacctacaacatcaag	M20567
118913	gtcctatacctacaacatcaagcag	M20567
118914	ctatacctacaacatcaagcagacc	M20567
118915	tacctacaacatcaagcagaccgtg	M20567
118916	caagcagaccgtggaagacgagaaa	M20567
118917	ccccatcatcagcaaactttaccaa	M20567
118918	tgctgagtccaatctacagatatat	M77015
118919	acttggtcacactgacagctagtac	M77015
118920	tttagtgccttaatcaagtcaccaa	M77015
118921	gccttaatcaagtcaccaaagcctt	M77015
118922	atcaagtcaccaaagccttgccagt	M77015
118923	tgccagtcactgacccagccacaag	M77015
118924	acccagccacaagccttctttctga	M77015
118925	gcaccacttgtacctcagagctctc	M77015
118926	cttgtacctcagagctctctccatt	M77015
118927	aaagcatgtatagccttccgaaaat	M77015
118928	tgtatagccttccgaaaattctgct	M77015
118929	cgaaaattctgctagctttatgaag	M77015
118930	tcacactgacagctagtacgttcac	M77015
118931	caaagtctcagtgatgggaagatga	M77015
118932	atggagacatggccctgggtattac	M77015
118933	gtattaccagtccagtaaggacagt	M77015
118934	acaggtgctgttgccttcttttgac	M77015
118935	gctgttgccttcttttgacacagag	M77015
118936	gccttcttttgacacagaggccaat	M77015

TABLE 1

SEQ ID NO	sequence	DBAxnID
33729	cagcaggacattctactctctttca	L49433
33730	gacattctactctctttcaagatta	L49433
33731	ctactctctttcaagattagtaatc	L49433
33732	taagcttagtctgttgcaagggaag	L49433
33733	tagtctgttgcaagggaaggtctat	L49433
33734	gtctcgagaagccaacccagagaag	AA000227
33735	cagccgctttcggaataagatgttc	AA000227
33736	accgcagtgcatcgtctttctgaat	AA000227
33737	gtgcatcgtctttctgaatatcccc	AA000227
33738	tctgaatatccccaggtactgtgca	AA000227
33739	tatccccaggtactgtgcaggcacc	AA000227
33740	gcaccatgacttcgagccccagagg	AA000227
33741	tgacttcgagccccagaggcatgat	AA000227
33742	cttcgagccccagaggcatgatgat	AA000227
33743	cgagccccagaggcatgatgatggc	AA000227
33744	gccccagaggcatgatgatggctac	AA000227
33745	tgatgatggctacctggaggtcatc	AA000227
33746	ctatgctgggacggccttctctgac	AA000227
33747	tgatggctacctggaggtcatcggc	AA000227
33748	ctctgacttcctgatgggcagctcc	AA000227
33749	cttcctgatgggcagctccaaggac	AA000227
33750	cttagccaagcacatccgagtagtg	AA000227
33751	caagcacatccgagtagtgtgtgac	AA000227
33752	catccgagtagtgtgtgacggaatg	AA000227
33753	tcaggacctgaaaccgcagtgcatc	AA000227
33754	cctgaaaccgcagtgcatcgtcttt	AA000227
33755	aacatctgaatctgacatagtgttg	U31993
33756	ctgaagtcccagcacttgggaactg	U31993
33757	catctggtcatcattgcacaagaat	U31993
33758	gtcatcattgcacaagaatccacag	U31993
33759	caagaatccacagcccgttcccaga	U31993
33760	gcccgttcccagagctcatagccaa	U31993
33761	agtgtgttgctcattccttgaatat	U31993
33762	tttattctgtacctactattcatca	U31993
33763	ctgtacctactattcatcagacatt	U31993
33764	ctactattcatcagacatttggaat	U31993
33765	ttacatgacacagccttagccacta	U31993
33766	gctgccctggctgcagaagagcagg	U31993
33767	tcccagcacttgggaactgagactt	U31993
33768	agcaggtcgtctcgttccagtcgac	U31993
33769	tgatgatctcctgaagccaggtgtt	U31993
33770	catagcaagacctcagagaaatcaa	U31993
33771	aaatcaatgcagacatcttggtact	U31993
33772	atgcagacatcttggtactgatccc	U31993
33773	acatcttggtactgatccctaaaca	U31993
33774	acccgacatgagcatctggtcatca	U31993
33775	catgagcatctggtcatcattgcac	U31993
33776	ctgctgccatggcgctgggtagctc	AA000252
33777	gtagctctctgcctgatgagtctgc	AA000252
33778	aatatcacatctagcatccctggaa	AA000252
33779	acatctagcatccctggaagtacca	AA000252
33780	agcatccctggaagtaccagccact	AA000252
33781	cctggaagtaccagccactacttga	AA000252
33782	agccactacttgatctatcaggaca	AA000252
33783	atctatcaggacagcagtaagacca	AA000252
33784	agcagtaagaccacaccagccatct	AA000252
33785	acaccagccatctcagagactatgg	AA000252
33786	gccatctcagagactatggtcaact	AA000252
33787	tctgggatcccttcaggctctggaa	AA000252
33788	ctctgcctgatgagtctgctgcatc	AA000252
33789	atcccttcaggctctggaactccac	AA000252
33790	ctaaataacttgacttctgctacca	AA000252
33791	aacttgacttctgctaccacggaga	AA000252
33792	acttctgctaccacggagacttcta	AA000252
33793	acggagacttctacacaaggaatat	AA000252
33794	acttctacacaaggaatatccccat	AA000252
33795	acacaaggaatatccccatcagttc	AA000252
33796	cctaccaatgagtctgttgaggaaa	AA000252
76333	gtctgcagaagctcggcacaggtgg	AA080241
76334	ctgcgcggatgcgtgcacgtgaagc	AA080241
76335	atgcgtgcacgtgaagctggcgaac	AA080241
76336	acgtgaagctggcgaacctgagcaa	AA080241
76337	cgaacctgagcaagcaccccaagtt	AA080241
76338	aacctgagcaagcaccccaagtttg	AA080241
76339	cctgagcaagcaccccaagtttgat	AA080241
76340	agcaagcaccccaagtttgatgaga	AA080241
76341	caagcaccccaagtttgatgagatt	AA080241
76342	tatcaaaaacttcatgccaactcta	X89749
76343	aaacttcatgccaactctagaagag	X89749
76344	caactttacagacacctctctcgtg	X89749
76345	tacagacacctctctcgtgtaccca	X89749
76346	cacctctctcgtgtacccagaggac	X89749
76347	cacttgcaaatctggacccagtcca	X89749
76348	tggacccagtccaaaccctcagagt	X89749
76349	tggattccagcttctagtggatgtt	X89749
76350	tgcactcaaacgagcggcagagatg	X89749
76351	caaacgagcggcagagatggagctt	X89749
76352	tcaggccaaactcacagcttaaccg	X89749
76353	gttctccaaaatacggtcctgattg	X89749
76354	catgccaactctagaagagagccca	X89749
76355	cccaggatccattttggctcgcccg	X89749
76356	tcgcccgtcagtgatctgccatacc	X89749
76357	gtcagtgatctgccataccactgtg	X89749
76358	gatctgccataccactgtgactgca	X89749
76359	cactgtgactgcattgaaggatggg	X89749
76360	ctctctctgtcagccgattggtgtg	X89749
76361	agatgtaccgcaaatagcacccagc	X89749
76362	tgacctaggggtttctgttggatag	X99807
76363	ctactcttacattctaaaccgatga	X99807
76364	ctgcatgtatctgtgcatcttgttc	X99807
76365	atttaatgctgtactgttctgctga	X99807
76366	tgctgtactgttctgctgagctctg	X99807
76367	actgttctgctgagctctgagggac	X99807
76368	agctctgagggactatcttgagaga	X99807
76369	ttaatctgcgtactgcttaagacag	X99807
76370	gtatttccataatcaatgatggttt	X99807
76371	taagtcctatgaacctgacctcttt	X99807
76372	ctatgaacctgacctcttttatggc	X99807
76373	gtggctacagtacacacttatcaaa	X99807
76374	ttacattctaaaccgatgaaatctt	X99807
76375	tctaaaccgatgaaatctttaacag	X99807
76376	aatatctactcatcatttttctctc	X99807
76377	tactcatcatttttctctctcagag	X99807
76378	ttctctctcagagtcctagcttgag	X99807
76379	ctcagagtcctagcttgagttgcac	X99807
76380	gtcctagcttgagttgcactgcatg	X99807
76381	gcttgagttgcactgcatgtatctg	X99807
76382	ggtccaggacctgaagacagagccc	X91144
76383	gcctgcccacctaagcgagaccttt	X91144
76384	tccttgcgttctccagaaagactca	X91144
76385	cgttctccagaaagactcagctccc	X91144
76386	gccgccatgtctgcttctctgattc	X91144
76387	gcttctctgattccagtggcaggta	X91144
76388	ctgattccagtggcaggtagcctgg	X91144
76389	tgtgaaccaacgagtttccgtacag	X91144
76390	agtttccgtacagtgacagaatgac	X91144
76391	gcctggcccagcacaggcatccaat	X91144
76392	cccagcacaggcatccaataaacat	X91144
76393	acaggcatccaataaacatattata	X91144
76394	ccacctaagcgagaccttgctagc	X91144
76395	aagcgagaccttgctagctccact	X91144
76396	ccgctggtcacggaggtcatagatc	X91144
76397	atagatctgggcttcctgggtgaaa	X91144
76398	ctgggcttcctgggtgaaatgtatt	X91144
76399	tccctgcaggtcactggatacctgt	X91144
76400	caggtcactggatacctgtccttgc	X91144
118937	ttttgacacagaggccaatttagtg	M77015
118938	acacaaagtgccagtgatggaaaaa	M58567
118939	ggtacatggctctgggagttataag	M58567
118940	ctttctcaagtcaccagaagccttg	M58567
118941	caagtcaccagaagccttgccagtc	M58567
118942	aacatagctgagtctcagttcttag	M58567
118943	gctgagtctcagttcttaggcttca	M58567
118944	tctcagttcttaggcttcagcaatt	M58567
118945	cagttcttaggcttcagcaattaca	M58567
118946	ttcttaggcttcagcaattacaatt	M58567
118947	ctaaatcatatcctgcctttggtaa	M58567
118948	ttggtaaaatcccattgctttctga	M58567
118949	gtaaaatcccattgctttctgaagc	M58567
118950	agtacagaggcacaagccaggtcct	M58567
118951	gaggcacaagccaggtcctgctgtc	M58567
118952	gcacaagccaggtcctgctgtctcc	M58567
118953	aggtcctgctgtctcctgtagacac	M58567
118954	tgctgtctcctgtagacacagagac	M58567
118955	agaccaacttggtatctttctcaag	M58567
118956	ccaacttggtatctttctcaagtca	M58567
118957	tggtatctttctcaagtcaccagaa	M58567
118958	acaataactgcggcatcgagatcta	AA124985
118959	ataactgcggcatcgagatctacta	AA124985
118960	agccttgcttcaataccctgcgcac	AA124985
118961	gcttcaataccctgcgcaccaagga	AA124985
118962	ccctgcgcaccaaggagcagcttgg	AA124985
118963	gctatattgtcttcagtggaccccg	AA124985
118964	atattgtcttcagtggaccccgtcg	AA124985
118965	acggtatccaaggcttgcgcttcat	AA124985
118966	gtatccaaggcttgcgcttcatcat	AA124985
118967	gcttgcgcttcatcatccagtcaga	AA124985
118968	tgcgcttcatcatccagtcagaaaa	AA124985
118969	gcttcatcatccagtcagaaaaacc	AA124985
118970	gcatcgagatctactaccagacaga	AA124985
118971	tcgagatctactaccagacagacat	AA124985
118972	actaccagacagacatgcagagcac	AA124985
118973	cagacatgcagagcacctcggagaa	AA124985
118974	tgcagagcacctcggagaacatgtt	AA124985
118975	acatgttcctggagctgttttgcca	AA124985
118976	tcctggagctgttttgccagattat	AA124985
118977	ttatctcggagccttgcttcaatac	AA124985
118978	ggactgaagactgctggtggccaga	AA138105
118979	ctgaagactgctggtggccagagag	AA138105
118980	cttatcatcctcatttccatccttg	AA138105
118981	atcatcctcatttccatccttgtcg	AA138105
118982	ctcatttccatccttgtcggctgcc	AA138105
118983	atttccatccttgtcggctgccaac	AA138105
118984	gtcggctgccaacctgctcatcgtc	AA138105
118985	gctcatcgtcaccgggaccttcgtc	AA138105
118986	caccgggaccttcgtcatggccatc	AA138105
118987	cgtcatggccatcggttcgtgggct	AA138105
118988	catggccatcggttcgtgggctgca	AA138105
118989	tgcattggggccctcaaggagaaca	AA138105
118990	aagactgctggtggccagagagctg	AA138105
118991	agagctgaagcgctgcagcatggcg	AA138105
118992	cgtcaagtacctcatgttcgccttc	AA138105
118993	gtacctcatgttcgccttcaacctg	AA138105
118994	catgttcgccttcaacctgctcttc	AA138105
118995	tggcatctggttggcttccacacag	AA138105
118996	catctggttggcttccacacaggga	AA138105
118997	aaactttgccaccttatcatcctca	AA138105
118998	ctccctaggtgctgccagtgaggat	AA015155
118999	aggtgctgccagtgaggatgacccg	AA015155
119000	acaagatctgccagtcggagctcaa	AA015155
119001	gccagtcggagctcaaggagttgtt	AA015155
119002	tgcccacctggacgccgagtgagtt	AA015155
119003	tggataccaacaaagactgcgaagt	AA015155
119004	ataccaacaaagactgcgaagtgga	AA015155

TABLE 1

SEQ ID NO	sequence	DBAxnID
33797	gccccctggaagatggcctgttctt	U37501
33798	atggcctgttcttcccaggcagtga	U37501
33799	accccaagctttgtgatggacggtg	U37501
33800	gcagggacacactccggctggaggt	U37501
33801	acacactccggctggaggtagacac	U37501
33802	acaccacaggccgtttgccagagag	U37501
33803	ctggttctccagcacttctgcacct	U37501
33804	gcctgcccaagtcttcaactgctcg	U37501
33805	ggccagagctccctgcctaccgagg	U37501
33806	atgggccccctgtcaacgtgactgc	U37501
33807	cccctgtcaacgtgactgcttctgt	U37501
33808	tgactgcttctgtacaaatccaggg	U37501
33809	tgttcttcccaggcagtgagggagt	U37501
33810	ttgtcacattagagctccccaaggc	U37501
33811	cattagagctccccaaggccaagat	U37501
33812	tgccctatgtgagcctggagctaga	U37501
33813	atgtgagcctggagctagagatgcg	U37501
33814	agctagagatgcggcccttggcagc	U37501
33815	ggcccttggcagctgctggcctcat	U37501
33816	ctgctggcctcatcttccacctggg	U37501
33817	gctcttgcgacgaccagacagaaaa	AA000278
33818	cttgcgacgaccagacagaaaactg	AA000278
33819	ctgtcaagcaacttaagaggccata	AA000278
33820	catatcatctacgatgaccattgca	AA000278
33821	atctacgatgaccattgcaggaaaa	AA000278
33822	caagtgtactacgcggacgatctgt	AA000278
33823	gtgtactacgcggacgatctgtcac	AA000278
33824	gacgatctgtcactagtagtaagcc	AA000278
33825	agccgcttgggcttaacttacatct	AA000278
33826	ttaacttacatctgtagtggaactc	AA000278
33827	acttacatctgtagtggaactcctt	AA000278
33828	agtggaactccttagtgcttgtagc	AA000278
33829	ctaccctgagtccaatcaagagcct	AA000278
33830	gtccaatcaagagcctggttaactg	AA000278
33831	tcaagagcctggttaactgtcagca	AA000278
33832	ttaactgtcagcaggaactgacacg	AA000278
33833	ttcatcatgatcagtctgtcaagca	AA000278
33834	atcatgatcagtctgtcaagcaact	AA000278
33835	atgatcagtctgtcaagcaacttaa	AA000278
33836	agtctgtcaagcaacttaagaggcc	AA000278
33837	agctccacggcctgaatatcaacta	AA003841
33838	tccacggcctgaatatcaactacaa	AA003841
33839	tcatggcatgaggtgtttgggcatc	AA003841
33840	gggcatcccaaacactgcccacttt	AA003841
33841	cactgcccactttgcaaatgtgaca	AA003841
33842	tgcccactttgcaaatgtgacacag	AA003841
33843	tgaagatgctgtctccttgtgggcc	AA003841
33844	ctccttgtgggccaagctgaaactg	AA003841
33845	ggcttcagaacggtggcagcctgac	AA003841
33846	ttcagaacggtggcagcctgacacc	AA003841
33847	gcagcctgacaccgaggaagaatat	AA003841
33848	gcctgacaccgaggaagaatatgaa	AA003841
33849	tgaatatcaactacaactgtgagat	AA003841
33850	atatcaactacaactgtgagatctg	AA003841
33851	tcaactacaactgtgagatctgtgg	AA003841
33852	ccaaggcttccagcggcactttgcg	AA003841
33853	aggcttccagcggcactttgcggag	AA003841
33854	gcactttgcggagtggcgtcatgct	AA003841
33855	tcatgctcatggcatgaggtgtttg	AA003841
33856	tgctcatggcatgaggtgtttgggc	AA003841
33857	tgcacgacgcagcgcgggaaggctt	L76150
33858	aaggcttcctggacacgctggtggt	L76150
33859	acgggcatagcttcagctcaagcac	L76150
33860	gcttcagctcaagcacgcccagggc	L76150
33861	gcggccaatcccaagagcagagcta	L76150
33862	gccaatcccaagagcagagctaaat	L76150
33863	tttcttcttagcttcacttctagcg	L76150
33864	cttcttagcttcacttctagcgatg	L76150

SEQ ID NO:	sequence	DBAxnID
76401	tacctgtccttgcgttctccagaaa	X91144
76402	gttctgaggactcgttgccagcctt	Z22784
76403	aggactcgttgccagcctttggagt	Z22784
76404	aagatctatgacctccgtggcaagt	Z22784
76405	atctatgacctccgtggcaagttta	Z22784
76406	tatgacctccgtggcaagtttaagc	Z22784
76407	accctccgaagagtgaggatctctg	Z22784
76408	aggatctctgcagatgccatgatgc	Z22784
76409	gatgccatgatgcaggcgctgctgg	Z22784
76410	atcgatgcactgagtggcatggaag	Z22784
76411	gatgcactgagtggcatggaaggcc	Z22784
76412	gcactgagtggcatggaaggccgca	Z22784
76413	tgagccatggctcccacactgtgct	Z22784
76414	tgccagcctttggagttggatgggc	Z22784
76415	ctgaaggacgtccctgcagaataaa	Z22784
76416	gagcttcaggacttatgccgacagc	Z22784
76417	ttatgccgacagcttcacgctcggg	Z22784
76418	tgccgacagcttcacgctcgggtgg	Z22784
76419	aacatcactgagattgcagatctga	Z22784
76420	attgcagatctgacccagaagatct	Z22784
76421	gatctgacccagaagatctatgacc	Z22784
76422	ctgacccagaagatctatgacctcc	Z22784
76423	agttcagccgtgacctgaaacgcaa	D86725
76424	acctgaaacgcaaactgatcctaca	D86725
76425	ccctctagagcactcttcttggcca	D86725
76426	agagcactcttcttggccagaccct	D86725
76427	agaccctctgtccaaggctcattag	D86725
76428	attgctgttttggcatgagttgtgt	D86725
76429	tttccaaaacattctcaaagcctgt	D86725
76430	tctcaaagcctgtgatggaggagca	D86725
76431	aggagcacaagaccctgtctgctga	D86725
76432	acaagaccctgtctgctgagggccc	D86725
76433	agccagtgccttcatttgcttgttg	D86725
76434	tgccttcatttgcttgttgtacagt	D86725
76435	aacgcaaactgatcctacagcagtt	D86725
76436	aactgatcctacagcagttctgaga	D86725
76437	tcctacagcagttctgagaccagca	D86725
76438	tctgagaccagcacaggggcctcta	D86725
76439	acaggggcctctatgtctgaatgag	D86725
76440	ggctcggtcaccacgctgagcctac	D86725
76441	cagacctttacctgtgagcccctag	D86725
76442	tttacctgtgagcccctaggccaag	D86725
76443	acacactacgatcacgttctgattg	D86726
76444	tacgatcacgttctgattgagctca	D86726
76445	gcttgggcactctgtcaataggctt	D86726
76446	gcactctgtcaataggcttcttgta	D86726
76447	taggcttcttgtactattgaagttg	D86726
76448	aagacatttcttcatgtataggaaa	D86726
76449	aagcctgctgcatttgtcatacatg	D86726
76450	atacatgtgtctgtggaaattgctt	D86726
76451	attgctttcttctgttcccagccac	D86726
76452	ttcttctgttcccagccactgcttt	D86726
76453	tgttcccagccactgcttttaccca	D86726
76454	cagccactgcttttacccatgaaaa	D86726
76455	ctgattgagctcacccaggctgggc	D86726
76456	ctgaaaggctccagtgaaggaagcg	D86726
76457	gtcaaccctaactacttgcttgaag	D86726
76458	tacttgcttgaagattgaggtattg	D86726
76459	aacttgatggccagggacctgtgct	D86726
76460	atggccagggacctgtgctgtccta	D86726
76461	gaccctgcacggcactgagagacag	D86726
76462	aatttcatactgggacaggcttggg	D86726
76463	cctttctgcgtctgcccacgtagtg	D37792
76464	tgcgtctgcccacgtagtgctcttt	D37792
76465	actgccctccaaatctactcttctt	D37792
76466	atctactcttctttaagcaatatg	D37792
76467	ttgtatcacaccgttgtatatacca	D37792
76468	cacaccgttgtatataccagtatgc	D37792

SEQ ID NO:	sequence	DBAxnID
119005	ccaacaaagactgcgaagtggactt	AA015155
119006	agtacgtgcgctcacttgccagcct	AA015155
119007	gctcacttgccagcctctgtctcta	AA015155
119008	cacttgccagcctctgtctctactg	AA015155
119009	ttgccagcctctgtctctactgcca	AA015155
119010	ggcccctggagcaggcagtagctgc	AA015155
119011	gcctctgtctctactgccacgagta	AA015155
119012	aggcagtagctgccatcgtgtgcac	AA015155
119013	tagctgccatcgtgtgcaccttcca	AA015155
119014	ctgccatcgtgtgcaccttccagga	AA015155
119015	tcgtgtgcaccttccaggagtatgc	AA015155
119016	tgtgcaccttccaggagtatgcagg	AA015155
119017	gcaccttccaggagtatgcagggcg	AA015155
119018	atgcagggcgctgtggggataaata	AA015155
119019	tttcctggctggaggccaaccagct	M32218
119020	aggccaaccagctggctgagaaaga	M32218
119021	ttcttgaactgactggactcaagcc	M32218
119022	aactgactggactcaagcctacgtc	M32218
119023	ctggactcaagcctacgtcaccatc	M32218
119024	tctcatctatgatcctgaactggac	M32218
119025	ctatgatcctgaactggacctttag	M32218
119026	ccctctttgagccatttgaagaatt	M32218
119027	ggttatttgtctctcagtaaatttg	M32218
119028	ttgtctctcagtaaatttgttccca	M32218
119029	ttttagtcagggccttactgtatat	M32218
119030	tcagggccttactgtatatgtctag	M32218
119031	tgtgtaatccgatcatcacaaaact	M32218
119032	cagggccttactgtatatgtctaga	M32218
119033	atccgatcatcacaaaactgtacca	M32218
119034	tcatcacaaaactgtaccagagcgg	M32218
119035	cagggtatactcccggcagggctgc	M32218
119036	tagattagccttttccagaattgca	M32218
119037	agccttttccagaattgcagggtgc	M32218
119038	aattgcagggtgctagggtgcctct	M32218
119039	attcatcttcaaacatcaatatgat	M32218
119040	aattgaaatcagcaccattgcaagc	W20901
119041	tgaaatcagcaccattgcaagcaac	W20901
119042	ccagtcacaacaacttgaaaccagc	W20901
119043	acaacttgaaaccagctcacaaaga	W20901
119044	acttgaaaccagctcacaaagagac	W20901
119045	tgaaaccagctcacaaagagacttc	W20901
119046	aaccagctcacaaagagacttcaaa	W20901
119047	ggacaaactcacaaaggatgctcag	W20901
119048	tcagcatgccttacgcagaactatg	W20901
119049	gcatgccttacgcagaactatggag	W20901
119050	tgccttacgcagaactatggagaaa	W20901
119051	cttacgcagaactatggagaaatac	W20901
119052	cagcaccattgcaagcaactaccac	W20901
119053	cattgcaagcaactaccaccttgaa	W20901
119054	tgcaagcaactaccaccttgaagtt	W20901
119055	ccaccttgaagttaatcccagtgat	W20901
119056	ccttgaagttaatcccagtgatgcg	W20901
119057	taatcccagtgatgcggggaacagc	W20901
119058	gaacagcgaccgagttgtaattcag	W20901
119059	agtggcccagtcacaacaacttgaa	W20901
119060	gcacgaggccacaaccaaagttatt	W20903
119061	tattaccttaatggatgctccaggc	W20903
119062	gatcacaggagcagcccaggccgat	W20903
119063	cacaggagcagcccaggccgatgtc	W20903
119064	tgatgccagcagaggagagtttgaa	W20903
119065	ccgagagcatggccttttggtccga	W20903
119066	agagcatggccttttggtccgatct	W20903
119067	ggtccgatctcttggagtgacacag	W20903
119068	atctcttggagtgacacagcttgct	W20903
119069	agtgacacagcttgctgtggctgtc	W20903
119070	acagcttgctgtggctgtcaataag	W20903
119071	gcttgctgtggctgtcaataagatg	W20903
119072	taccttaatggatgctccaggccat	W20903

TABLE 1

SEQ ID NO	sequence	DBAxnID
33865	acttctagcgatgctagcgtgtcta	L76150
33866	tctagcgatgctagcgtgtctagca	L76150
33867	gctagcgtgtctagcatgtggcttt	L76150
33868	agcgtgtctagcatgtggctttaaa	L76150
33869	acacgctggtggtgctgcacgggtc	L76150
33870	tgccgctcgacttggcccaagagcg	L76150
33871	gacatcaagacatcgtgcgatattt	L76150
33872	aagacatcgtgcgatatttgcgttc	L76150
33873	gatatttgcgttccgctgggtgctc	L76150
33874	acgtcgcccagaccgacgggcatag	L76150
33875	tcgcccagaccgacgggcatagctt	L76150
33876	agaccgacgggcatagcttcagctc	L76150
33877	atcctatgactatcaggcagcctgt	AA000341
33878	tgactatcaggcagcctgtgcccct	AA000341
33879	ccagcagctactctatggtctcatc	AA000341
33880	gctactctatggtctcatctatcac	AA000341
33881	ctatggtctcatctatcacagctgg	AA000341
33882	tctcatctatcacagctggttccag	AA000341
33883	ctatcacagctggttccaggcagac	AA000341
33884	cagctggttccaggcagacccggca	AA000341
33885	cagccccgagacgcgcgagacagct	AA000341
33886	atgaaacagacccagtactacttcg	AA000341
33887	cagacccagtactacttcggctcgg	AA000341
33888	cagtactacttcggctcggtgaacg	AA000341
33889	tgtctttgtgcccaccattgcagat	AA000341
33890	tacttcggctcggtgaacgcatcct	AA000341
33891	tgtgcccaccattgcagatttcctt	AA000341
33892	caccattgcagatttccttaacttg	AA000341
33893	tgcagatttccttaacttggcctgg	AA000341
33894	taacttggcctggtggacctctgct	AA000341
33895	tgccgcctggtccttattccagcag	AA000341
33896	ctggtccttattccagcagctactc	AA000341
33897	cttattccagcagctactctatggt	AA000341
33898	attaatcagctgttgcaggcagtgt	U33629
33899	cagctgttgcaggcagtgtcttaag	U33629
33900	ttcctgttttatgcagctcaaaaaa	U33629
33901	ttgactttgtttctcagcaaagcat	U33629
33902	ttgtttctcagcaaagcattggtca	U33629
33903	ttccatagtcccaccttggagcatt	U33629
33904	agtcccaccttggagcatttatgta	U33629
33905	ttagtgcgaggtggcatgcatataa	U33629
33906	cttgtcaatagccttttttctatcaa	U33629
33907	taacagtcatggcacactgtgtcct	U33629
33908	cacactgtgtcctatcttagcattt	U33629
33909	gtgtcctatcttagcatttaaaagt	U33629
33910	ttgcaggcagtgtcttaaggagact	U33629
33911	gaagcctaactgtcacatcaagcat	U33629
33912	taactgtcacatcaagcatcatcgt	U33629
33913	tcacatcaagcatcatcgtccccat	U33629
33914	caagcatcatcgtccccatgcaaca	U33629
33915	catcaccttatacatcacttcctgt	U33629
33916	cttatacatcacttcctgttttatg	U33629
33917	catcacttcctgttttatgcagctc	U33629
33918	actgaatcctgaacagaaattcttg	AA000196
33919	ggttccaattcaaggcgccaggcat	AA000196
33920	tgttgttattggcccagggtatcgg	AA000196
33921	tattggcccagggtatcggcaggat	AA000196
33922	attggcccagggtatcggcaggatc	AA000196
33923	ttggcccagggtatcggcaggatct	AA000196
33924	ggatctggacaggggggctttataag	AA000196
33925	tacattccgtaccttaagattggat	AA000196
33926	acattccgtaccttaagattggatg	AA000196
33927	cattccgtaccttaagattggatga	AA000196
33928	attccgtaccttaagattggatgat	AA000196
33929	ttccgtaccttaagattggatgatc	AA000196
33930	gttccaattcaaggcgccaggcatc	AA000196
33931	ttccaattcaaggcgccaggcatct	AA000196
33932	tccaattcaaggcgccaggcatctg	AA000196
76469	gtaagcgtttcctaatctgtgtata	D37792
76470	agtatcgtctgcattccagcaaaaa	D37792
76471	gtctgcattccagcaaaaatatcaa	D37792
76472	gaactttctattgaatcctttgagt	D37792
76473	tctattgaatcctttgagtaccaag	D37792
76474	taccaagatttgctcacacgacatc	D37792
76475	cgtagtgctctttagccagtatctg	D37792
76476	gctctttagccagtatctgtaaata	D37792
76477	tgggtcctttcagtttccagccatg	D37792
76478	ctttcagtttccagccatgcattcc	D37792
76479	agccatgcattcctgatacaatcca	D37792
76480	gcattcctgatacaatccagtggta	D37792
76481	caatccagtggtacttcagatcctg	D37792
76482	gtagaaagcccctatgcccttcatc	D37792
76483	gacactgacgagatccagagctatc	D37793
76484	atccagagctatcaatacctcagtt	D37793
76485	gttttggaccaacaacatggcaagc	D37793
76486	gaccaacaacatggcaagcacattc	D37793
76487	ctgtttcttgactgtgaaggcaaca	D37793
76488	tttcttgactgtgaaggcaacatag	D37793
76489	gtgtacacctgtatgtgcccatcca	D37793
76490	tgcctgttttgaacatctctcttca	D37793
76491	acatctctcttcattttctggaatg	D37793
76492	tctctcttcattttctggaatgagt	D37793
76493	ctcttcattttctggaatgagtcat	D37793
76494	tcttcagagactccaagggaaagca	D37793
76495	cagagctatcaatacctcagttacg	D37793
76496	agctatcaatacctcagttacgcga	D37793
76497	gctctgttattgtccccggagcggt	D37793
76498	tccccggagcggtccttgttgcatg	D37793
76499	cccaagtggggccctctactgtcag	D37793
76500	cctctactgtcagacagttgaagca	D37793
76501	ctactgtcagacagttgaagcacta	D37793
76502	agttgaagcactaactgcttttcct	D37793
76503	gaagacctgttcgtcactacaaagc	AA117223
76504	gacctgttcgtcactacaaagcttt	AA117223
76505	gtcaagcctgccttggaaaagtcac	AA117223
76506	aagcttcagctggattatgttgatc	AA117223
76507	ctttacattatgcattacccagtgc	AA117223
76508	tacattatgcattacccagtgccaa	AA117223
76509	attatgcattacccagtgccaatga	AA117223
76510	atgcattacccagtgccaatgaagt	AA117223
76511	cattacccagtgccaatgaagtcag	AA117223
76512	tacccagtgccaatgaagtcagggg	AA117223
76513	aaatctctgttggacactgtggatt	AA117223
76514	tctctgttggacactgtggatttct	AA117223
76515	ctgttcgtcactacaaagctttggt	AA117223
76516	ttcgtcactacaaagctttggtgca	AA117223
76517	gtcactacaaagctttggtgcactt	AA117223
76518	ctttggtgcacttgctttcgaccag	AA117223
76519	tggtgcacttgctttcgaccagagc	AA117223
76520	acttgctttcgaccagagctggtca	AA117223
76521	tttcgaccagagctggtcaagcctg	AA117223
76522	ctggtcaagcctgccttggaaaagt	AA117223
76523	acccctggcgcagggactgctggaa	U71206
76524	ccctggcgcagggactgctggaacc	U71206
76525	gcactgtcgttttcagacagactct	U71206
76526	actgtcgttttcagacagactctgc	U71206
76527	ctgtcgttttcagacagactctgcg	U71206
76528	cgttttcagacagactctgcgggct	U71206
76529	gttttcagacagactctgcgggctc	U71206
76530	tttcagacagactctgcgggctccg	U71206
76531	ttcagacagactctgcgggctccga	U71206
76532	tcagacagactctgcgggctccgac	U71206
76533	agacagactctgcgggctccgaccc	U71206
76534	acagactctgcgggctccgacccga	U71206
76535	actgctggaacctggctgcgcgcac	U71206
76536	ctgctggaacctggctgcgcgcact	U71206
119073	aatggatgctccaggccataaggat	W20903
119074	tgctccaggccataaggatttcatt	W20903
119075	ggatttcattccaaacatgatcaca	W20903
119076	tttcattccaaacatgatcacagga	W20903
119077	cattccaaacatgatcacaggagca	W20903
119078	tccaaacatgatcacaggagcagcc	W20903
119079	catgatcacaggagcagcccaggcc	W20903
119080	agcccagtgctgctgttcctgatga	M13186
119081	ccagtgctgctgttcctgatgagat	M18186
119082	gctctctgctcatgtctacaagaat	M18186
119083	ctctgctcatgtctacaagaatctt	M18186
119084	tgctcatgtctacaagaatcttcta	M18186
119085	tgtctacaagaatcttctatcctgt	M18186
119086	ctacaagaatcttctatcctgtcct	M18186
119087	caagaatcttctatcctgtcctgtg	M18186
119088	gaatcttctatcctgtcctgtgcct	M18186
119089	tctatcctgtcctgtgccttaaggc	M18186
119090	atcctgtcctgtgccttaaggcagg	M18186
119091	tcctgtgccttaaggcaggaagatc	M18186
119092	gtgctgctgttcctgatgagatccc	M18186
119093	cccctctggaaggcgatgaggatgc	M18186
119094	atgaggatgcctcgcgcatggaaga	M18186
119095	aggatgcctcgcgcatggaagaggt	M18186
119096	atgcctcgcgcatggaagaggtgga	M18186
119097	tggattaaagcctcctggaagaagc	M18186
119098	cctctgtatagtatccccgtggctc	M18186
119099	ctggctctctgctcatgtctacaag	M18186
119100	catcgatgccaatggcatcctcaat	
119101	tgccaatggcatcctcaatgtttct	
119102	tgaaatcatcagctggctggataag	
119103	gaaccagactgcagagaaggaagaa	
119104	atttgagcatcagcagaaagaactg	
119105	agtctgcaaccctatcattaccaag	
119106	caaccctatcattaccaagctgtac	
119107	tatcattaccaagctgtaccagagt	
119108	gctgtaccagagtgcaggtggcatg	
119109	tggcttcccaggtggaggagctccc	
119110	agctcccccatctggtggtgcttct	
119111	cccatctggtggtgcttcttcaggc	
119112	tggcatcctcaatgtttctgctgta	
119113	cctcaatgtttctgctgtagataag	
119114	caagatcaccatcaccaatgacaag	
119115	caccaatgacaagggccgcttgagt	
119116	tgacaagggccgcttgagtaaggaa	
119117	ggtttcctccaagaactcactggag	
119118	actggagtcctatgccttcaacatg	
119119	tgccttcaacatgaaagcaactgtg	
119120	caagggccgcttgagtaaggaagat	
119121	atgccttcaacatgaaagcaactgt	
119122	tgccttcaacatgaaagcaactgtg	
119123	gccttcaacatgaaagcaactgtgg	
119124	ccttcaacatgaaagcaactgtgga	
119125	cttcaacatgaaagcaactgtggaa	
119126	attaagtcagtccaagaagaaggtg	
119127	caagggccgcttgagtaaggaagat	
119128	atgccttcaacatgaaagcaactgt	
119129	tgccttcaacatgaaagcaactgtg	
119130	gccttcaacatgaaagcaactgtgg	
119131	ccttcaacatgaaagcaactgtgga	
119132	cttcaacatgaaagcaactgtggaa	
119133	attcttgacaagtgcaatgaaatca	
119134	attaagtcagtccaagaagaaggtg	
119135	ctgcatggtcactgggagcaagtac	W20922
119136	gtacacagagttcaactcttccaca	W20922
119137	gtcctcagaatcagggatgtgaagg	W20922
119138	aaggacagcagcacatactcacggc	W20922
119139	gacagcagcacatactcacggctgt	W20922
119140	agcacatactcacggctgtcattct	W20922

TABLE 1

SEQ ID NO	sequence	DBAxnID
33933	ccaggcatctggggaacctgttgtt	AA000196
33934	ggcatctggggaacctgttgttatt	AA000196
33935	gcatctggggaacctgttgttattg	AA000196
33936	catctggggaacctgttgttattgg	AA000196
33937	ctgttgttattggcccagggtatcg	AA000196
33938	tataactgtctcctctgggtctgca	AA000203
33939	attctgacaaggattccttaatctt	AA000203
33940	atgggcctggcatactgtgcctaag	AA000203
33941	ggcctggcatactgtgcctaagcac	AA000203
33942	tggcatactgtgcctaagcacacag	AA000203
33943	gcatactgtgcctaagcacacaggg	AA000203
33944	tactgtgcctaagcacacaggggt	AA000203
33945	actgtgcctaagcacacaggggtc	AA000203
33946	tgtgcctaagcacacaggggtcta	AA000203
33947	gtgcctaagcacacaggggtctaa	AA000203
33948	cctaagcacacaggggtctaacag	AA000203
33949	taagcacacaggggtctaacagta	AA000203
33950	atcttcccagtgaacatcttcatgg	AA000203
33951	tcccagtgaacatcttcatgggcct	AA000203
33952	gtgaacatcttcatgggcctggcat	AA000203
33953	tgaacatcttcatgggcctggcata	AA000203
33954	aacatcttcatgggcctggcatact	AA000203
33955	acatcttcatgggcctggcatactg	AA000203
33956	tcttcatgggcctggcatactgtgc	AA000203
33957	ttcatgggcctggcatactgtgcct	AA000203
33958	ttccgttgcttgttcttcaagcagc	AA000396
33959	tccgttgcttgttcttcaagcagca	AA000396
33960	tgttcttcaagcagcacaaaatcaa	AA000396
33961	gttcttcaagcagcacaaaatcaac	AA000396
33962	ttcttcaagcagcacaaaatcaacg	AA000396
33963	tcttcaagcagcacaaaatcaacgg	AA000396
33964	cttcaagcagcacaaaatcaacggt	AA000396
33965	ttcaagcagcacaaaatcaacggtt	AA000396
33966	tcaagcagcacaaaatcaacggttc	AA000396
33967	caagcagcacaaaatcaacggttct	AA000396
33968	aagcagcacaaaatcaacggttctt	AA000396
33969	agcagcacaaaatcaacggttcttt	AA000396
33970	ccgttgcttgttcttcaagcagcac	AA000396
33971	cgttgcttgttcttcaagcagcaca	AA000396
33972	gttgcttgttcttcaagcagcacaa	AA000396
33973	ttgcttgttcttcaagcagcacaaa	AA000396
33974	tgcttgttcttcaagcagcacaaaa	AA000396
33975	gcttgttcttcaagcagcacaaaat	AA000396
33976	cttgttcttcaagcagcacaaaatc	AA000396
33977	ttgttcttcaagcagcacaaaatca	AA000396
33978	cctgatgcatgtcatgcagaagagg	U42471
33979	agtcatccattcctcagatgaaggg	U42471
33980	atacccaatctaaagtacacatgac	U42471
33981	aagtacacatgacgtcacctttcac	U42471
33982	acatgacgtcacctttcacctctca	U42471
33983	ctttcacctctcataactcagggat	U42471
33984	cctctcataactcagggatgaaaca	U42471
33985	tgtgttcattcacatcctaaatgag	U42471
33986	cattcacatcctaaatgagtagttt	U42471
33987	agtccctttggctttgatcttgct	U42471
33988	tattgagcctttcacaagtatgatc	U42471
33989	gcctttcacaagtatgatctattat	U42471
33990	tcagaccggcgaggatgaagaggat	U42471
33991	tgactaaagtcatcttccttccagc	U42471
33992	aagtcatcttccttccagcaagcca	U42471
33993	tcttccttccagcaagccagttcct	U42471
33994	cactcactctgccatctagattctg	U42471
33995	catctagattctgctcccgctggca	U42471
33996	gattctgctcccgctggcagcttcc	U42471
33997	gctggcagcttcccaattcacctgt	U42471
33998	atgattgtctgtaaccaggtgatga	AA000434
33999	gattgtctgtaaccaggtgatgaag	AA000434
34000	tctgctgttcaaacacaaggagcag	AA000434

SEQ ID NO:	sequence	DBAxnID
76537	tggaacctggctgcgcgcactgtcg	U71206
76538	tggctgcgcgcactgtcgttttcag	U71206
76539	ggctgcgcgcactgtcgttttcaga	U71206
76540	gcgcgcactgtcgttttcagacaga	U71206
76541	gcgcactgtcgttttcagacagact	U71206
76542	cgcactgtcgttttcagacagactc	U71206
76543	cttccctggtgcccatggaacactg	U64827
76544	gcataactcgcttctttgaggagtg	U64827
76545	gccaccatggcaatgtcactctgtg	U64827
76546	atggcaatgtcactctgtgcatctg	U64827
76547	caatgttcatattgtccataatacc	U64827
76548	tgtccataatacctatgcatgctg	U64827
76549	taatacctatgcatgctgaggaag	U64827
76550	cttatgcatgctgaggaagtgagat	U64827
76551	gtgagatactgctcttttgagataa	U64827
76552	tactgctcttttgagataaatatgc	U64827
76553	gagataaatatgcctccttttcagt	U64827
76554	tttcagtgtcttggatgtcctaata	U64827
76555	aggataagcacatcaccttgaagga	U64827
76556	agcacatcaccttgaaggaatgggg	U64827
76557	tagatgaaaacctcctcttttgaat	U64827
76558	cacctgctttaaccgcttcagaaat	U64827
76559	tacgagcagccatgacactatacat	U64827
76560	tttgtttggcatgtgagagaagaca	U64827
76561	agtaattacttcttggtgatatata	U64827
76562	cagttagccaccatggcaatgtcac	U64827
76563	tggcccagagtcttcaccatgccaa	W08774
76564	cccagagtcttcaccatgccaaact	W08774
76565	cactgcatggcctgcaggaaagctc	W08774
76566	acagcaccacagtggcagctcatga	W08774
76567	agcaccacagtggcagctcatgagt	W08774
76568	gcaccacagtggcagctcatgagtc	W08774
76569	accacagtggcagctcatgagtcag	W08774
76570	ctcagcacagacactggcgagcatc	W08774
76571	tcagcacagacactggcgagcatct	W08774
76572	agcacagacactggcgagcatcttg	W08774
76573	gcacagacactggcgagcatcttgg	W08774
76574	acagacactggcgagcatcttggcc	W08774
76575	ccagagtcttcaccatgccaaactg	W08774
76576	agagtcttcaccatgccaaactggg	W08774
76577	gtcttcaccatgccaaactggggtg	W08774
76578	aagacggtctaccatgcagaagaaa	W08774
76579	agacggtctaccatgcagaagaaat	W08774
76580	acggtctaccatgcagaagaaatcc	W08774
76581	cctgtttccactgcatggcctgcag	W08774
76582	tccactgcatggcctgcaggaaagc	W08774
76583	agggacctctaggagtgctggatgt	U54639
76584	tcgtgattctgctgtggcttcagag	U54639
76585	tgcatctcatgacttcctcctgcgg	U54639
76586	atctcatgacttcctcctgcggcag	U54639
76587	tgcctcaggaactcctccgagcgag	U54639
76588	tgcacgggcactgttctgaggatga	U54639
76589	acgggcactgttctgaggatgagga	U54639
76590	acatagcaactcataccaggagtga	U54639
76591	tagcaactcataccaggagtgagca	U54639
76592	caactcataccaggagtgagcagcc	U54639
76593	agcagccacacatggtggccacaat	U54639
76594	cacacatggtggccacaatattaga	U54639
76595	tgattctgctgtggcttcagagttc	U54639
76596	tgtggcttcagagttcgagctggtg	U54639
76597	agagttcgagctggtgcagctgcta	U54639
76598	gcagctgctacctggggatcgagag	U54639
76599	agagctgaccatcccacactcagct	U54639
76600	acactcagctaacgtcttctatgcc	U54639
76601	ctcagctaacgtcttctatgccatg	U54639
76602	cttctatgccatggatggtgcatct	U54639
76603	gagttcctactgacttgtcactagc	Z54200
76604	ctgacttgtcactagcctggtgctg	Z54200

SEQ ID NO:	sequence	DBAxnID
119141	tactcacggctgtcattctgccttc	W20922
119142	ctgtcattctgccttctgttcctgc	W20922
119143	tgccttctgttcctgccacctttcg	W20922
119144	tgaccccacttcatataaagaaggg	W20922
119145	ccagcaatgagccctgccacggggc	W20922
119146	gcaatgagccctgccacggggcaag	W20922
119147	gttcaactcttccacaacaggcact	W20922
119148	caactcttccacaacaggcactggc	W20922
119149	cacaacaggcactggcaccagccaa	W20922
119150	aacaggcactggcaccagccaaaca	W20922
119151	aggcactggcaccagccaaacacgg	W20922
119152	caccagccaaacacgggctctcagg	W20922
119153	ggctctcaggtcctcagaatcaggg	W20922
119154	caggtcctcagaatcagggatgtga	W20922
119155	agaccctgggctgtacctctgtcat	W20937
119156	ctgtcatctgttctgacaaaacagg	W20937
119157	gagttctccatcactggctctactt	W20937
119158	gttctccatcactggctctacttat	W20937
119159	tccatcactggctctacttatgctc	W20937
119160	tcactggctctacttatgctcctga	W20937
119161	actggctctacttatgctcctgagg	W20937
119162	gaatgataagccagtccgagcaggg	W20937
119163	atgataagccagtccgagcagggca	W20937
119164	taagccagtccgagcagggcagtat	W20937
119165	agccagtccgagcagggcagtatga	W20937
119166	ccagtccgagcagggcagtatgatg	W20937
119167	ccaaccagatgtcagtttgcaagat	W20937
119168	tgttcatcattgacaaggtggatgg	W20937
119169	gatgtctgctcactgaacgagttct	W20937
119170	tctgctcactgaacgagttctccat	W20937
119171	tgctcactgaacgagttctccatca	W20937
119172	ctcactgaacgagttctccatcact	W20937
119173	cactgaacgagttctccatcactgg	W20937
119174	gaacgagttctccatcactggctct	W20937
119175	tttgagctggtcctgcgacaatttc	W30383
119176	agctggtcctgcgacaatttcggtc	W30383
119177	cacattggctatgcatggaacccta	W30383
119178	atgcatggaaccctactcatgagca	W30383
119179	atggaaccctactcatgagcaacaa	W30383
119180	ggaaccctactcatgagcaacaaat	W30383
119181	aaccctactcatgagcaacaaatct	W30383
119182	atgagcaacaaatcttctcgtacgc	W30383
119183	gagcaacaaatcttctcgtacgcaa	W30383
119184	caaatcttctcgtacgcaattctgg	W30383
119185	aatcttctcgtacgcaattctggat	W30383
119186	tcttctcgtacgcaattctggattt	W30383
119187	ggtcctgcgacaatttcggtcgatg	W30383
119188	ttctcgtacgcaattctggatttgc	W30383
119189	gcgacaatttcggtcgatggctctg	W30383
119190	gacaatttcggtcgatggctctggg	W30383
119191	caatttcggtcgatggctctggggc	W30383
119192	tattgggagtctcacattggctatg	W30383
119193	gagtctcacattggctatgcatgga	W30383
119194	gtctcacattggctatgcatggaac	W30383
119195	ctcacattggctatgcatggaaccc	W30383
119196	accatgaactcgtcttctgagcatt	M55219
119197	aactcgtcttctgagcattgcaaca	M55219
119198	gggctccacaacagagatctgcaga	M55219
119199	agcaaactgtacccttggctgtgct	M55219
119200	ataactccagacttaatgggtgtgc	M55219
119201	tgccttgatttggttttgaaagcac	M55219
119202	ctgtagacttctctgctgtacctca	M55219
119203	acttctctgctgtacctcactaaga	M55219
119204	ctgctgtacctcactaagactagct	M55219
119205	tacctcactaagactagctagtgct	M55219
119206	ttttaactctaaacccagatgagca	M55219
119207	ctctaaacccagatgagcaaaatat	M55219
119208	atatctgactggctgagactagagg	M55219

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34001	ctgctgttcaaacacaaggagcagc	AA000434	76605	ctgtgctttcctcacaggacaaatt	Z54200	119209	gctttctcaatcaccacatctctca	M55219
34002	caaacacaaggagcagctcaaagct	AA000434	76606	tcacacatagtgggtttggccagtt	Z54200	119210	atcgcaatagtgtcacagagtctgc	M55219
34003	ctcaaagctgagatcctgagaaaga	AA000434	76607	cacatagtgggtttggccagttcat	Z54200	119211	atagtgtcacagagtctgcagctga	M55219
34004	aagagagcgctcctggacaaagagt	AA000434	76608	ttggccagttcatgttttgtctaac	Z54200	119212	agtctgcagctgaggaaagagtgtt	M55219
34005	gagagcgctcctggacaaagagttg	AA000434	76609	taaatactaagctcttggttaaatg	Z54200	119213	gagtgtttcaaccctttcgtctatg	M55219
34006	agagcgctcctggacaaagagttgc	AA000434	76610	atgataaagccttgactatgcatgc	Z54200	119214	cctttcgtctatgggctccacaaca	M55219
34007	agcgctcctggacaaagagttgcag	AA000434	76611	aagccttgactatgcatgctgcttt	Z54200	119215	gtctatgggctccacaacagagatc	M55219
34008	gttgcagatccaagtgcaggaagag	AA000434	76612	ccttgactatgcatgctgcttttat	Z54200	119216	ttcggatccatgcaagcaatgcagc	AA162371
34009	ttgcagatccaagtgcaggaagagc	AA000434	76613	ctgatttcttcacacagacagctgg	Z54200	119217	ggatccatgcaagcaatgcagcccg	AA162371
34010	attgtctgtaaccaggtgatgaagt	AA000434	76614	tcttcacacagacagctggctttgt	Z54200	119218	ctccttctagcaagtgaagattctc	AA162371
34011	tgtctgtaaccaggtgatgaagtat	AA000434	76615	acttgtcactagcctggtgctgatg	Z54200	119219	gaagattctctgagggcgagagtcg	AA162371
34012	agcaagctctctgctctgctgttca	AA000434	76616	tgtcactagcctggtgctgatgtcg	Z54200	119220	gattctctgagggcgagagtcgacg	AA162371
34013	caagctctctgctctgctgttcaaa	AA000434	76617	ggaaggacccttttctgttgtgatca	Z54200	119221	gaactcattattgctcatggacggg	AA162371
34014	aagctctctgctctgctgttcaaac	AA000434	76618	acccttttctgttgtgatcataggac	Z54200	119222	attgctcatggacgggaaaatggag	AA162371
34015	gctctctgctctgctgttcaaacac	AA000434	76619	ataggaccacttttcaatctgtgct	Z54200	119223	ttggacctcggattattagactctt	AA162371
34016	ctctctgctctgctgttcaaacaca	AA000434	76620	ccacttttcaatctgtgctttcctc	Z54200	119224	ttagactcttcagaaaaggtacagg	AA162371
34017	tctgctctgctgttcaaacacaagg	AA000434	76621	ttcaatctgtgctttcctcacagga	Z54200	119225	aacagaaagcgccatggctctagta	AA162371
34018	ccctatcatcgtctcctgcggatgg		76622	aatctgtgctttcctcacaggacaa	Z54200	119226	aagcgccatggctctagtagaagtg	AA162371
34019	ctcctgcggatgggacaagctggtc		76623	cctgtgcctgtgagtccatactgaa	U35035	119227	cgccatggctctagtagaagtgtag	AA162371
34020	caatgccttgtgcttcagccccaac		76624	gtgcctgtgagtccatactgaaatt	U35035	119228	tccatgcaagcaatgcagcccgcat	AA162371
34021	tggccccagcatcaagatctgggac		76625	gtctggttttgctgctttagcaagg	U35035	119229	atgcaagcaatgcagcccgcatttg	AA162371
34022	agaagttatcagcaccagcagcaag		76626	ttttgctgctttagcaagggaacct	U35035	119230	cagcccgcatttgcaagtaaaatca	AA162371
34023	caccagcagcaaggcagagccaccc		76627	ctgcaggtctccccagctgtcctgg	U35035	119231	gagttatccccagctcagctgcttc	AA162371
34024	tttggcatggtctgctgatggccag		76628	gacacatgcttgtgtctgctgggag	U35035	119232	ccagctcagctgcttctccttctag	AA162371
34025	atggtctgctgatggccagactctg		76629	ttgtgtctgctgggagtgtgttatg	U35035	119233	gctcagctgcttctccttctagcaa	AA162371
34026	tgctgatggccagactctgtttgct		76630	tgtctgctgggagtgtgttatgatg	U35035	119234	ctgcttctccttctagcaagtgaag	AA162371
34027	gactctgtttgctggctatacagac		76631	tttcagagcaagggtgtttgcacag	U35035	119235	cttctccttctagcaagtgaagatt	AA162371
34028	tggctatacagacaacttggtgcga		76632	tccagttaattctttacccagtcag	U35035	119236	aggagaccaacgagctcatgctctc	L15447
34029	tacagacaacttggtgcgagtatgg		76633	acccagtcagttctttactctgaga	U35035	119237	agaccaacgagctcatgctctccat	L15447
34030	cattggccacactggctacctgaac		76634	tcagttctttactctgagagatttt	U35035	119238	tggttgccacacagcattgtaccca	L15447
34031	ccacactggctacctgaacacagtg		76635	agggtctgctgcaggccctgaccag	U35035	119239	ttgccacacagcattgtacccagag	L15447
34032	tggctacctgaacacagtgactgtc		76636	tcatctaagaactctggtggcctgg	U35035	119240	ccacacagcattgtacccagagtct	L15447
34033	cacagtgactgtctctccagatgga		76637	aactctggtggcctggcacttccca	U35035	119241	agcattgtacccagagtctgtcccc	L15447
34034	gactgtctctccagatggatccctc		76638	acccaatgcacagttcttagtgtct	U35035	119242	attgtacccagagtctgtccccaga	L15447
34035	agatggatccctctgtgcttctgga		76639	caatgcacagttcttagtgtctggg	U35035	119243	gtacccagagtctgtccccagacat	L15447
34036	tatgctgtgggatctcaatgaaggc		76640	acagttcttagtgtctgggaatgcc	U35035	119244	agagtctgtccccagacattgcacc	L15447
34037	tgaaggcaagcacctctacacttta		76641	gagttagtctggttttgctgcttta	U35035	119245	tgtccccagacattgcacctggcgc	L15447
34038	atactctgggtgtctgcaagtacac		76642	ttagtctggttttgctgctttagca	U35035	119246	cagacattgcacctggcgctgttag	L15447
34039	tactctgggtgtctgcaagtacacg		76643	cccaagccatagctgacatggccgc	L11613	119247	acattgcacctggcgctgttagatt	L15447
34040	gctgccactggccccagcatcaaga		76644	ctgacatggccgcctaccagctgga	L11613	119248	ccaacgagctcatgctctccatgct	L15447
34041	ccactggccccagcatcaagatctg		76645	ggttctggaagctcctacatttacg	L11613	119249	tcatgctctccatgctcttcaacca	L15447
34042	cactggccccagcatcaagatctgg		76646	tcctacatttacggttatgtggacg	L11613	119250	tgctctccatgctcttcaaccagtt	L15447
34043	atactctgggtgtctgcaagtacac		76647	tataagccaggcatgacccctgagg	L11613	119251	tgaagatctcttttgccaagaagta	L15447
34044	tactctgggtgtctgcaagtacacg		76648	actctggccatgaaccgagatggct	L11613	119252	tctcttttgccaagaagtagcgcct	L15447
34045	gcagagccaccccagtgtacctctt		76649	gtcatctacctggtcaccatcacag	L11613	119253	agaagtagcgcctttccctatggag	L15447
34046	agagccaccccagtgtacctctttg		76650	gtcaccatcacagctgctggtgtgg	L11613	119254	ccttggctcagtccctgaaggtaag	L15447
34047	ccttgtgcttcagccccaaccgcta		76651	atcacagctgctggtgtggaccatc	L11613	119255	cttagggaccttctcagagccgtgt	L15447
34048	cttgtgcttcagccccaaccgctac		76652	gagctgccaaaattctacgatgagt	L11613	119256	agattctcgctctgctcattcacac	X72230
34049	gctgccactggccccagcatcaaga		76653	tgactgatccccagaagtcccttcc	L11613	119257	tcgctctgctcattcacacacgtaa	X72230
34050	ccactggccccagcatcaagatctg		76654	accagaaggctggtgcgatgggcaa	L11613	119258	aattctgattcttatgtcaagcaaa	X72230
34051	cactggccccagcatcaagatctgg		76655	tggccgcctaccagctggagctaca	L11613	119259	tacctaattccaagactatactggg	X72230
34052	ctggccccagcatcaagatctggga		76656	cctaccagctggagctacacgggtt	L11613	119260	cagagttatttcccaatccaggatt	X72230
34053	agcaaggcagagccaccccagtgta		76657	agctggagctacacgggttggagct	L11613	119261	tatttcccaatccaggattcaatat	X72230
34054	aaggcagagccaccccagtgtacct		76658	ttctggctgctgcaaacgtggtgaa	L11613	119262	tgtgctacacacaaagtgaaatttg	X72230
34055	agcctagaggaccccactgtccaat	D29801	76659	ctgctgcaaacgtggtgaagaacat	L11613	119263	aaatttgcatgttgagccttattaa	X72230
34056	actttattgtcccagatcttgagaa	D29801	76660	atgctaattcgacagcccttacca	L11613	119264	cttaattatggtacctcgatctata	X72230
34057	catggtccacatatcctcttcctgc	D29801	76661	attcgacagcccttaccatcggcg	L11613	119265	tatggtacctcgatctataggaccc	X72230
34058	ttcctgcctatcactggttccttgg	D29801	76662	cagcccttaccatcggcggttctg	L11613	119266	atctataggacccaatttagcagtc	X72230
34059	tccttggtaactatcttcatggcta	D29801	76663	tgctcctttgaagccaacgtgcctc	D87117	119267	tataggacccaatttagcagtccgt	X72230
34060	gtaactatcttcatggctaccttaa	D29801	76664	ttgcttggccctcaactgggttagg	D87117	119268	tggttctgcccattgtgaaacatat	X72230
34061	atggcccagcagttaggagcaacgg	D29801	76665	ttcacaggtatcctaccagcataat	D87117	119269	aacatattcatcagtgagtcagaga	X72230
34062	gcaacggctactcctccagagaacc	D29801	76666	acaggtatcctaccagcataatgag	D87117	119270	ttgctgcaatgtctgtccccaaaca	X72230
34063	cttggttcagcccacagctgtctgt	D29801	76667	ctgtgactcgtggggcccagagtta	D87117	119271	caatgtctgtccccaaacatagtgg	X72230
34064	cagttccaggacacctgacactttc	D29801	76668	tgactcgtggggcccagagttagaa	D87117	119272	atacacaccaaacagcttttcactt	X72230
34065	acctgacactttcacacatacagta	D29801	76669	cagctttctcttgggcagtacactg	D87117	119273	cagcttttcacttcttaaggacaat	X72230
34066	cactttcacacatacagtaggcaaa	D29801	76670	tctcttgggcagtacactggattga	D87117	119274	ttcacttcttaaggacaatgttcaa	X72230
34067	ttgtcccagatcttgagaagtgttc	D29801	76671	agtgttgattctctgatggtaactg	D87117	119275	tgttcaaattctgattcttatgtca	X72230
34068	ggctctaggctccaggcacttactg	D29801	76672	gattctctgatggtaactgacagca	D87117	119276	accagattgctactcgtctgcggta	W30432

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34069	aggctccaggcacttactgcccatg	D29801	76673	gtaactgacagcagtggacagtgct	D87117	119277	agattgctactcgtctgcggtatgg	W30432
34070	cttactgcccatggtgacaactata	D29801	76674	gtgttccttccaaggagacatatat	D87117	119278	tcatgtacctggtgacagacctgct	W30432
34071	gctgtctgcccaccttggtgaaaag	D29801	76675	ggttaggaccatcgcaggtgatgca	D87117	119279	tgacagacctgctgtggtacacccc	W30432
34072	gctttcaggacctcagccagttgat	D29801	76676	catcgcaggtgatgcagggttgaca	D87117	119280	cgctcatccatgtgattctacttca	W30432
34073	aggacctcagccagttgatgagcag	D29801	76677	gacactttaaagcactaccagccac	D87117	119281	tcatccatgtgattctacttcacaa	W30432
34074	ggcaagacatcagccacacatggtc	D29801	76678	actttaaagcactaccagccacatt	D87117	119282	tccatgtgattctacttcacaaatc	W30432
34075	tggtagcagcctgagcttctctgcc	U27323	76679	cactaccagccacattcaggaactc	D87117	119283	atgtgattctacttcacaaatcatt	W30432
34076	ccctttgtcgcagagcagtaagcaa	U27323	76680	taccagccacattcaggaactctgt	D87117	119284	tgattctacttcacaaatcattctc	W30432
34077	tcaggactgtctgccaagctgacaa	U27323	76681	cagccacattcaggaactctgttca	D87117	119285	ttctacttcacaaatcattctcaga	W30432
34078	gccaagctgacaagcacagcacaga	U27323	76682	cattcaggaactctgttcacaggta	D87117	119286	tacttcacaaatcattctcagagct	W30432
34079	ctgacaagcacagcacagactggag	U27323	76683	cagcagtgtggcctgatgttatcaa	AA086679	119287	ttcacaaatcattctcagagctcct	W30432
34080	agcacagcacagactggagtctgca	U27323	76684	atgttatcaagctgccctacttcaa	AA086679	119288	ttgctactcgtctgcggtatggtga	W30432
34081	gtctgcaacaccgtgttagctgctc	U27323	76685	tgctgacactggatcctagcaagag	AA086679	119289	ctactcgtctgcggtatggtgagca	W30432
34082	gctgctctcactgagcatcccatga	U27323	76686	tgacactggatcctagcaagaggtg	AA086679	119290	atggtgagcacctgaacttgatcaa	W30432
34083	gaccctggcctgtcacaggagagaa	U27323	76687	cactggatcctagcaagaggtgcac	AA086679	119291	agcacctgaacttgatcaacctgaa	W30432
34084	tgctgctggccaaataccaaagata	U27323	76688	cagctgaacagaccctacagagtga	AA086679	119292	acctgaacttgatcaacctgaaaga	W30432
34085	tggccaaataccaaagataggctgc	U27323	76689	aacagaccctacagagtgactttct	AA086679	119293	tgaacttgatcaacctgaaagatgc	W30432
34086	atactgccattctaggtagagtttt	U27323	76690	tcagcaaaatggcacctccagacct	AA086679	119294	acttgatcaacctgaaagatgccta	W30432
34087	tccattccttggacctgtctcctac	U27323	76691	ctccagacctacctcactggcagga	AA086679	119295	acctcatgtacctggtgacagacct	W30432
34088	cactcccaggttggagcctaggcac	U27323	76692	acctacctcactggcaggattgcat	AA086679	119296	ccttctgaggtagcctggagagagc	M84746
34089	taggcaccctgccgttacactcttc	U27323	76693	tacctcactggcaggattgcatgaa	AA086679	119297	tgttttctctctgctctgaggtcca	M84746
34090	ccctgccgttacactcttctgttct	U27323	76694	ctcactggcaggattgcatgaattg	AA086679	119298	cactggcctaacagaagtcctcttg	M84746
34091	actcttctgttctgtaagagtcctt	U27323	76695	agctgccctacttcaacaccatgaa	AA086679	119299	cctaacagaagtcctcttgctcctt	M84746
34092	tgtaagagtccttccctgtcaggac	U27323	76696	tgccctacttcaacaccatgaaacc	AA086679	119300	cctcttgctccttgaagggctctta	M84746
34093	agtccttccctgtcaggactgtctg	U27323	76697	aattctctttcattccttcagcggc	AA086679	119301	gaggactatttccaagcctgtgaca	M84746
34094	tccctgtcaggactgtctgccaagc	U27323	76698	tctctttcattccttcagcggcact	AA086679	119302	tatttccaagcctgtgacaccgtgc	M84746
34095	gggctctgtcagctccctaaactcc	D14888	76699	cttcagcggcacttgatctattgga	AA086679	119303	tgtgacaccgtgcaagagacggtcg	M84746
34096	ctcctccagctccggggatcaagat	D14888	76700	tattggaccacatgctgacactgga	AA086679	119304	gaactactgcgcagggtccatggag	M84746
34097	cggcatctcggtagccacagccacg	D14888	76701	tggaccacatgctgacactggatcc	AA086679	119305	aggaactgcatgcagcattgtgagc	M84746
34098	ggtagccacagccacgtactgcgaa	D14888	76702	accacatgctgacactggatcctag	AA086679	119306	tgcatgcagcattgtgagctcagag	M84746
34099	agccacagccacgtactgcgaaggg	D14888	76703	gtgcaacctgggtgccatgtacaac	D29765	119307	tgtgagctcagagctggtgtcctgg	M84746
34100	agccacgtactgcgaagggagagcc	D14888	76704	tgccatgtacaacctctatgacatg	D29765	119308	aggtccatgggctggaatggagaca	M84746
34101	cagaggcacagccctaacttgaatt	D14888	76705	gacagtgctcttcaccatgtgttcc	D29765	119309	gtttgtttccagccctgcttcacat	M84746
34102	aggcacagccctaacttgaatttct	D14888	76706	gctcttcaccatgtgttccctgcct	D29765	119310	ccctgcttcacattccctctgagtg	M84746
34103	ttgaatttcttaccacaaaagcact	D14888	76707	agtggacccctggatcttcatcatc	D29765	119311	ttcacattccctctgagtgtcctct	M84746
34104	ttttgacatgacagtccctactcag	D14888	76708	cccctggatcttcatcatcttcagg	D29765	119312	gtcctctgcgtactgagactagatg	M84746
34105	tgacatgacagtccctactcagagt	D14888	76709	catcatcttcaggacttcagtattc	D29765	119313	gctacccaatgacgggacaggttgt	M84746
34106	agtccctactcagagtactgaagag	D14888	76710	cacaagacctctgatctacagaaac	D29765	119314	aggttgtgtctcatactcttgcatg	M84746
34107	ctccagctccgggggatcaagattac	D14888	76711	acctctgatctacagaaactggagc	D29765	119315	ccacgtttgtgcagatttggagcca	M84746
34108	accaccaatgcaagaagggcactgg	D14888	76712	gctttgcgtgttctgataagctgaa	D29765	119316	tgaatggtctggtctctgtgagaaa	M69109
34109	gcactggaggcgagcagcagaactg	D14888	76713	agcacacattcaaagagccgtgctt	D29765	119317	agttccacctcgcaatagtagatac	M69109
34110	agaactgagccgaggtgccagcgcc	D14888	76714	aactatctcccatgaagagatggag	D29765	119318	acttctatcagggcacagaaaacac	M69109
34111	cccatgtggagctctgcagtatgga	D14888	76715	gtacaacctctatgacatgcacagg	D29765	119319	acaccttcatcctgtcatagctcat	M69109
34112	atgtggagctctgcagtatggacat	D14888	76716	cctctatgacatgcacaggcgccag	D29765	119320	ccttcatcctgtcatagctcattaa	M69109
34113	ccatcatcactgcggcatctcggta	D14888	76717	tgacatgcacaggcgccagaggcac	D29765	119321	ttaaatcagatccaccaagtaagac	M69109
34114	ctgcggcatctcggtagccacagcc	D14888	76718	cctgcatcctttggaggagctggac	D29765	119322	aatcagatccaccaagtaagactat	M69109
34115	gtggcttctctgccccagcaggacc	U43525	76719	ccactttgtgctgctggctctcatg	D29765	119323	atccaccaagtaagactatagaata	M69109
34116	ctgccccagcaggaccagactctgt	U43525	76720	tgtgctgctggctctcatgacagtg	D29765	119324	aatttgcctgttgtatattatgtag	M69109
34117	attcttcatggagtggactccttcg	U43525	76721	gctggctctcatgacagtgctcttc	D29765	119325	ttcaaaaatcatctgtgcattccct	M69109
34118	tccttcgtgatccgcgaatgcgcct	U43525	76722	tctcatgacagtgctcttcaccatg	D29765	119326	catctgtgcattccctgtaggaaaa	M69109
34119	gcccgggtgtccatgtatgtggact	U43525	76723	atggccatttctcattcgcactgaa	X93357	119327	tgcattccctgtaggaaaataatca	M69109
34120	gtgtccatgtatgtggactggattc	U43525	76724	tctcattcgcactgaaagccgagag	X93357	119328	agaagcccactgatggcgacaagtc	M69109
34121	ggtgcccttctgcgctccaggcagc	U43525	76725	gtgccacttctaactgaaaacagaa	X93357	119329	aagagccctcaaatgtggaaagcag	M69109
34122	cgctccaggcagcctaaagctgggg	U43525	76726	tactgttgtcaacatactgtaatca	X93357	119330	gtacgaatcccatgactttcctaag	M69109
34123	cctaaagctggggcgaccagcaggc	U43525	76727	tgtcaacatactgtaatcagaggag	X93357	119331	aagctcttctgagttggccttagtg	M69109
34124	cagctctgttccctattccatatga	U43525	76728	gtttcaatgtgtctggatgagagtg	X93357	119332	ttctgagttggccttagtgtagcaa	M69109
34125	ctctgttccctattccatatgacct	U43525	76729	tggacagccttcttgtgactgagat	X93357	119333	tgagttggccttagtgtagcaagct	M69109
34126	tgttccctattccatatgacctcaa	U43525	76730	ttgtaagttctgtgccaggttctcc	X93357	119334	gtagcaagctccacttctatcaggg	M69109
34127	acgccccgtgtgctgcaggaactga	U43525	76731	taagttctgtgccaggttctccacc	X93357	119335	agctccacttctatcagggcacaga	M69109
34128	gtcaccttcctatgccgggaacaca	U43525	76732	tgccaggttctccaccactgtgtac	X93357	119336	ggttctaaccatggctgcgagcgcc	AA027408
34129	tgccgggaacacaacgtgtgcacgc	U43525	76733	caggttctccaccactgtgtacttt	X93357	119337	gttctaaccatggctgcgagcgcca	AA027408
34130	ggcggccccttgatctgcaatggca	U43525	76734	ctccaccactgtgtactttattgct	X93357	119338	cgtgctgacggtggactctgaaccg	AA027408
34131	cccttgatctgcaatggcattcttc	U43525	76735	tttaagcacgacatacttaatcatt	X93357	119339	tgctgacggtggactctgaaccggc	AA027408
34132	ttgatctgcaatggcattcttcatg	U43525	76736	aagcacgacatacttaatcattatt	X93357	119340	gctggacaaacccgagaccgacctg	AA027408
34133	atctgcaatggcattcttcatggag	U43525	76737	agatttctaaacacatctatttaag	X93357	119341	tggacaaacccgagaccgacctgct	AA027408
34134	ggcattcttcatggagtggactcct	U43525	76738	aacacatctatttaagcatacttta	X93357	119342	gacaaacccgagaccgacctgctca	AA027408
34135	ccattcactgtgaagatcagtggcg	AA000574	76739	aagttgctgtatcctcacagttgtc	X93357	119343	acctggatcgctgcgtggccttcat	AA027408
34136	atctgtgacctgaacctgaagatcc	AA000574	76740	cacagttgtctgcatccagggaata	X93357	119344	cctggatcgctgcgtggccttcatc	AA027408

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34137	ccctctggccatgtcactgaggcag	AA000574	76741	agttgtctgcatccagggaatatga	X93357	119345	ctggatcgctgcgtggccttcatcg	AA027408
34138	ggccatgtcactgaggcagagattg	AA000574	76742	tttgtgccacttctaactgaaaaca	X93357	119346	gatcgctgcgtggccttcatcggcc	AA027408
34139	catgtcactgaggcagagattgtgc	AA000574	76743	tctcttactggcagaatatttcttt	U29086	119347	atcgctgcgtggccttcatcggcca	AA027408
34140	gagattgtgcccatgggaaagaact	AA000574	76744	gacatgcacacagcatacttcaatg	U29086	119348	tctaaccatggctgcgagcgccagg	AA027408
34141	aactctcactgtgtcagatttgtgc	AA000574	76745	agctatgcaattttctgtttattag	U29086	119349	ctaaccatggctgcgagcgccaggc	AA027408
34142	tctcactgtgtcagatttgtgcgcc	AA000574	76746	tggtaacaactattcctcttcaagc	U29086	119350	ccatggctgcgagcgccaggctccg	AA027408
34143	gtcagatttgtgcgccaggagatgg	AA000574	76747	taacaactattcctcttcaagcatt	U29086	119351	cgagcgccaggctccgactgccagt	AA027408
34144	atgggcgttcacactgtcagcgtaa	AA000574	76748	caactattcctcttcaagcattttc	U29086	119352	cgccagctcggcagggcacgccgtg	AA027408
34145	ggcgttcacactgtcagcgtaaagt	AA000574	76749	ctattcctcttcaagcattttcaga	U29086	119353	cgggcatcaccgccgtgctgacggt	AA027408
34146	gttcacactgtcagcgtaaagtacc	AA000574	76750	ttcctcttcaagcattttcagagga	U29086	119354	caccgccgtgctgacggtggactct	AA027408
34147	tgtgacctgaacctgaagatcccgg	AA000574	76751	ctcttcaagcattttcagaggagga	U29086	119355	ccgtgctgacggtggactctgaacc	AA027408
34148	gacctgaacctgaagatcccggaga	AA000574	76752	ttcaagcattttcagaggaggaaac	U29086	119356	aagcgagacctgctcttccaagccc	W30499
34149	aacctgaagatcccggagatcaaca	AA000574	76753	ttttctgtacaggtttgttacagtg	U29086	119357	tgctcttccaagccctgggccggac	W30499
34150	aagatcccggagatcaacagcagta	AA000574	76754	taattgtgttttccatcctacagtt	U29086	119358	caagattgacgtccctgccaacaga	W30499
34151	atcaacagcagtagcatgtctgccc	AA000574	76755	atgcacacagcatacttcaatgtct	U29086	119359	attgacgtccctgccaacagatacg	W30499
34152	agcagtagcatgtctgcccatgtca	AA000574	76756	cacacagcatacttcaatgtctatt	U29086	119360	tgacgtccctgccaacagatacgac	W30499
34153	agcatgtctgcccatgtcaccagcc	AA000574	76757	acagcatacttcaatgtctatttca	U29086	119361	acgtccctgccaacagatacgacct	W30499
34154	agcccctctggccatgtcactgagg	AA000574	76758	gcatacttcaatgtctatttcagtt	U29086	119362	ctgccaacagatacgacctcctgtg	W30499
34155	ccatgccctgcaataccatagcatt	D31952	76759	tacttcaatgtctatttcagttgta	U29086	119363	caacagatacgacctcctgtgtctg	W30499
34156	cctgcaataccatagcattgtgacc	D31952	76760	gtctatttcagttgtacagttatga	U29086	119364	acagatacgacctcctgtgtctgga	W30499
34157	catccacatgttcttacttgcccgc	D31952	76761	gattcatatatgtatctctgaaatt	U29086	119365	aaggatcaaagctccggtatataag	W30499
34158	ctcccatgctaggaagatctctacc	D31952	76762	atgcacaacggtatcaaaagctatg	U29086	119366	ggatcaaagctccggtatataagcg	W30499
34159	aaccatccttcttggagtcttcatc	D31952	76763	cgcctgatttctgttgtcctcgcag	AA086733	119367	caaagctccggtatataagcgagtg	W30499
34160	ccttcttggagtcttcatcttctgt	D31952	76764	ctgatttctgttgtcctcgcagtct	AA086733	119368	agccctgggccggacctacactgat	W30499
34161	tgtgctccatgttctcttaatgacc	D31952	76765	gtctaccgacacgtcatgatggaga	AA086733	119369	gggccggacctacactgatgaagag	W30499
34162	ccatgttctcttaatgaccttctgc	D31952	76766	aatgtagtctcactgggacttccag	AA086733	119370	gccggacctacactgatgaagagtt	W30499
34163	taacccttactgtgtttgctacatg	D31952	76767	gtagtctcactgggacttccaggat	AA086733	119371	cggacctacactgatgaagagtttg	W30499
34164	cttccaggtcaatggcatgttgatc	D31952	76768	tcactgggacttccaggatctaagc	AA086733	119372	tgaatttggtctggaacttgatgaa	W30499
34165	atatgcctttcggagcccagagctc	D31952	76769	ctgggacttccaggatctaagcctg	AA086733	119373	aaggcacaggggcctcagatgttg	W30499
34166	ctttcggagcccagagctcagagat	D31952	76770	ccaggatctaagcctgttgtgatct	AA086733	119374	tttacaagattgacgtccctgccaa	W30499
34167	ataccatagcattgtgaccatgcgc	D31952	76771	ggatctaagcctgttgtgatctccc	AA086733	119375	tacaagattgacgtccctgccaaca	W30499
34168	gaccaaataacacatcagtctgaca	D31952	76772	tctaagcctgttgtgatctcccagc	AA086733	119376	agctcactagtgaacgcgacactct	M61705
34169	tgtgaccatgcgccgcaccatcatc	D31952	76773	cctgttgtgatctcccagctggagc	AA086733	119377	ctagtgaacgcgacactctgaccat	M61705
34170	catcatcaccctaacaattatctgg	D31952	76774	gttgtgatctcccagctggagcgag	AA086733	119378	cgtaccgcaggcaggctgctgtgcc	M61705
34171	tatctggatgttctgcacagggagc	D31952	76775	gttgtcctcgcagtcttgagatacc	AA086733	119379	gtggcccgcaggcgcacttggtgca	M61705
34172	cggcatcaccatggtgatcttctcc	D31952	76776	gtcctcgcagtcttgagataccaag	AA086733	119380	actacatcgcgcacgtcatggcctc	M61705
34173	cttcacatcgctgttccctttgatg	D31952	76777	gctgccagcagcaccacaggccaaa	AA086733	119381	tcgcgcacgtcatggcctctgcagg	M61705
34174	ttttatcctgtgtctctacatccac	D31952	76778	agcagcaccacaggccaaagtgacc	AA086733	119382	cccctgcagatgaaagccagaccac	M61705
34175	tctctacatccacatgttcttactt	D31952	76779	agcaccacaggccaaagtgaccttt	AA086733	119383	ccccggtccataacagcgccagaag	M61705
34176	atttcagagcagaccggcaaagaac	AA000410	76780	ggctgttctgctgtctcaggaggag	AA086733	119384	tccataacagcgccagaagcctggg	M61705
34177	tttcagagcagaccggcaaagaact	AA000410	76781	tgttctgctgtctcaggaggagtgg	AA086733	119385	acagcgccagaagcctgggcccagc	M61705
34178	acaagtacatctgcaccacctcggc	AA000410	76782	ggcgtctaccgacacgtcatgatgg	AA086733	119386	tgctgatgctactactaggggctcc	M61705
34179	aagtacatctgcaccacctcggcca	AA000410	76783	catggtcaattccacacggttcttc	AA086745	119387	tgctactactaggggctcctgcgga	M61705
34180	tcggccatccagaaccggttcaagt	AA000410	76784	tggtcaattccacacggttcttcga	AA086745	119388	aacgcgacactctgaccatagtcac	M61705
34181	gccatccagaaccggttcaagtacg	AA000410	76785	tgtgtcaacgtggttgctttatacg	AA086745	119389	acactctgaccatagtcactgctga	M61705
34182	gtgactcccgacacagactgggccc	AA000410	76786	tgtcaacgtggttgctttatacgcc	AA086745	119390	tgaccatagtcactgctgaccactc	M61705
34183	cccgacacagactgggcccatctga	AA000410	76787	gttgctttatacgccatcatggcac	AA086745	119391	cctttggtggctacacacttcgagg	M61705
34184	ccgacacagactgggcccatctgat	AA000410	76788	tgctttatacgccatcatggcactg	AA086745	119392	acacacttcgagggacctccatctt	M61705
34185	acagactgggcccatctgatgcagg	AA000410	76789	ttatacgccatcatggcactgactg	AA086745	119393	atgctctggacggcaagccctacac	M61705
34186	gaccacccgtggctgctcagccaga	AA000410	76790	atacgccatcatggcactgactgca	AA086745	119394	caggctatgtcggtacaggggaaag	M61705
34187	accacccgtggctgctcagccagag	AA000410	76791	catcatggcactgactgcaggtcga	AA086745	119395	acgtcaccgccgctgaaagcagtgg	M61705
34188	tcagagcagaccggcaaagaactcc	AA000410	76792	tcatggcactgactgcaggtcgatc	AA086745	119396	aatccacccaggggggcaatagccat	AA061624
34189	cagaccggcaaagaactcctgtaca	AA000410	76793	gaagttcaccccataggatacaagt	AA086745	119397	ccacccaggggggcaatagccatatt	AA061624
34190	gcaaagaactcctgtacaagtacat	AA000410	76794	ttcaccccataggatacaagtcctg	AA086745	119398	ccaccgcgtgacagactgtgttcgg	AA061624
34191	gaactcctgtacaagtacatctgca	AA000410	76795	gtcaattccacacggttcttcgaca	AA086745	119399	cgtgacagactgtgttcgggcagtg	AA061624
34192	ctcctgtacaagtacatctgcacca	AA000410	76796	caccccataggatacaagtcctggc	AA086745	119400	agactgtgttcgggcagtgtggcaa	AA061624
34193	tcctgtacaagtacatctgcaccac	AA000410	76797	caattccacacggttcttcgacata	AA086745	119401	ctgtgttcgggcagtgtggcaaaat	AA061624
34194	tgtacaagtacatctgcaccacctc	AA000410	76798	tccacacggttcttcgacataacgg	AA086745	119402	tgttcgggcagtgtggcaaaatgaa	AA061624
34195	tacaagtacatctgcaccacctcgg	AA000410	76799	agtattccaggattcatgtgtcaac	AA086745	119403	cttttaccgcagctacacgacccag	AA061624
34196	agaaggtctcggagtaggagtcgca	AA008683	76800	aggattcatgtgtcaacgtggttgc	AA086745	119404	ctacacgacccagctgaccatgaat	AA061624
34197	agtcgcagaagcagccgcagtagat	AA008683	76801	gattcatgtgtcaacgtggttgctt	AA086745	119405	cttccaagccattcacttcatgacc	AA061624
34198	cgctcccgatctaggtctcggagca	AA008683	76802	ttcatgtgtcaacgtggttgcttta	AA086745	119406	ccaagccattcacttcatgacctat	AA061624
34199	ctcccgatctaggtctcggagcaaa	AA008683	76803	catgtgtcaacgtggttgctttata	AA086745	119407	agccattcacttcatgacctatgag	AA061624
34200	ccgatctaggtctcggagcaaaggt	AA008683	76804	tctcaaagctccctgccatagcgga	D32200	119408	caatagccatattgccaatggtgca	AA061624
34201	cgatctaggtctcggagcaaaggtc	AA008683	76805	ctgccatagcggaggaccaccagaa	D32200	119409	tcacttcatgacctatgagttcctg	AA061624
34202	tctaggtctcggagcaaaggtcgat	AA008683	76806	tgagaagcctccagaactcactgca	D32200	119410	ccatattgccaatggtgcagccgga	AA061624
34203	cgatcccgctcaaaaggcaggaaat	AA008683	76807	gcctccagaactcactgcaaggact	D32200	119411	tgcagccggatgtgtggcgacatta	AA061624
34204	tcccgctcaaaaggcaggaaatcca	AA008683	76808	agaactcactgcaaggactctggcc	D32200	119412	tgtggcgacattacttcatgatgca	AA061624

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34205	agcaaatcgaagcccaagtctgacc	AA008683	76809	cactgcaaggactctggccagtacc	D32200	119413	acttcatgatgcagccatgaatcca	AA061624
34206	caaatcgaagcccaagtctgaccgg	AA008683	76810	aaggactctggccagtacccagtgg	D32200	119414	tcatgatgcagccatgaatccagcg	AA061624
34207	ttcccactcaagaagcaggtctaag	AA008683	76811	tgctccagcgcagggaaggcagcac	D32200	119415	gatgtacaactcgccgtaccaccgc	AA061624
34208	cagaagcagccgcagtagatctcga	AA008683	76812	gaggtctccttgagtcttccaccga	D32200	119416	gccgtaccaccgcgtgacagactgt	AA061624
34209	agatctcgaagtatctcaaaaagtc	AA008683	76813	ccaccgatgttgtggcaccacaacc	D32200	119417	atgatgtgcatctccaaactgccag	M25389
34210	tatctcaaaaagtcgctcccgatct	AA008683	76814	tggcaccacaacctgcatcaaactg	D32200	119418	tgcatctccaaactgccagctgtcc	M25389
34211	ctcaaaaagtcgctcccgatctagg	AA008683	76815	ctgcatcaaactgccaggccgagag	D32200	119419	cgttccagcaacaaccttggtccag	M25389
34212	tcaaaaagtcgctcccgatctaggt	AA008683	76816	aggaccaccagaagaatgctgggat	D32200	119420	agtcaatgtacttctgcagcactta	M25389
34213	aagtcgctcccgatctaggtctcgg	AA008683	76817	gtgcacgcatcaacgtgtcactgga	D32200	119421	tgtacttctgcagcacttaatactt	M25389
34214	agtcgctcccgatctaggtctcgga	AA008683	76818	gcatcaacgtgtcactggagcagct	D32200	119422	tctgcagcacttaatactttatgtg	M25389
34215	tcgctcccgatctaggtctcggagc	AA008683	76819	gacactactcacatcagatacggaa	D32200	119423	tgcttgatgactgtgtgtgtaaatt	M25389
34216	tatatcctcatgtaggatgtcgtcg	AA000605	76820	actcacatcagatacggaaacgaaa	D32200	119424	aatgtctctaatcacacatgttctt	M25389
34217	atgtaggatgtcgtcgtggacaatg	AA000605	76821	agaaggccgatatcctggagctgag	D32200	119425	tctaatcacacatgttcttgctata	M25389
34218	taaagctacgaactggtctgatgtg	AA000605	76822	ccgatatcctggagctgagtgttaa	D32200	119426	cacacatgttcttgctatacattta	M25389
34219	agctacgaactggtctgatgtgtca	AA000605	76823	agtacatgagaagcctccagaactc	D32200	119427	ttaccttgtacctctatgactcaag	M25389
34220	ctggtctgatgtgtcatggaggatg	AA000605	76824	gcctcatcttgaatatttcttcagg	U66827	119428	tgtacctctatgactcaagtttaac	M25389
34221	ggtgatctcttcttacatctgtctc	AA000605	76825	atatttcttcaggcgcagcccttcg	U66827	119429	atcctctctgtggcactgaaccact	M25389
34222	gatctcttcttacatctgtctcgtg	AA000605	76826	ccagaatcttctatagcagcaccgc	U66827	119430	tctgtggcactgaaccacttgagag	M25389
34223	ttacatctgtctcgtgagcgtgtgt	AA000605	76827	tcttctatagcagcaccgctcaacg	U66827	119431	gcactgaaccacttgagagctacac	M25389
34224	cgtgtgtacttcgaggatcgggctc	AA000605	76828	ctcaacgattcctcctgacacgata	U66827	119432	ggtagcaaccctcagatggacaaac	M25389
34225	cgggctcgcttctatggaggataaa	AA000605	76829	gattcctcctgacacgatactcaga	U66827	119433	tgcaacacggccacgtgtgccacac	M25389
34226	tcctgggactacgtggactccgaga	AA000605	76830	tcctgacacgatactcagattacct	U66827	119434	acgtgtgccacacaacgcctggcaa	M25389
34227	tgggactacgtggactccgagaaga	AA000605	76831	actcagattacctcaaacgcaacat	U66827	119435	gccacacaacgcctggcaaacttt	M25389
34228	aatgatgacttagcccgcacgctta	AA000605	76832	attacctcaaacgcaacatcagcaa	U66827	119436	ttggttcgttccagcaacaaccttg	M25389
34229	gtcctgcagtactataggcaactct	AA000605	76833	gcaacatcagcaacagatagtgggg	U66827	119437	cagacagaccaacgtcgcagagcca	W29150
34230	cagtactataggcaactcttcctta	AA000605	76834	ggaagccttccatgccacaggacag	U66827	119438	ctggaagtccagttctcccgcgttg	W29150
34231	caactcttccttacagcgctcaagg	AA000605	76835	cttccatgccacaggacagtgtcga	U66827	119439	gcctcgtgtactcctgcagcacatt	W29150
34232	ttccttacagcgctcaaggactcgt	AA000605	76836	ggcctctttacagcctgtactcagc	U66827	119440	gtatctccatgcagaaacaataact	W29150
34233	acagcgctcaaggactcgttctaaa	AA000605	76837	tttacagcctgtactcagcttccaa	U66827	119441	atctccatgcagaaacaataactga	W29150
34234	ctcaaggactcgttctaaagctacg	AA000605	76838	gaatcattattcaggtgctgacccc	U66827	119442	tctccatgcagaaacaataactgac	W29150
34235	ttctaaagctacgaactggtctgat	AA000605	76839	ttattcaggtgctgacccctattc	U66827	119443	caataactgacccaagagatatcct	W29150
34236	ccatctcagagctgactattcctag	U20371	76840	agatgaccaagaccgccgatgagtt	U66827	119444	taactgacccaagagatatccttac	W29150
34237	cagagctgactattcctagggtaga	U20371	76841	ctgaatcctgtggctgccttgctca	U66827	119445	aactgacccaagagatatccttact	W29150
34238	tgcactctgtgctcatcaactcaga	U20371	76842	cctgtggctgccttgctcatgaaat	U66827	119446	ctgacccaagagatatccttactgc	W29150
34239	ctgtgctcatcaactcagaactgag	U20371	76843	tcccttccagaatcttctatagcag	U66827	119447	tgacccaagagatatccttactgct	W29150
34240	tgctcatcaactcagaactgagctt	U20371	76844	cacacatctcctacaataggaagca	AA086698	119448	tgctaatggcatcgacatcgacagc	W29150
34241	actcagaactgagcttggaagcttc	U20371	76845	tctcctacaataggaagcaatgtgg	AA086698	119449	ggaagtccagttctcccgcgttgat	W29150
34242	aagcttctggcaatcttctaagagc	U20371	76846	gtactatactaacacagagtttgta	AA086698	119450	gaagtccagttctcccgcgttgatg	W29150
34243	gcaatcttctaagagccggagagtg	U20371	76847	tatactaacacagagtttgtaatag	AA086698	119451	agtccagttctcccgcgttgatgcc	W29150
34244	atcttctaagagccggagagtgatt	U20371	76848	aagagctctacaagatgctagccca	AA086698	119452	gtccagttctcccgcgttgatgcca	W29150
34245	tttaaaggctctatctgtttacagt	U20371	76849	tctacaagatgctagcccacgagga	AA086698	119453	ggcattctactagatcctggccacc	W29150
34246	aaaggctctatctgtttacagtgtt	U20371	76850	tacaagatgctagcccacgaggacc	AA086698	119454	cattctactagatcctggccaccga	W29150
34247	atgtatgcttcatacagggatggtg	U20371	76851	caagatgctagcccacgaggaccta	AA086698	119455	attctactagatcctggccaccgat	W29150
34248	tgactattcctagggtagaagacat	U20371	76852	agatgctagcccacgaggacctaag	AA086698	119456	tggcctcgtgtactcctgcagcaca	W29150
34249	acattgaaaactccagaggctgtgc	U20371	76853	atgctagcccacgaggacctaagaa	AA086698	119457	atccagtagacacaagcaagaagac	M31585
34250	ggcccctcaatctctacaggaaatg	U20371	76854	gcccacgaggacctaagaaaagctg	AA086698	119458	acattgtcccaactcttcttgatgt	M31585
34251	tcaatctctacaggaaatgcctgcg	U20371	76855	agctgggttgctgatttttgctaat	AA086698	119459	accagtcacataaacactatgtgga	M31585
34252	tttggcaaactcttcaccacattaa	U20371	76856	tacccgtttcctgatgtgggatatt	AA086698	119460	aacactatgtggactggcagtggtt	M31585
34253	ctcttcaccacattaaggaaacttg	U20371	76857	cgtttcctgatgtgggatattggtg	AA086698	119461	ttttgttcccaatgtcagccaccat	M31585
34254	ttcaccacattaaggaaacttggat	U20371	76858	tttcctgatgtgggatattggtggc	AA086698	119462	tcccaatgtcagccaccatgcctta	M31585
34255	ccagtgggtccttggcctttggctg	U20371	76859	ccaagaatcacttcgtccttcctgg	AA086698	119463	tgtcagccaccatgccttagcagct	M31585
34256	cacatgtctgggggcaaatacgtag	W13196	76860	gaatcacttcgtccttcctggaaca	AA086698	119464	ccaccatgccttagcagctgaacaa	M31585
34257	gtagactccgagggacatctctaca	W13196	76861	atcacttcgtccttcctggaacacg	AA086698	119465	tgccttagcagctgaacaatcgagc	M31585
34258	gtgtatgacgcgcacaccaaggaga	W13196	76862	acacgtactatactaacacagagtt	AA086698	119466	atcgagcctcatgctcatgaaatca	M31585
34259	gaccccaagcatctcaacgacgacg	W13196	76863	acgtactatactaacacagagtttg	AA086698	119467	cctcatgctcatgaaatcatggtcc	M31585
34260	cccaagcatctcaacgacgacgtgg	W13196	76864	ccacagccacaatggatcatcagtc	D32137	119468	gaaatcatggtcccaggcggctcca	M31585
34261	aagcatctcaacgacgaccgtggtca	W13196	76865	atcagtctgtaaccctacggagat	D32137	119469	tcccaactcttcttgatgtatttat	M31585
34262	ctcaacgacgacgtggtcaagattg	W13196	76866	ggcttcactcttactgataggaacc	D32137	119470	ttattgagtaccctgtatatagtag	M31585
34263	aacgacgacgtggtcaagattgact	W13196	76867	tcaattcaattgcccttctaacaaa	D32137	119471	agtaccctgtatatagtagatcagt	M31585
34264	gggacacacagtttcgacggcatct	W13196	76868	ctccattggtggcaaatccgaggga	D32137	119472	gaccctgctgcagatgctgtgagag	M31585
34265	cacagtttcgacggcatctggaagg	W13196	76869	cttgtcctttcttctatgtgataca	D32137	119473	atcacatgggtcgagggtttctcta	M31585
34266	agtttcgacggcatctggaaggcca	W13196	76870	ctttcttctatgtgatacaacagac	D32137	119474	ttctctactggtcaggatgcttttc	M31585
34267	ttcgacggcatctggaaggccagct	W13196	76871	tgatacaacagacgttacctcatgt	D32137	119475	gcttttctcatataagggtcgactt	M31585
34268	gactccgagggacatctctacactg	W13196	76872	cgttacctcatgttgccactcacaa	D32137	119476	tttttcaccagtcacataaacacta	M31585
34269	ggacatctctacactgttcccatcc	W13196	76873	ttgccactcacaaaccgttatgggg	D32137	119477	gggagaatctcatcctggctatgct	AA028288
34270	catctctacactgttcccatccggg	W13196	76874	ctggcaccaaagtcaccatggggca	D32137	119478	agaatctcatcctggctatgctcgg	AA028288
34271	cagggcaacatctacaagcccaaca	W13196	76875	tggggcaatctcctaatctcctttc	D32137	119479	gcgaccaagcaactacagcccgaat	AA028288
34272	aacatctacaagcccaacaacaagg	W13196	76876	cgactcttttctatctaaagactat	D32137	119480	accaagcaactacagcccgaatccg	AA028288

TABLE 1

SEQ ID NO	sequence	DBAxnID
34273	atctacaagcccaacaacaaggcca	W13196
34274	tacaagcccaacaacaaggccatgg	W13196
34275	cccaacaacaaggccatggcagacg	W13196
34276	gttgctgtggttcgaacagagcgga	U37799
34277	caagcccctgagcacgttctacacg	U37799
34278	cattcaggcctactctgagtccctg	U37799
34279	gtccctgatgtcaccagctgccaag	U37799
34280	agccaagctatagggtcctgaagac	U37799
34281	cccaaacctgatagcttggtcagac	U37799
34282	agcttggtcagaccagccacccagt	U37799
34283	gcttcttgaggactctctcagcgga	U37799
34284	acagcccaccagtgccatggcctga	U37799
34285	tgccatggcctgagcccccagatgt	U37799
34286	cagatgtcacacctgtccgcacgca	U37799
34287	catggatgcccacgcatgtgcaaaa	U37799
34288	cctgagcacgttctacacgcagctg	U37799
34289	gatgccccaggttcttcactacgcg	U37799
34290	ccaggttcttcactacgcgcagtat	U37799
34291	ctacgcgcagtatgtgctgctgggg	U37799
34292	cctgttgctggtgcccatcatctgc	U37799
34293	gctggtgcccatcatctgccaactg	U37799
34294	ccaactgcgcagccaggagaaatgc	U37799
34295	ggaggccattcaggcctactctgag	U37799
34296	gcccatcaatttaacatgttcccca	AA000751
34297	atttgattccgaatgccttggcctt	AA000751
34298	tggccttctttgattaagaagcctc	AA000751
34299	attaagaagcctcaagctttaatca	AA000751
34300	agaagcctcaagctttaatcaagag	AA000751
34301	aagcctcaagctttaatcaagaggg	AA000751
34302	aagtgcctaacaacaatgggcgacg	AA000751
34303	agtgcctaacaacaatgggcgacga	AA000751
34304	tgcctaacaacaatgggcgacgatt	AA000751
34305	ctaacaacaatgggcgacgattcaa	AA000751
34306	acaatgggcgacgattcaaggatta	AA000751
34307	caatgggcgacgattcaaggattaa	AA000751
34308	tttgattccgaatgccttggccttc	AA000751
34309	tgattccgaatgccttggccttctt	AA000751
34310	ttccgaatgccttggccttctttga	AA000751
34311	tccgaatgccttggccttctttgat	AA000751
34312	cgaatgccttggccttctttgatta	AA000751
34313	gaatgccttggccttctttgattaa	AA000751
34314	atgccttggccttctttgattaaga	AA000751
34315	tgccttggccttctttgattaagaa	AA000751
34316	cggtcactatcactgctgctgctac	X94353
34317	ctatcactgctgctgctactgggaa	X94353
34318	tcttttgacatcagctgtaacgagc	X94353
34319	atcagctgtaacgagcctggtgcac	X94353
34320	agctgtaacgagcctggtgcacagc	X94353
34321	tgtaacgagcctggtgcacagccct	X94353
34322	gagcctggtgcacagccctttcggt	X94353
34323	cctggtgcacagccctttcggttca	X94353
34324	ggtgcacagccctttcggttcaaga	X94353
34325	ttcaagaaaatttcccggctggctg	X94353
34326	aaacttgtacctcagccagagcagt	X94353
34327	cagccagagcagtaggcctgccttg	X94353
34328	tcactgctgctgctactgggaatgg	X94353
34329	gatgctgtgctccgagctgtggatg	X94353
34330	gacctggatcctgagccccaagggg	X94353
34331	cagctacctgagcaatgtgccttca	X94353
34332	ctacctgagcaatgtgccttcaagg	X94353
34333	gagcaatgtgccttcaaggaacagg	X94353
34334	gccgctgattcttttgacatcagct	X94353
34335	gattcttttgacatcagctgtaacg	X94353
34336	caccagctcaaattccgagtgcaga	AA000813
34337	ccagctcaaattccgagtgcagaaa	AA000813
34338	attactcaggaagctcacctcggac	AA000813
34339	tactcaggaagctcacctcggacgg	AA000813
34340	ctcaggaagctcacctcggacggag	AA000813
76877	agactatgactcccagtgagaagga	D32137
76878	ccactgtttcccctagagagatgtc	D32137
76879	agatgtcagctacccctaatggaca	D32137
76880	cagctacccctaatggacagagtaa	D32137
76881	attggtcttccagctctattgtctt	D32137
76882	cttccagctctattgtcttgttcct	D32137
76883	gctctattgtcttgttcctatgata	D32137
76884	ttcgacgcgcacgtccagggcggct	X92498
76885	gccacagtgcttcgtttccactaag	X92498
76886	ctgctttctccgaagatgacttaac	X92498
76887	ccagccaccggaagctttgcagatt	X92498
76888	agccctcacggttcgtctccagcag	X92498
76889	cacggttcgtctccagcagaagccc	X92498
76890	aggctttggcggcgttgtacagtga	X92498
76891	cgttgtacagtgaccaccacaagtc	X92498
76892	ctcctgctgaccctgagggcaggac	X92498
76893	gcgaacagctctatgtggaggttca	X92498
76894	gcataggccttggctttgatctcat	X92498
76895	gccttggctttgatctcattggatg	X92498
76896	gtgcttcgtttccactaaggcggat	X92498
76897	ccttggctttgatctcattggatgt	X92498
76898	tccagtgagccaatgcctgtgggcg	X92498
76899	atgcctgtgggcgaaggagtcgccc	X92498
76900	tctgccctggcagagactgagggtt	X92498
76901	gccggccaaagtcgtgcactgaggg	X92498
76902	caaagtcgtgcactgaggggcctcg	X92498
76903	ggcctcgtccatctgctttctccga	X92498
76904	gtccatctgctttctccgaagatga	X92498
76905	aagctctttgcatggaataaagggg	X97281
76906	ctttgcactcagaatctgagataca	X97281
76907	tgtaccacatggttaagttctaaat	X97281
76908	tctaaatcttaaactatcagtgaaa	X97281
76909	ttgtgactacctagctagcctccag	X97281
76910	cctccagcaggcaacttgggagttt	X97281
76911	ggagtttcacccgtgaatatctgaa	X97281
76912	tcacccgtgaatatctgaataatga	X97281
76913	atgagctaactttccatctattcac	X97281
76914	taactttccatctattcactgtaaa	X97281
76915	atgtaatccactgaactactgtacg	X97281
76916	tccactgaactactgtacgtataaa	X97281
76917	agatacacttagctctgcctctacg	X97281
76918	ctcactgtatcccacttgagaaaaa	X97281
76919	tatatactgtgtggctatctgtaaa	X97281
76920	actcttatttgtctaactatagatg	X97281
76921	atttgtctaactatagatgggcaac	X97281
76922	acttcatctagttagcaagttctcc	X97281
76923	tagcaagttctccatcactttaaga	X97281
76924	gttctccatcactttaagatttaca	X97281
76925	tcaggagctctgacgcctctcgttc	AA086896
76926	ctcgttctgtgaatgcctggtctcc	AA086896
76927	ttcctctcggcatacaggtgtcgca	AA086896
76928	tcggcatacaggtgtcgcatagaca	AA086896
76929	cgcatagacatccacgatgtgcaca	AA086896
76930	atccacgatgtgcacaatgtgtggg	AA086896
76931	cactgctctgcgcgccttcggatag	AA086896
76932	tgctctgcgcgccttcggatagtcg	AA086896
76933	gcgcgccttcggatagtcgctgagc	AA086896
76934	cttcggatagtcgctgagcatcttt	AA086896
76935	atagtcgctgagcatctttagggcg	AA086896
76936	gtcgctgagcatctttagggcgaat	AA086896
76937	ctcggtcctggattcgactaaagag	AA086896
76938	ggttctcttgtcgaagatcctgagc	AA086896
76939	ggtcctggattcgactaaagagctg	AA086896
76940	taaagagctgctccatcatcgagac	AA086896
76941	ccatcatcgagacactccatgacaa	AA086896
76942	tcgagacactccatgacaagcagca	AA086896
76943	acaagcagcaggcacttcctctcgg	AA086896
76944	aggcacttcctctcggcatacaggt	AA086896
119481	ctacagcccgaatccgggatactct	AA028288
119482	cagcccgaatccgggatactcttcg	AA028288
119483	gggatactcttcggcgcgtgcttaa	AA028288
119484	atactcttcggcgcgtgcttaacct	AA028288
119485	ctcccaacaccattatggaatacaa	AA028288
119486	aatacaaaactcacaccgacagcat	AA028288
119487	aaactcacaccgacagcatcaaaat	AA028288
119488	ctcacaccgacagcatcaaaatgcc	AA028288
119489	atctcatcctggctatgctcgggga	AA028288
119490	acaccgacagcatcaaaatgccagg	AA028288
119491	tggctatgctcggggagcaattcat	AA028288
119492	ctatgctcggggagcaattcatggt	AA028288
119493	ctgtccgctttcaggaggacattat	AA028288
119494	tccgctttcaggaggacattatttc	AA028288
119495	ataagactgccagcgaccaagcaac	AA028288
119496	agactgccagcgaccaagcaactac	AA028288
119497	ctgccagcgaccaagcaactacagc	AA028288
119498	ataccagcagcgcgttgctcattac	W29198
119499	cgttgctcattactcctgctctgaa	W29198
119500	aagtcctatgtttgcagctgtcctg	W29198
119501	tcctatgtttgcagctgtcctgaag	W29198
119502	tatgtttgcagctgtcctgaagcag	W29198
119503	gtttgcagctgtcctgaagcagatc	W29198
119504	tgcagctgtcctgaagcagatcagc	W29198
119505	tgtcctgaagcagatcagctctcca	W29198
119506	cagctctccatgtggttcgacagga	W29198
119507	ctctccatgtggttcgacaggaata	W29198
119508	tccatgtggttcgacaggaatatca	W29198
119509	aatagtgtcattacctggtatatcg	W29198
119510	ttactcctgctctgaatcgctcatg	W29198
119511	atagtgtcattacctggtatatcga	W29198
119512	ctcctgctctgaatcgctcatgtac	W29198
119513	ctgctctgaatcgctcatgtactag	W29198
119514	tcctgatcagaccacaagtcctatg	W29198
119515	tgatcagaccacaagtcctatgttt	W29198
119516	tcagaccacaagtcctatgtttgca	W29198
119517	gaccacaagtcctatgtttgcagct	W29198
119518	cacaagtcctatgtttgcagctgtc	W29198
119519	ctccggccttcgagtcgttcttgct	W67014
119520	tgcttgttcaccatcaacaaagaag	W67014
119521	gtgctgtttgctggctacaaagtcc	W67014
119522	tgctgtttgctggctacaaagtccc	W67014
119523	ctgtttgctggctacaaagtccctc	W67014
119524	tgtttgctggctacaaagtccctca	W67014
119525	agcacaagatcatcattcgtgtgca	W67014
119526	cacaagatcatcattcgtgtgcaga	W67014
119527	acaagatcatcattcgtgtgcagac	W67014
119528	aagatcatcattcgtgtgcagacca	W67014
119529	agatcatcattcgtgtgcagaccac	W67014
119530	atcatcattcgtgtgcagaccaccc	W67014
119531	gcttgttcaccatcaacaaagaaga	W67014
119532	ttgttcaccatcaacaaagaagacc	W67014
119533	ttcaccatcaacaaagaagaccaca	W67014
119534	tcaccatcaacaaagaagaccacac	W67014
119535	ccatcaacaaagaagaccacactct	W67014
119536	aaatcgcagctgttgaaggacccgc	W67014
119537	gacccgcaggtgctgtttgctggct	W67014
119538	aggtgctgtttgctggctacaaagt	W67014
119539	cagtgaaaagccacgtccaaactgt	M32489
119540	aaagccacgtccaaactgtgctctg	M32489
119541	agaagcctaggtgctctgcattccc	M32489
119542	cattccctggggaactgcaggaaag	M32489
119543	aaagccttacctgctgactgttgct	M32489
119544	gccttacctgctgactgttgctctg	M32489
119545	cctgctgactgttgctctggggaaa	M32489
119546	gactgttgctctggggaaaagcctg	M32489
119547	aagcctgagggtccagagcagctac	M32489
119548	gagcagctacaagctacaggccata	M32489

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34341	caggaagctcacctcggacggagtg	AA000813	76945	cacttcctctcggcatacaggtgtc	AA086896	119549	cagctacaagctacaggccatacct	M32489
34342	acagaactggtgctctcctctcctc	AA000813	76946	gctgtccaatttttggcctttgaag	AA086942	119550	gctacaggccataccttacaacctg	M32489
34343	ccattttgatggtgtctgtgacatt	AA000813	76947	tttttggcctttgaagagttgactg	AA086942	119551	acgtccaaactgtgctctgggctca	M32489
34344	tgtctgtgacatttcctgttgtgaa	AA000813	76948	tacaccctgtggacgtcctgcgtac	AA086942	119552	tccaaactgtgctctgggctcatca	M32489
34345	tctgtgacatttcctgttgtgaagt	AA000813	76949	agggcgagcccaagatctataacaa	AA086942	119553	atcccagtgggcacagagcggaatg	M32489
34346	tgtgacatttcctgttgtgaagtaa	AA000813	76950	agcccaagatctataacaatctgcg	AA086942	119554	caatctggctgtccaacctagtttg	M32489
34347	tgacatttcctgttgtgaagtaaaa	AA000813	76951	ccaagatctataacaatctgcgaga	AA086942	119555	tacacaacaggggcagaaagccaag	M32489
34348	agctcaaattccgagtgcagaaaag	AA000813	76952	agatctataacaatctgcgagaggc	AA086942	119556	tgttcaactttgtaacaagctgggt	M32489
34349	ctcaaattccgagtgcagaaaagaa	AA000813	76953	tctataacaatctgcgagaggccat	AA086942	119557	ttacatgctccacgcagctagagaa	M32489
34350	cccagacccttcattactcaggaag	AA000813	76954	acaatctgcgagaggccatacggac	AA086942	119558	catgctccacgcagctagagaagcc	M32489
34351	cagacccttcattactcaggaagct	AA000813	76955	atctgcgagaggccatacggaccat	AA086942	119559	acaaggcctgtgggcgtctcatggt	W30496
34352	gacccttcattactcaggaagctca	AA000813	76956	aggccatacggaccatgtataagac	AA086942	119560	gagagtcactacgcactcagggatg	W30496
34353	cccttcattactcaggaagctcacc	AA000813	76957	ccatacggaccatgtataagaccga	AA086942	119561	actgcaccgtcacattgctggaggc	W30496
34354	cttcattactcaggaagctcacctc	AA000813	76958	ttgactgagctgctctaccaagcca	AA086942	119562	tgcaccgtcacattgctggaggcct	W30496
34355	tcattactcaggaagctcacctcgg	AA000813	76959	actgagctgctctaccaagccaact	AA086942	119563	ccgtcacattgctggaggcctctgt	W30496
34356	ccatttaacgttctctatgagaagg	U43918	76960	ctgctctaccaagccaacttgtacc	AA086942	119564	gtcacattgctggaggcctctgtag	W30496
34357	tttaacgttctctatgagaaggagg	U43918	76961	ttgtaccaaacgcaccagttctcag	AA086942	119565	cattgctggaggcctctgtagccgc	W30496
34358	cctgacctgtacaagtctgagatgg	U43918	76962	taccaaacgcaccagttctcagcgc	AA086942	119566	gaggcctctgtagccgctcttgtca	W30496
34359	aaggctcttctccagagttctgcaa	U43918	76963	caaacgcaccagttctcagcgcact	AA086942	119567	tctgtagccgctcttgtcatagatc	W30496
34360	gctcttctccagagttctgcaagta	U43918	76964	cagttctcagcgcactttgtgtggg	AA086942	119568	tgtagccgctcttgtcatagatcat	W30496
34361	aaggcctccaagactgtagagaatg	U43918	76965	tcaccgtacaccctgtggacgtcct	AA086942	119569	tagccgctcttgtcatagatcatat	W30496
34362	aatgccaccagtggagaaaccttag	U43918	76966	ctgctcccttggggcttcatagatt	X92499	119570	gccgctcttgtcatagatcatatac	W30496
34363	gcaccccaggctctgtcaagtcgag	U43918	76967	tagcttatggaccaaacccataggg	X92499	119571	gagtcactacgcactcagggatgac	W30496
34364	ccccaggctctgtcaagtcgagttc	U43918	76968	tttaaagttgtgtccactggataag	X92499	119572	gtcactacgcactcagggatgacta	W30496
34365	gctctgtcaagtcgagttcgtcttc	U43918	76969	ttcgtcttgcccaactgttactgcc	X92499	119573	acgcactcagggatgactatgaggt	W30496
34366	ctgtcaagtcgagttcgtcttctcc	U43918	76970	ttgcccaactgttactgccaaattg	X92499	119574	agctgccctgagctggatcaattgg	W30496
34367	cacccaagactaccagcagagcggg	U43918	76971	cccaactgttactgccaaattgaat	X92499	119575	gccctgagctggatcaattggttga	W30496
34368	aaatttacagttctactcatgccca	U43918	76972	aactgttactgccaaattgaattca	X92499	119576	attggttgaggccgcgctctctgtg	W30496
34369	tttacagttctactcatgcccaacg	U43918	76973	ccccacgtcaccatgataaaatagg	X92499	119577	tatggcagtcgcatgacaggtggtg	W30496
34370	aacggccccatgcggataaccagtg	U43918	76974	aaatttcaatctcacctgtgtttgt	X92499	119578	atttggtgactgcaccgtcacattg	W30496
34371	ataaccagtggtccctttgagcctg	U43918	76975	tctcacctgtgtttgtcttatgtga	X92499	119579	ggacctgcagctggagctgaactcg	M31885
34372	agtggtccctttgagcctgacctgt	U43918	76976	cacctgtgtttgtcttatgtgatct	X92499	119580	gctgaactcggagtctgaagtcggg	M31885
34373	ggtccctttgagcctgacctgtaca	U43918	76977	tatgtgatctcagtgttgtatttac	X92499	119581	ctccagcccttcaggaggcaagagg	M31885
34374	ccctttgagcctgacctgtacaagt	U43918	76978	catagggaccccctaatgacttctgt	X92499	119582	gaaagacactaccgcagccaccgga	M31885
34375	gagcctgacctgtacaagtctgaga	U43918	76979	gacccctaatgacttctgtggagat	X92499	119583	ccacctttcagcctccagagacttt	M31885
34376	tcagaaagcctggtctctcaacctg	AA000468	76980	taatgacttctgtggagattctcca	X92499	119584	ttaaatggtcacatttcgtgcttct	M31885
34377	gtctctcaacctgaacggttttgat	AA000468	76981	agattctccacgggcgcaagaggtc	X92499	119585	aatggtcacatttcgtgcttctcgg	M31885
34378	cagatacatcccttctctgccagac	AA000468	76982	ggtctctccggataaggtgccttct	X92499	119586	cacatttcgtgcttctcggatttct	M31885
34379	cccttctctgccagacaggatcctt	AA000468	76983	taaggtgccttctgtaaacgagtgc	X92499	119587	atttcgtgcttctcggatttctgag	M31885
34380	ttctctgccagacaggatccttgat	AA000468	76984	gccttctgtaaacgagtgcggattt	X92499	119588	tcgtgcttctcggatttctgaggaa	M31885
34381	gccagacaggatccttgatgccccc	AA000468	76985	tgtaaccaggctattttgttcttgc	X92499	119589	ttctcggatttctgaggaaatattt	M31885
34382	caggatccttgatgcccccgaaatc	AA000468	76986	cggcacagcagcagctctcagactt	AA086829	119590	ttacaatgatcactggctgaaaata	M31885
34383	tgactactacctgaatcttgtagat	AA000468	76987	agcagctctcagacttcctgtgggc	AA086829	119591	cagcaccctgaacggcgagatcagt	M31885
34384	ctactacctgaatcttgtagattgg	AA000468	76988	ctcctgggctctgatgatgaggaac	AA086829	119592	ggcatgtgttccagccgacgatcgc	M31885
34385	tgtattggctgtggcactggacaac	AA000468	76989	gaagaccctaaggactattgcaagg	AA086829	119593	atgtgttccagccgacgatcgcatc	M31885
34386	attggctgtggcactggacaacagt	AA000468	76990	ggtggttactacccagtgaagatcg	AA086829	119594	tgttccagccgacgatcgcatcttg	M31885
34387	tgtggcactggacaacagtgtgtac	AA000468	76991	tactacccagtgaagatcggtgatt	AA086829	119595	agccgacgatcgcatcttgtgtcgc	M31885
34388	tctcaacctgaacggttttgatgtg	AA000468	76992	tacccagtgaagatcggtgatttgt	AA086829	119596	cgacgatcgcatcttgtgtcgctga	M31885
34389	agccaagatcctcaggctcagcggc	AA000468	76993	ttgttcaatgggcggtaccatgtgg	AA086829	119597	cggcgcactgagggaccagatggac	M31885
34390	gatcctcaggctcagcggcaaacct	AA000468	76994	ttcaatgggcggtaccatgtggtgc	AA086829	119598	gatggactccagcccttcaggaggc	M31885
34391	caggctcagcggcaaacctcagaat	AA000468	76995	ggggccatttctctacagtctggct	AA086829	119599	taattccaaccactggattaaatca	X75636
34392	tgccccagaaggctaccagaacaga	AA000468	76996	ctacagtctggctctgctgggatat	AA086829	119600	aatcctggcatagagcccatcacca	X75636
34393	cagtcagaaagccacgcctggctcc	AA000468	76997	cagtctggctctgctgggatattca	AA086829	119601	attttctgtggcattaattgcattc	X75636
34394	gacttgcagatacatcccttctctg	AA000468	76998	cagacttcctgtgggcctgagtcct	AA086829	119602	aattgcattcataatgccattaagt	X75636
34395	ttgcagatacatcccttctctgcca	AA000468	76999	atattcagcgcaacgctttgtggcc	AA086829	119603	tgcattcataatgccattaagtatc	X75636
34396	ggaacacagacattttcttatctct	U43892	77000	tcctgtgggcctgagtcctcaggct	AA086829	119604	catcagtgtttctcaaacattttag	X75636
34397	ttagcatttgcactgaagtagaacc	U43892	77001	cctgagtcctcaggctctgaattaa	AA086829	119605	tgtttctcaaacattttagtcatcg	X75636
34398	gaagtctgacatccatttgatatca	U43892	77002	ggctctgaattaactccagccacac	AA086829	119606	ttagtcatcgcaagcagacacttga	X75636
34399	gtctgacatccatttgatatcaata	U43892	77003	tctgaattaactccagccacaccag	AA086829	119607	gtcatcgcaagcagacacttgatat	X75636
34400	tgacatccatttgatatcaataacg	U43892	77004	ccagcacctcgtttgctgcagggac	AA086829	119608	agcagacacttgatatctattaaat	X75636
34401	acctcctttatgctgacaagttgta	U43892	77005	gcacctcgtttgctgcagggactcc	AA086829	119609	ctcctcagtcctagctaatttcttc	X75636
34402	tcctttatgctgacaagttgtaagg	U43892	77006	ggactcctgggctctgatgatgagg	AA086829	119610	ctcagtcctagctaatttcttcttt	X75636
34403	cttccagttatatttccttgtcaat	U43892	77007	gagcactaccagctgggactgttct	L10427	119611	cctggcatagagcccatcaccagca	X75636
34404	ccagttatatttccttgtcaatctg	U43892	77008	tggcgccacctactgggacaatggc	L10427	119612	gagcccatcaccagcacagtggggt	X75636
34405	gttatatttccttgtcaatctgaaa	U43892	77009	aggtcccattcagctgtggcaattc	L10427	119613	atttgtacatatttttccagaggat	X75636
34406	atatttccttgtcaatctgaaaatt	U43892	77010	gcaattcctcctggagctgctccaa	L10427	119614	tgtacatatttttccagaggatttt	X75636
34407	agctatatttgtactttgggcattt	U43892	77011	gctccaagacggggctcgcagcagc	L10427	119615	gtgtcactcttggctatatagtgag	X75636
34408	caaatcatacattcccattccttta	U43892	77012	ctgcatccgctggacgggcaatagc	L10427	119616	cctatctcaaattacatataagatt	X75636

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34409	atcatacattcccattcctttaatc	U43892	77013	gttccagctgtgcgaccccaaagag	L10427	119617	atctcaaattacatataagattgtg	X75636
34410	tatgtctttcaccatcttttgaatg	U43892	77014	ttaccgccgcgacatcgtgctcaag	L10427	119618	acattgcctacaattttctgtggca	X75636
34411	gtctttcaccatcttttgaatgtga	U43892	77015	ccgcgacatcgtgctcaagagtggt	L10427	119619	tcgagctgtttcgcgacccacttcc	W29278
34412	tgccccaagcgtgctcaatacataa	U43892	77016	gcctgtcctcgcctatcaggatgat	L10427	119620	tgtttcgcgacccacttccaaagct	W29278
34413	tgattttaccttacaactgtgtttg	U43892	77017	gcatctgccaggtgcagaaggccaa	L10427	119621	cctttcacagcactactgcaccatt	W29278
34414	taccttacaactgtgtttgaagtct	U43892	77018	tctgccaggtgcagaaggccaataa	L10427	119622	acagcactactgcaccattcacgtc	W29278
34415	tttgaagtctgacatccatttgata	U43892	77019	tgccggttcggactacaccaccacg	L10427	119623	ctactgcaccattcacgtccgaggg	W29278
34416	catggacactcgtcggagcatgtgc	AA000869	77020	ttcggactacaccaccacgtggaat	L10427	119624	gcggcagctccatctaccgagacca	W29278
34417	cactcgtcggagcatgtgcgggtcg	AA000869	77021	ctacaccaccacgtggaatactggg	L10427	119625	gctccatctaccgagaccaatttga	W29278
34418	tccagcggccttggatgcatcaaga	AA000869	77022	ggactgcagcatccctttcgagggg	L10427	119626	atgagaacttactctacagcataca	W29278
34419	agcggccttggatgcatcaagagtc	AA000869	77023	gcaccagagtccagcattcaccacg	L10427	119627	agaacttactctacagcatacacgt	W29278
34420	tgcatcaagagtccaccggcattag	AA000869	77024	gccctccaaatcgaacaagcagtct	L10427	119628	tctacagcatacacgtctggcactc	W29278
34421	atcaagagtccaccggcattagcat	AA000869	77025	caaatcgaacaagcagtctgataga	L10427	119629	caacaccggttccagtctttcactg	W29278
34422	aagagtccaccggcattagcatctc	AA000869	77026	agccacattgactcgctactccaaa	L10427	119630	caccggttccagtctttcactgcac	W29278
34423	agtccaccggcattagcatctctat	AA000869	77027	tcatgtccatgggctacgagcggga	X92410	119631	ttcgcgacccacttccaaagctagc	W29278
34424	gcattagcatctctatagtatgatt	AA000869	77028	ccgcattgagggccagctacaacaa	X92410	119632	ttccagtctttcactgcactgcacg	W29278
34425	ttagcatctctatagtatgattatc	AA000869	77029	tgctccagcagctgggtcaggaaaa	X92410	119633	gcgacccacttccaaagctagcaga	W29278
34426	tatgattatccggtgctacgtgatg	AA000869	77030	agcagttcatccagatgttgaatga	X92410	119634	acaactttcgagacctgacgcctgc	W29278
34427	gattatccggtgctacgtgatgaga	AA000869	77031	tcatccagatgttgaatgagcctcc	X92410	119635	ttcgagacctgacgcctgcaccgac	W29278
34428	gctatatacgaaacgctgtgatact	AA000869	77032	agctggcggacatctctgatgtaga	X92410	119636	gagacctgacgcctgcaccgacagg	W29278
34429	atatacgaaacgctgtgatactgac	AA000869	77033	actatatccaggtgacaccgcagga	X92410	119637	cgcctgcaccgacaggattcggcta	W29278
34430	tacgaaacgctgtgatactgaccga	AA000869	77034	tccaggtgacaccgcaggagaagga	X92410	119638	ctgcaccgacaggattcggctataa	W29278
34431	agtgactatcggtagccatggactt	AA000869	77035	tcccagagagcctggtgatccaggc	X92410	119639	caccgacaggattcggctataaggc	W29278
34432	cggtagccatggacttccagcggcc	AA000869	77036	tccaggcctacttcgcgtgtgaaaa	X92410	119640	agtgctctaggggtgcagaatattg	X66117
34433	tagccatggacttccagcggccttg	AA000869	77037	tggctgccaacttcctcctgagtca	X92410	119641	atcttcattgtcctggcagccggct	X66117
34434	ccatggacttccagcggccttggat	AA000869	77038	tcctcctgagtcagaactttgatga	X92410	119642	aagtgccagcgtcggctcaaacata	X66117
34435	tggacttccagcggccttggatgca	AA000869	77039	ttccaggaagccctgagcctgaaca	X92410	119643	cggctcaaacataagccacaggccc	X66117
34436	gaaaggcaacaccatcaccgagact	AA039108	77040	ctgaacatggttctgtccaggaaag	X92410	119644	aagccacaggccccagttattgtga	X66117
34437	caacaccatcaccgagactgaggtc	AA039108	77041	atggttctgtccaggaaagccagcg	X92410	119645	caggccccagttattgtgaaaacag	X66117
34438	cgaagactttgtgcggcacgctact	AA039108	77042	aggaaagccagcgcgctgagcagcc	X92410	119646	gttatcaacatgcacacatttaacg	X66117
34439	agactttgtgcggcacgctacttgg	AA039108	77043	agcagccggccacagaagcagcagg	X92410	119647	cacacatttaacgacagaaggttgc	X66117
34440	ctttgtgcggcacgctacttggagt	AA039108	77044	tcctgcgggaccagcctcagttcca	X92410	119648	accatggcatgaagctgggaggcca	X66117
34441	gcacgctacttggagtaccggagga	AA039108	77045	agcctcagttccagaacatgcggca	X92410	119649	aatcacccaagcacaaactgtcgtc	X66117
34442	cacaccgatcctgtggactatgaat	AA039108	77046	agttccagaacatgcggcaagtgat	X92410	119650	atgtttcctgtggaaatatgcaacc	X66117
34443	accgatcctgtggactatgaattac	AA039108	77047	ttctaatgggaatccctggagatag	X92411	119651	gaaatatgcaacctgtgcaaaataa	X66117
34444	accaacctggaaaccagcaagatga	AA039108	77048	ctcctcctcaggctgtgagtactgg	X92411	119652	attgtcctggcagccggcttggtgc	X66117
34445	aacctggaaaccagcaagatgaaag	AA039108	77049	atccttctttgctgccagccttgct	X92411	119653	gaatcttctatttggttagtgccac	X66117
34446	tttgtggccaaagtccataaccagg	AA039108	77050	ctttgctgccagccttgctacagca	X92411	119654	tggttagtgccaccataccatccag	X66117
34447	gaccccaaagactggcccacacaat	AA039108	77051	ccttgctacagcagataggtcggga	X92411	119655	ccataccatccagacactgtttagt	X66117
34448	caccatcaccgagactgaggtctgg	AA039108	77052	ttagccaacaccaggagcattttat	X92411	119656	catccagacactgtttagtaaactt	X66117
34449	cccaaagactggcccacacaatact	AA039108	77053	attacattcaagtaacacctcagga	X92411	119657	atgaggtccttctgtagcgccatgg	X66117
34450	catcaccgagactgaggtctgggac	AA039108	77054	ttcaagtaacacctcaggagaaaga	X92411	119658	tgtagcgccatggtggaagaactga	X66117
34451	ggacttcctgcgacggctcggagtg	AA039108	77055	catattttgcttgtgagaagaatga	X92411	119659	tctctgaagtgccagcgtcggctca	X66117
34452	cttcctgcgacggctcggagtgtac	AA039108	77056	tggctgccaactttcttctacagca	X92411	119660	tcaatgtgaccatcgaggttagtgt	L24191
34453	gaaactcattaccgaagactttgtg	AA039108	77057	ccaactttcttctacagcagaactt	X92411	119661	tgaccatcgaggttagtgtgaaaag	L24191
34454	actcattaccgaagactttgtgcgg	AA039108	77058	ttcttctacagcagaactttgatga	X92411	119662	atgagcacatcacagccaacttcac	L24191
34455	cattaccgaagactttgtgcggcac	AA039108	77059	ctcaggctgtgagtactggaactcc	X92411	119663	acatcacagccaacttcacccaata	L24191
34456	taccgaagactttgtgcggcacgct	AA039108	77060	cagtagctgcagctgcagcaaccac	X92411	119664	tatcttctgtcccatgtgacaaaag	L24191
34457	tagatttcctcatctgataggctgt	U18310	77061	ctgcagctgcagcaaccacgacagc	X92411	119665	catatcatttcaaatctgtgccaag	L24191
34458	tcctcatctgataggctgttgcttt	U18310	77062	caaccacgacagcaactacaacaac	X92411	119666	atttcaaatctgtgccaagaaaagc	L24191
34459	ctgccacctgtcatagaagggtgct	U18310	77063	caactacaacaaccacttctggagg	X92411	119667	ttaacaatgctactctcttcctgag	L24191
34460	agcagctatagattccccctggcc	U18310	77064	atcagcctcagtttcaacagatgag	X92411	119668	ctctcttcctgagccactgtgtgaa	L24191
34461	cttggccccaagcctgggacttgag	U18310	77065	ttatccagcagaatccttctttgct	X92411	119669	gatgcaggtgctcaccattgtgact	L24191
34462	cccaagcctgggacttgagccatcg	U18310	77066	agcagaatccttctttgctgccagc	X92411	119670	ggtgctcaccattgtgactcatgca	L24191
34463	agcaatgtgccttgatgaagatttc	U18310	77067	gtggttcctgttgggctttcagctc	X94444	119671	caccattgtgactcatgcaataaaa	L24191
34464	ggcagcaaaacaccaatcacaacgc	U18310	77068	ctggtaaactcctagctctgagtcc	X94444	119672	ctgtgctacttgctgtcctggaaga	L24191
34465	ccaatcacaacgctttgcttctcga	U18310	77069	actctgaagatgctttcccatatgt	X94444	119673	tcaaatttgaaaccaccatgacatc	L24191
34466	ctttgcttctcgacatcatgggcca	U18310	77070	aagatgctttcccatatgtgggcca	X94444	119674	ttgaaaccaccatgacatcctgggg	L24191
34467	ttctcgacatcatgggccaggtcct	U18310	77071	ctttcccatatgtgggccaggatga	X94444	119675	ccaccatgacatcctggggccttat	L24191
34468	tgggccaggtcctcagtttctaact	U18310	77072	gtatgtataacgccacggcaaaggc	X94444	119676	gccttattgtctcttctatcaacaa	L24191
34469	aggctgttgctttaccgtcacacgc	U18310	77073	ccatcgacgcaagcttggcatcttt	X94444	119677	ttgtctcttctatcaacaatatcgc	L24191
34470	taccgtcacacgcgatgtgcacagc	U18310	77074	acgcaagcttggcatctttccagtt	X94444	119678	cttctatcaacaatatcgctgagaa	L24191
34471	cacacgcgatgtgcacagccaaatt	U18310	77075	catctttccagttttacagcagagg	X94444	119679	atcacaagacatactgggagtttct	L24191
34472	cgatgtgcacagccaaattccctac	U18310	77076	tccagttttacagcagaggtgtgta	X94444	119680	agtttccaaatatcagagaagatag	M68944
34473	gcacagccaaattccctactcaaaa	U18310	77077	attgtgaccgtgataatgtgaacca	X94444	119681	gacacatacactacacagtatttag	M68944
34474	tccctactcaaaatatcatgttaaa	U18310	77078	gctatggcacccagaagggaagcaa	X94444	119682	gtatctgatttcccggatgtcatac	M68944
34475	ccatgttgctttcagagaggtcaac	U18310	77079	aactcctagctctgagtccccagaa	X94444	119683	gatttcccggatgtcataccaatca	M68944
34476	tcttctctgggaagatacaggagtc	U18310	77080	tagctctgagtccccagaatcttgt	X94444	119684	gtcataccaatcatccactcttatc	M68944

TABLE 1

SEQ ID NO	sequence	DBAxnID
34477	aaacctagttggcagcccaacatgt	AA108896
34478	agttggcagcccaacatgtaactcc	AA108896
34479	gcttgcagtatgcctctgaagtcac	AA108896
34480	tgcagtatgcctctgaagtcacagc	AA108896
34481	atgcctctgaagtcacagcaaaaag	AA108896
34482	cctctgaagtcacagcaaaaagtat	AA108896
34483	gtattacgtccttcctgggcagaca	AA108896
34484	ttacgtccttcctgggcagacaagt	AA108896
34485	cgtccttcctgggcagacaagttct	AA108896
34486	gcagacaagttcttcacaggacaaa	AA108896
34487	ttcttcacaggacaaacagcctgaa	AA108896
34488	ttcacaggacaaacagcctgaaatg	AA108896
34489	tggcagcccaacatgtaactccaga	AA108896
34490	cagcccaacatgtaactccagaact	AA108896
34491	aacatgtaactccagaactacaggg	AA108896
34492	atcattctgacagatattgaaagcc	AA108896
34493	gaaagccccggagagatgtttatgt	AA108896
34494	aggtttgcacctgacagtgacagct	AA108896
34495	tttgcacctgacagtgacagctaaa	AA108896
34496	aaggcttgcagtatgcctctgaagt	AA108896
34497	tcttattctactgcaggaaccgtgg	AA008803
34498	tattctactgcaggaaccgtggctg	AA008803
34499	gtatcttcctgccgcataacacact	AA008803
34500	tcctgccgcataacacacttccggt	AA008803
34501	cgcataacacacttccggtctcggc	AA008803
34502	cctctgttgggctgtagaagttaag	AA008803
34503	ttccctcagcaaccatcacttctat	AA008803
34504	cagcaaccatcacttctatgaagaa	AA008803
34505	ccatcacttctatgaagaatctaaa	AA008803
34506	cacctgtttggacggcacagccacc	AA008803
34507	ctgtttggacggcacagccaccatc	AA008803
34508	tttggacggcacagccaccatccca	AA008803
34509	actgcaggaaccgtggctgctgagc	AA008803
34510	gcaggaaccgtggctgctgagctaa	AA008803
34511	ggaaccgtggctgctgagctaacct	AA008803
34512	ggctattgacctttgcctctacctc	AA008803
34513	cctttgcctctacctcgcgtagtga	AA008803
34514	ttgcctctacctcgcgtagtgagag	AA008803
34515	cctctacctcgcgtagtgagaggcc	AA008803
34516	catcgcgtatcttcctgccgcataa	AA008803
34517	aaggtgtaccactgtgaggagactg	AA000892
34518	taccactgtgaggagactgtttttg	AA000892
34519	caatatcctctatggaccgctccat	AA000892
34520	tatcctctatggaccgctccatagc	AA000892
34521	cctctatggaccgctccatagcaaa	AA000892
34522	ctatggaccgctccatagcaaacag	AA000892
34523	tggaccgctccatagcaaacaggca	AA000892
34524	accgctccatagcaaacaggcagtg	AA000892
34525	gctccatagcaaacaggcagtgagc	AA000892
34526	catttacgtgaaacccaccattgtg	AA000892
34527	ccaccattgtgaccggtcttgccca	AA000892
34528	caccattgtgaccggtcttgcccag	AA000892
34529	actgtttttgcacgaaagcatccat	AA000892
34530	cattgtgaccggtcttgcccaggat	AA000892
34531	tttgcacgaaagcatccataatgaa	AA000892
34532	gagaagtgcctactcacagatccgt	AA000892
34533	aagtgcctactcacagatccgtgtt	AA000892
34534	tgcctactcacagatccgtgttggg	AA000892
34535	ctactcacagatccgtgttgggaac	AA000892
34536	ctgggaccccaatatcctctatgga	AA000892
34537	ggaccccaatatcctctatggaccg	AA000892
34538	ccttgtggcttcgggaagaattgca	U02304
34539	aattgcaacattccagtgtgggctg	U02304
34540	ccttcgctatggcctctttagtcaa	U02304
34541	ctatggcctctttagtcaagacagt	U02304
34542	cctctttagtcaagacagtgggatc	U02304
34543	ctacctgtggcctggcctctctaat	U02304
34544	tggcctctctaatgtcattcacatt	U02304
77081	cccagaatcttgtggactgtgtgac	X94444
77082	atcttgtggactgtgtgactgagaa	X94444
77083	gctatatgaccactgctttccaata	X94444
77084	ctgctttccaatacgtgcagcagaa	X94444
77085	tccaatacgtgcagcagaacggagg	X94444
77086	gcatcgactctgaagatgctttccc	X94444
77087	tggtggcaccaaccgttagtcccat	X92842
77088	gtcccattactcaggaggcataggc	X92842
77089	cattgctgtaatcccagcactggag	X92842
77090	tgctgtaatcccagcactggagtaa	X92842
77091	tgtaatcccagcactggagtaagag	X92842
77092	aatcccagcactggagtaagagtca	X92842
77093	attaagcttccaggtaacctcattg	X92842
77094	ccaggtaacctcattgtaccttgct	X92842
77095	ggtaacctcattgtaccttgctgat	X92842
77096	aacctcattgtaccttgctgatgtg	X92842
77097	ctcattgtaccttgctgatgtgtca	X92842
77098	tttgatactcgatttgacaaattac	X92842
77099	ccattactcaggaggcataggcagg	X92842
77100	gtggatctcttcagtttgaggccag	X92842
77101	gatctcttcagtttgaggccagcca	X92842
77102	ctcttcagtttgaggccagccaggg	X92842
77103	ttgaggccagccagggctacgtaga	X92842
77104	aggccagccagggctacgtagagac	X92842
77105	ccagccagggctacgtagagacctg	X92842
77106	gcacattgctgtaatcccagcactg	X92842
77107	cacctgcagacagctgaagcccaaa	U56734
77108	gctgaagcccaaagtcgaggtgcct	U56734
77109	tggatccagagcagcagcggactgt	U56734
77110	cagagcagcagcggactgtggcgcc	U56734
77111	gcttgtaccaacatcaccatgggag	U56734
77112	atcaccatgggagttgtctgcaagc	U56734
77113	gttgtctgcaagctccctagagtgg	U56734
77114	tgcaagctccctagagtggaagaga	U56734
77115	aacagcttcttgccatcagcagccc	U56734
77116	ctcctcctggccttgatgacggcag	U56734
77117	taccggcgccgacagagtgcggagc	U56734
77118	cccgcagaggccaccgagaagaaca	U56734
77119	gcccaaagtcgaggtgcctggttgg	U56734
77120	ggcatgaacttcaaccccaaaggag	U56734
77121	tggcaagacaacacagctgtgaact	U56734
77122	gacaacacagctgtgaactattcta	U56734
77123	cctagcatgctaagccacaacagct	U56734
77124	atgctaagccacaacagctgctact	U56734
77125	agccacaacagctgctactggatcc	U56734
77126	aacagctgctactggatccagagca	U56734
77127	aggaacaatccagtccatctatggt	U58512
77128	aatccagtccatctatggtgttaga	U58512
77129	ttactcatctagtaaagaagattcc	U58512
77130	agattcctaagaacccaccatctgg	U58512
77131	ctaagaacccaccatctggctttgt	U58512
77132	cctctcctcgaacgctgtcaacaag	U58512
77133	ctcgaacgctgtcaacaagatccac	U58512
77134	cgctgtcaacaagatccactgcaaa	U58512
77135	caacaagatccactgcaaatcagtc	U58512
77136	gatccactgcaaatcagtctttccg	U58512
77137	ctgcaaatcagtctttccgcaaagt	U58512
77138	atcagtctttccgcaaagtagtcaa	U58512
77139	ctaatttccagaatcacaaaggcca	U58512
77140	tccagaatcacaaaggccatgaatt	U58512
77141	atcacaaaggccatgaattcattcc	U58512
77142	atgaattcattcctaccctctacca	U58512
77143	ctgccaactgtgaggcctgtgccaa	U58512
77144	actgtgaggcctgtgccaaaccttt	U58512
77145	aggcctgtgccaaaccttgtggca	U58512
77146	gtgccaaaccttgtggcatgtctt	U58512
77147	agtgacttccaggcctgggatttcg	AA087270
77148	gatttcgactttggctataacaag	AA087270
119685	ccaatcatccactcttatcattaat	M68944
119686	atccactcttatcattaatgagctt	M68944
119687	tgagcttcattgttttgggttctaa	M68944
119688	gagtagcctgccgatatagcagaga	M68944
119689	ctcataatagcctcataagccagtc	M68944
119690	atagcctcataagccagtcctggga	M68944
119691	tcataagccagtcctgggaagaatt	M68944
119692	tacactacacagtatttagacaatc	M68944
119693	cataagccagtcctgggaagaattc	M68944
119694	atgcagtattcttctggatgtatag	M68944
119695	gacagcatgctgtgcagtagagaga	M68944
119696	aatcttgctcctgtcttattcctta	M68944
119697	gctcctgtcttattccttattccac	M68944
119698	ctttgaccaaatattccctggatca	M68944
119699	ccaaatattccctggatcaattcag	M68944
119700	attccctggatcaattcagtatctg	M68944
119701	ttaatgcctctccagcttctgcagt	W29331
119702	atgcctctccagcttctgcagtgca	W29331
119703	tttgtacatttcatcactcagtgca	W29331
119704	gtacatttcatcactcagtgcatga	W29331
119705	catttcatcactcagtgcatgagga	W29331
119706	ttcatcactcagtgcatgaggaagc	W29331
119707	atcactcagtgcatgaggaagcagc	W29331
119708	aggaagcagcccaaggagagaccgg	W29331
119709	cacccattcatcgtgcagttcaatg	W29331
119710	ccattcatcgtgcagttcaatgatg	W29331
119711	ttcatcgtgcagttcaatgatgggt	W29331
119712	atcgtgcagttcaatgatgggtgac	W29331
119713	cctctccagcttctgcagtgcattg	W29331
119714	ctccagcttctgcagtgcattgttg	W29331
119715	cttctgcagtgcattgttgatgagg	W29331
119716	gattcgccggtccttccgcttggag	W29331
119717	gtccttccgcttggagagttctcgg	W29331
119718	cttccgcttggagagttctcggagc	W29331
119719	gagttctcggagccgtttgtacatt	W29331
119720	ttctcggagccgtttgtacatttca	W29331
119721	tttttggcacacaataagcaaagta	M55290
119722	gaccgttttggccaattgtatgttg	M55290
119723	tgatctacccaatggccgagcaacg	M55290
119724	tctacccaatggccgagcaacgtat	M55290
119725	acccaatggccgagcaacgtatatt	M55290
119726	tattgattacgtggctttcaataaa	M55290
119727	tgaacaatacttaacatcgaaagga	M55290
119728	attgcaattcgttatgcgaaactcg	M55290
119729	attcgttatgcgaaactcgcaatat	M55290
119730	ctcgcaatatgccgataatcaaact	M55290
119731	ccaaaacatcattactcactttagg	M55290
119732	tactcactttaggagttacagctca	M55290
119733	tttggccaattgtatgttggcatca	M55290
119734	accgttattgcgttgtatgatgcta	M55290
119735	tatgatgctaacacaacaattcagg	M55290
119736	gaatactgcgctgcattcgtgaaca	M55290
119737	tactgcgctgcattcgtgaacatta	M55290
119738	ttctatgcaaactaacacacatatt	M55290
119739	tatgcaaactaacacacatattgga	M55290
119740	cacacatattggacgactagtaaaa	M55290
119741	gttctgcaaggattctgcgctggtc	AA017811
119742	tctgcaaggattctgcgctggtcgg	AA017811
119743	gctccaagccagacgacgatattct	AA017811
119744	tccaagccagacgacgatattcttg	AA017811
119745	caagccagacgacgatattcttgac	AA017811
119746	cgatattcttgacatcccgctggat	AA017811
119747	atattcttgacatcccgctggatga	AA017811
119748	attcttgacatcccgctggatgatc	AA017811
119749	tcttgacatcccgctggatgatccc	AA017811
119750	cgctgcagccaaaatccaggcgagt	AA017811
119751	ctgcagccaaaatccaggcgagttt	AA017811
119752	gcagccaaaatccaggcgagtttcc	AA017811

TABLE 1

SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID
34545	ctctaatgtcattcacattgaatgg	U02304	77149	tgcagccaggcaccactgaccagga	AA087270	119753	gccaaggaccctcaacaccggcaat	AA017811
34546	tgtcattcacattgaatggggatga	U02304	77150	gcaccactgaccaggaccttgtcaa	AA087270	119754	caacaccggcaatggactgctgcac	AA017811
34547	tgctcatagagccatatatgagccc	U02304	77151	ccactgaccaggaccttgtcaagct	AA087270	119755	acaccggcaatggactgctgcacgg	AA017811
34548	catatatgagccctagctgtgggct	U02304	77152	ctgaccaggaccttgtcaagctctg	AA087270	119756	gcaatggactgctgcacggagagcg	AA017811
34549	tgagccctagctgtgggctagaaat	U02304	77153	aggaccttgtcaagctctgtcagcc	AA087270	119757	aatggactgctgcacggagagcgcc	AA017811
34550	aacattccagtgtgggctgatggcc	U02304	77154	accttgtcaagctctgtcagccgta	AA087270	119758	tggactgctgcacggagagcgcctg	AA017811
34551	gatggcccagtctttctttaccagc	U02304	77155	ttgtcaagctctgtcagccgtagtg	AA087270	119759	gactgctgcacggagagcgcctgct	AA017811
34552	tttctttaccagcaaaaagcctgct	U02304	77156	agctctgtcagccgtagtgcaagat	AA087270	119760	ctgctccaagccagacgacgatatt	AA017811
34553	taccagcaaaaagcctgctaacttc	U02304	77157	tctgtcagccgtagtgcaagattgt	AA087270	119761	agccagcagctccacgagagctagg	W29617
34554	cagtggcccccaggattggaatggc	U02304	77158	gcaagattgtctccactaaggccat	AA087270	119762	cagctccacgagagctaggcctagg	W29617
34555	gggatccatctctttcccatagttt	U02304	77159	ggctcagcaaatggcacctccaagt	AA087270	119763	tcatgcccttgcctgagcctgagcc	W29617
34556	ccatattcagtggtttccttcctcg	U02304	77160	tcagcaaatggcacctccaagtcca	AA087270	119764	tgctgcctccgctgagaattcctga	W29617
34557	tcagtggtttccttcctcgtgccca	U02304	77161	aatggcacctccaagtccaaggaat	AA087270	119765	gctgcctccgctgagaattcctgag	W29617
34558	gcacagtccctagtgccttccctaa	U19032	77162	ggcacctccaagtccaaggaatagc	AA087270	119766	tgcctccgctgagaattcctgagct	W29617
34559	tccctagtgccttccctaatctcta	U19032	77163	gcaaaaccaacctgtatatccgagg	AA087270	119767	gcctccgctgagaattcctgagctc	W29617
34560	accagaaccaacatgcatccattct	U19032	77164	ccaacctgtatatccgaggactgca	AA087270	119768	tgagaattcctgagctcttgtctct	W29617
34561	aacatgcatccattcttggcctgtt	U19032	77165	tgtatatccgaggactgcagccagg	AA087270	119769	gagaattcctgagctcttgtctctc	W29617
34562	ccattcttggcctgttatacattag	U19032	77166	atatccgaggactgcagccaggcac	AA087270	119770	aattcctgagctcttgtctctccgt	W29617
34563	aactaaacagtgctttttgccatgc	U19032	77167	aagagcagtccaacccttacatggt	U58513	119771	ttcctgagctcttgtctctccgtcc	W29617
34564	gccatgcttcttgttaactgcataa	U19032	77168	acccttacatggtgttagacataga	U58513	119772	tgagctcttgtctctccgtccacga	W29617
34565	atgcttcttgttaactgcataaaga	U19032	77169	tagagtgccgtaggtgccacattaa	U58513	119773	agctccacgagagctaggcctaggc	W29617
34566	cttcttgttaactgcataaagaggt	U19032	77170	ttatagcgccctgcaaagtttatta	U58513	119774	tttgggcctgaaggacaaggaagag	W29617
34567	aggtaactgtcacttgtcagattag	U19032	77171	cgccctgcaaagtttattatgatat	U58513	119775	aggaagctagcgcacgagtggcagt	W29617
34568	taactgtcacttgtcagattaggac	U19032	77172	cccgatcatcccctagaacttcaat	U58513	119776	agccccagctgggcctgcagtcatt	W29617
34569	ttatttgcaacaaactggaaaacat	U19032	77173	catcccctagaacttcaatgaaaat	U58513	119777	ccccagctgggcctgcagtcattgg	W29617
34570	gtgccttccctaatctctaccagtt	U19032	77174	tacaacaaaaccagtccattcggcg	U58513	119778	cccagctgggcctgcagtcattggc	W29617
34571	tccctaatctctaccagttggctct	U19032	77175	agtccattcggcggcccagtcgaca	U58513	119779	cagctgggcctgcagtcattggccc	W29617
34572	tctaccagttggctcttagagatca	U19032	77176	ggcccagtcgacagcttgctccaaa	U58513	119780	tcgtcatgcccttgcctgagcctga	W29617
34573	accagttggctcttagagatcaggc	U19032	77177	gtcgacagcttgctccaaacaagcc	U58513	119781	tcccctggactagaaactgcatctc	K01238
34574	cagtcaggctcctaatcagtagaga	U19032	77178	agcttgctccaaacaagccaagcta	U58513	119782	ctttaaaatctctcattaccttcag	K01238
34575	ggctcctaatcagtagagagttcat	U19032	77179	acaagctatttcacgtccgacctgt	U58513	119783	tccatgcctgtatctgcacccattt	K01238
34576	agttcatagcctaccagaaccaaca	U19032	77180	gcttgctccaaacaagccaagctaa	U58513	119784	ccatgcctgtatctgcacccatttg	K01238
34577	cctaccagaaccaacatgcatccat	U19032	77181	gacctgttacccagacagatgtata	U58513	119785	catgcctgtatctgcacccatttgt	K01238
34578	tgtatcactgagttcacccaggcca	AA000946	77182	ttacccagacagatgtatacagagc	U58513	119786	cctgtatctgcacccatttgttctt	K01238
34579	atcactgagttcacccaggccaaca	AA000946	77183	atgagtttattcctactctttatca	U58513	119787	ctgtatctgcacccatttgttctta	K01238
34580	gatctttctaagcgctctgagacta	AA000946	77184	acttcccaaccaactgtgaggcatg	U58513	119788	tgtatctgcacccatttgttcttat	K01238
34581	aagcgctctgagactaaagatatat	AA000946	77185	caaccaactgtgaggcatgtatgaa	U58513	119789	gtatctgcacccatttgttcttatt	K01238
34582	atatacacgctcttcacgtggccac	AA000946	77186	gtatgaagccgctgtggcacatgtt	U58513	119790	atctgcacccatttgttcttattta	K01238
34583	ttcacgtggccaccgacaccaagaa	AA000946	77187	ctgctctagagtgccgtaggtgcca	U58513	119791	tttaaaatctctcattaccttcagt	K01238
34584	ccgacaccaagaacgtgcattggtg	AA000946	77188	cgtgtgtctgacgcactgtatcact	AA111268	119792	ttaaaatctctcattaccttcagta	K01238
34585	acgtgcattggtgttcgatgccgtc	AA000946	77189	gtgtctgacgcactgtatcactttc	AA111268	119793	attttcagtatgtacatccatgcct	K01238
34586	tgcattggtgttcgatgccgtcact	AA000946	77190	taaggactactgactcatcaagaaa	AA111268	119794	ttttcagtatgtacatccatgcctg	K01238
34587	cgtcatcatctagtgcaacctgaaa	AA000946	77191	ctactgactcatcaagaaatgactt	AA111268	119795	tttcagtatgtacatccatgcctgt	K01238
34588	catcatctagtgcaacctgaaagac	AA000946	77192	gtgtgtctgttgcttagccttgttc	AA111268	119796	atgtacatccatgcctgtatctgca	K01238
34589	catctagtgcaacctgaaagactgt	AA000946	77193	ctgttgcttagccttgttcccgagt	AA111268	119797	tgtacatccatgcctgtatctgcac	K01238
34590	actgagttcacccaggccaacaatt	AA000946	77194	gttcccgagtttcttaatgctctgt	AA111268	119798	gtacatccatgcctgtatctgcacc	K01238
34591	caggccaacaattacgtcgacgcag	AA000946	77195	tttcttaatgctctgtctgaggaag	AA111268	119799	agtgagtcctgaaccaaaatggaga	M13660
34592	agctacatccatagccagtttcatg	AA000946	77196	cttaatgctctgtctgaggaagctg	AA111268	119800	agaggactctcctggactaggacac	M13660
34593	tacatccatagccagtttcatgatc	AA000946	77197	gacacagattctgagctggggtcaa	AA111268	119801	gcaaattctggcatctcaaaaatat	M13660
34594	atccatagccagtttcatgatcttt	AA000946	77198	tcaatgaaccgctacataattttgt	AA111268	119802	aaattctggcatctcaaaaatatca	M13660
34595	cagtttcatgatctttctaagcgct	AA000946	77199	atgaaccgctacataattttgtgca	AA111268	119803	attctggcatctcaaaaatatcagt	M13660
34596	tttcatgatctttctaagcgctctg	AA000946	77200	gacgcactgtatcactttcgggacc	AA111268	119804	atctcaaaaatatcagtcatttttg	M13660
34597	catgatctttctaagcgctctgaga	AA000946	77201	gcactgtatcactttcgggacctgt	AA111268	119805	cagtaatgtgctttgctgtgtctat	M13660
34598	agcgacgtttcaagcaacagaagta	U19755	77202	ctgtatcactttcgggacctgtctc	AA111268	119806	ctttgctgtgtctatctgtaaagtc	M13660
34599	atctggccagcatgattcacctgac	U19755	77203	ctgtctccggatttcttctgaagac	AA111268	119807	tctatctgtaaagtcactgttatcc	M13660
34600	tgcaaagccacgcgcagcaacaagc	U19755	77204	aattttgggacctcatctccagatc	AA111268	119808	taaagtcactgttatccttccattc	M13660
34601	gccacgcgcagcaacaagctcagca	U19755	77205	gggacctcatctccagatctcattt	AA111268	119809	aagtcactgttatccttccattcca	M13660
34602	ctgccgcggccatctcagtgggcag	U19755	77206	acctcatctccagatctcatttaag	AA111268	119810	cactgttatccttccattccatttg	M13660
34603	gcctatcccatctgaactcctcggg	U19755	77207	tcatctccagatctcatttaaggac	AA111268	119811	ctaggacactgtacctcactgtgca	M13660
34604	tgaactcctcgggctcggactatgg	U19755	77208	cagaactcctcatcagtgcagactg	AA087277	119812	aggacactgtacctcactgtgcaaa	M13660
34605	cctcgggctcggactatggcgccat	U19755	77209	gaactcctcatcagtgcagactgga	AA087277	119813	gacactgtacctcactgtgcaaatt	M13660
34606	gctcggactatggcgccatgtcttg	U19755	77210	tcccagcagagactgcagcccagga	AA087277	119814	cactgtacctcactgtgcaaattct	M13660
34607	actatggcgccatgtcttgttctac	U19755	77211	ccagcagagactgcagcccaggagg	AA087277	119815	gtacctcactgtgcaaattctggca	M13660
34608	gcgccatgtcttgttctaccttgct	U19755	77212	agcagagactgcagcccaggaggac	AA087277	119816	acctcactgtgcaaattctggcatc	M13660
34609	ccttgctttatggtcggacctggtg	U19755	77213	cagagactgcagcccaggaggacag	AA087277	119817	ctcactgtgcaaattctggcatctc	M13660
34610	tgattcacctgacacccacgcaggt	U19755	77214	gagactgcagcccaggaggacagtg	AA087277	119818	gtgcaaattctggcatctcaaaaat	M13660
34611	cttgctttatggtcggacctggtga	U19755	77215	gactgcagcccaggaggacagtgcc	AA087277	119819	gcatgcagcactgctctggtaagca	W29430
34612	accaccgctacaagatgaagcgcca	U19755	77216	ctgcagcccaggaggacagtgccat	AA087277	119820	atgcagcactgctctggtaagcaga	W29430

TABLE 1

SEQ ID NO	sequence	DBAxnID
34613	agcgccaggctaaggacaaggcggc	U19755
34614	aggcggcgcagcaacaactgcagca	U19755
34615	gcccgcagcagcagcaagctcagca	U19755
34616	tcaaagacggcaaaccctgccaggc	U19755
34617	gagccgcaagcctgcaaagccacgc	U19755
34618	caagcctgcaaagccacgcgcagca	U19755
34619	gaggatgccttctacaaatgggaga	AA002277
34620	agcagcaaggaccccgctgagcaag	AA002277
34621	tcacgtcttcgccaatcacagtgca	AA002277
34622	acgtcttcgccaatcacagtgcagc	AA002277
34623	tcgccaatcacagtgcagcaaggcc	AA002277
34624	gccaatcacagtgcagcaaggccaa	AA002277
34625	caatcacagtgcagcaaggccaact	AA002277
34626	gtgcagcaaggccaactctcgcaga	AA002277
34627	gcagcaaggccaactctcgcagaaa	AA002277
34628	agcaaggccaactctcgcagaaacc	AA002277
34629	caactctcgcagaaaccccacgtgt	AA002277
34630	actctcgcagaaaccccacgtgtgc	AA002277
34631	catcaagtctgtcacggccttttttc	AA002277
34632	tcaagtctgtcacggccttttttcac	AA002277
34633	gccttttttcacgtggcttcgagaag	AA002277
34634	ttttcacgtggcttcgagaagcaga	AA002277
34635	ttcacgtggcttcgagaagcagaag	AA002277
34636	cacgtggcttcgagaagcagaagag	AA002277
34637	agtttcacgtcttcgccaatcacag	AA002277
34638	tttcacgtcttcgccaatcacagtg	AA002277
34639	atctgctactcaggaatcattaaaa	U28406
34640	attaaaactctgctgagatgtccca	U28406
34641	tccccatcaactggggagcaagaaa	U28406
34642	atctctgtggtgttttagttgggca	U28406
34643	aattgtcacttattccatggactga	U28406
34644	aacacattaagtcagtcacaatgac	U28406
34645	cagtcacaatgacctctagctcagt	U28406
34646	tcatttgtactttccatgcaatgct	U28406
34647	gtactttccatgcaatgctgatgct	U28406
34648	ctttccatgcaatgctgatgctctc	U28406
34649	tccatgcaatgctgatgctctcaaa	U28406
34650	atgcaatgctgatgctctcaaagac	U28406
34651	actctgctgagatgtcccaataaaa	U28406
34652	gcttttcacagcacgttttttagaga	U28406
34653	ttagagaccagctgtgagcagagta	U28406
34654	tgtgtcaacccagtaatctacgcct	U28406
34655	cggctctttttccacagaaatgtgg	U28406
34656	tttttccacagaaatgtggcagttt	U28406
34657	tatattccatttcttcctggtgaga	U28406
34658	acaagctctgtctccccatcaactg	U28406
34659	cccctacaatctgagtgtatttgtt	U28404
34660	tttccaagatgttctattcaccaat	U28404
34661	ctgattcagaccgtaggtgtcaacc	U28404
34662	atatagctctccaagacggatactg	U28404
34663	ctctccaagacggatactgacagtt	U28404
34664	gatactgacagttcttacagtcagg	U28404
34665	gacagttcttacagtcaggattccc	U28404
34666	tcttacagtcaggattcccaatctt	U28404
34667	gattcccaatcttgtagggtcaaag	U28404
34668	taggtataagtcacctcttaattg	U28404
34669	gtttccttgaacttctctctgttag	U28404
34670	ttgaacttctctctgttagaaagga	U28404
34671	agatgttctattcaccaatcagtgt	U28404
34672	tctattcaccaatcagtgtgagcag	U28404
34673	caccaatcagtgtgagcagagtaaa	U28404
34674	gaagtaccttcggcagctgtttcaa	U28404
34675	tgtggctataccactggcaaaatgg	U28404
34676	cttcctctctgtggaccaactagaa	U28404
34677	tccatccacaggagaacatgagctc	U28404
34678	tggcttctgattcagaccgtaggtg	U28404
34679	gttgacggcaagctctacatcctgc	AA002269
34680	gacggcaagctctacatcctgcagg	AA002269
77217	aggacagtgccatgctccgctccat	AA087277
77218	ccgctccatcctggtggcgttatgc	AA087277
77219	tccatcctggtggcgttatgcctgt	AA087277
77220	actcctcatcagtgcagactggagc	AA087277
77221	tcctcatcagtgcagactggagctc	AA087277
77222	agtgcagactggagctccagcagga	AA087277
77223	tgcagactggagctccagcaggaaa	AA087277
77224	gactggagctccagcaggaaagctc	AA087277
77225	agcaggaaagctcactccactgccc	AA087277
77226	aagggtcctcccagcagagactgca	AA087277
77227	gggtcctcccagcagagactgcagc	AA087277
77228	tcctctacgttctggctttacatga	D78175
77229	acgttctggctttacatgaagtact	D78175
77230	gccggttccaaatgcgatcgaatgt	D78175
77231	agcataccaacagctctccttgcaa	D78175
77232	ccaacagctctccttgcaaatcatc	D78175
77233	gctctccttgcaaatcatcaggtgg	D78175
77234	cttgcaaatcatcaggtggcctaga	D78175
77235	gggccctactaggtgctggcttgct	D78175
77236	tactaggtgctggcttgctaatggc	D78175
77237	gcttgctaatggccttctacttttt	D78175
77238	acatcgggaagcatcgagagctgcg	D78175
77239	attccatcagatcacatttttcggt	D78175
77240	tcagagctggctacagcaagaagga	D78175
77241	cagatcacatttttcggtggcttaa	D78175
77242	ggaaaatcatccagcagacttggaa	D78175
77243	tcatccagcagacttggaacaggac	D78175
77244	aaggtatcgccgggcaggtgtccat	D78175
77245	tcgccgggcaggtgtccatagatgc	D78175
77246	tctctgtggttgctatgactgacac	D78175
77247	ctatgactgacactgaagcaggcac	D78175
77248	caggcacccaagaggtcattggtga	D78175
77249	tgacaccctggagtggtattctatt	X97719
77250	tgtacccatcacgagagctatgagg	X97719
77251	ctatgataccctgatgcgccacaa	X97719
77252	gccacaaacccgagaagactattgc	X97719
77253	agaagactattgccactggttggtt	X97719
77254	ctattgccactggttggttgcaaac	X97719
77255	tgtaagatcccaacgctgacaacat	X97719
77256	atcccaacgctgacaacatcacagt	X97719
77257	acgctgacaacatcacagtgccttg	X97719
77258	acaacatcacagtgccttgaaccta	X97719
77259	tcacagtgccttgaacctaggacgc	X97719
77260	cagtgccttgaacctaggacgcagg	X97719
77261	catcacgagagctatgaggataact	X97719
77262	tgtatttagcctcctctgtataaag	X97719
77263	tagcctcctctgtataaaggacata	X97719
77264	tgctcagttgcatgatctaatagaa	X97719
77265	gccaacagcagctggcttgacttct	X97719
77266	agcagctggcttgacttctgtaggc	X97719
77267	ttctttcaacatagattttagagcc	X97719
77268	accttcctatgataccctgatgcg	X97719
77269	ccagaatcaacatcactgacctatc	AA087325
77270	cagaatcaacatcactgacctatct	AA087325
77271	tctctcctatgtggagtgtacttca	AA087325
77272	ctctcctatgtggagtgtacttcat	AA087325
77273	ctgatgtccagcgttcactacacca	AA087325
77274	tgatgtccagcgttcactacaccag	AA087325
77275	gatgtccagcgttcactacaccaga	AA087325
77276	atgtccagcgttcactacaccagac	AA087325
77277	aagacgcttccagatattgtatact	AA087325
77278	agacgcttccagatattgtatactg	AA087325
77279	gacgcttccagatattgtatactga	AA087325
77280	acgcttccagatattgtatactgat	AA087325
77281	gaatcaacatcactgacctatctcc	AA087325
77282	aatcaacatcactgacctatctccc	AA087325
77283	acttaatgtctctcctatgtggagt	AA087325
77284	cttaatgtctctcctatgtggagtg	AA087325
119821	ctcatccgtgtggttcgcagaaagc	W29430
119822	catccgtgtggttcgcagaaagcag	W29430
119823	tgcgctgcgcacgtgtttggagcac	W29430
119824	acgtgtttggagcactgcggatgac	W29430
119825	gtttggagcactgcggatgacaagg	W29430
119826	ttggagcactgcggatgacaaggag	W29430
119827	tgaagaacacctgtgtcttgtagag	W29430
119828	gtgtcttgtagaggcccagtgctca	W29430
119829	tgtagaggcccagtgctcagaaccg	W29430
119830	tagaggcccagtgctcagaaccggg	W29430
119831	gcagcactgctctggtaagcagatg	W29430
119832	cactgctctggtaagcagatgcatc	W29430
119833	aagcagatgcatcctttcctgaccc	W29430
119834	agatgcatcctttcctgaccccggg	W29430
119835	ctcctgggaacctctatggtctgcc	W29430
119836	cctgggaacctctatggtctgcctc	W29430
119837	ggaacctctatggtctgcctcatcc	W29430
119838	gcctcatccgtgtggttcgcagaaa	W29430
119839	aggatcaggaccaaacagcccagaa	
119840	gatcaggaccaaacagcccagaaga	
119841	gaagaccagcagcattggcaacatt	
119842	agaccagcagcattggcaacattca	
119843	accagcagcattggcaacattcacc	
119844	cagcagcattggcaacattcaccat	
119845	gcagcattggcaacattcaccatgg	
119846	cattggcaacattcaccatggctag	
119847	ttggcaacattcaccatggctaggc	
119848	caacattcaccatggctaggctctg	
119849	acattcaccatggctaggctctgtg	
119850	attcaccatggctaggctctgtgct	
119851	tcaggaccaaacagcccagaagacc	
119852	aggaccaaacagcccagaagaccag	
119853	gaccaaacagcccagaagaccagca	
119854	ccaaacagcccagaagaccagcagc	
119855	acagcccagaagaccagcagcattg	
119856	agcccagaagaccagcagcattggc	
119857	cccagaagaccagcagcattggcaa	
119858	cagaagaccagcagcattggcaaca	
119859	agagctttctgtcactagtgtcaga	W29462
119860	agctttctgtcactagtgtcagagc	W29462
119861	cacttgaggaactgcccactgcttc	W29462
119862	ttgaggaactgcccactgcttcttg	W29462
119863	gaggaactgcccactgcttcttgtg	W29462
119864	aggaactgcccactgcttcttgtga	W29462
119865	gaactgcccactgcttcttgtgaca	W29462
119866	aactgcccactgcttcttgtgacag	W29462
119867	tgcccactgcttcttgtgacagata	W29462
119868	cccactgcttcttgtgacagatagg	W29462
119869	ccactgcttcttgtgacagatagga	W29462
119870	actgcttcttgtgacagataggacc	W29462
119871	gctttctgtcactagtgtcagagct	W29462
119872	tttctgtcactagtgtcagagctct	W29462
119873	ttctgtcactagtgtcagagctcta	W29462
119874	ctgtcactagtgtcagagctctaca	W29462
119875	ctctacagtgcgtgaaatgactatc	W29462
119876	gtgttcaccacgggtcacttgagga	W29462
119877	ttcaccacgggtcacttgaggaact	W29462
119878	caccacgggtcacttgaggaactgc	W29462
119879	ccctgtcctacaagagctgacccag	M28587
119880	ctgtcctacaagagctgacccagca	M28587
119881	gactctatctctcttcttaagctct	M28587
119882	ctctatctctcttcttaagctctcc	M28587
119883	gaatacaatcaaccagcctagatgt	M28587
119884	atacaatcaaccagcctagatgttc	M28587
119885	aatcaaccagcctagatgttccagc	M28587
119886	aaccagcctagatgttccagcaaaa	M28587
119887	ccagcctagatgttccagcaaaact	M28587
119888	tagatgttccagcaaaactgagcaa	M28587

TABLE 1

SEQ ID NO	sequence	DBAxnID
34681	accactacaagctcaaggcccacag	AA002269
34682	cactacaagctcaaggcccacagcg	AA002269
34683	ctcaaggcccacagcgccgtgctgg	AA002269
34684	tcaaggcccacagcgccgtgctggc	AA002269
34685	aaggcccacagcgccgtgctggccg	AA002269
34686	gcgcgccatctgcagaagtatcggc	AA002269
34687	cgcgccatctgcagaagtatcggca	AA002269
34688	gcgccatctgcagaagtatcggcac	AA002269
34689	gccatctgcagaagtatcggcaccg	AA002269
34690	ccatctgcagaagtatcggcaccgg	AA002269
34691	acggcaagctctacatcctgcaggc	AA002269
34692	ggcaagctctacatcctgcaggccc	AA002269
34693	agagccaggccgccgcagagtcgag	AA002269
34694	cgcagagtcgagcaccactacaagc	AA002269
34695	gagtcgagcaccactacaagctcaa	AA002269
34696	agtcgagcaccactacaagctcaag	AA002269
34697	tcgagcaccactacaagctcaaggc	AA002269
34698	gagcaccactacaagctcaaggccc	AA002269
34699	acccattgtctgtcacaccagaagg	U43585
34700	tgtctgtcacaccagaaggttctag	U43585
34701	gtggtccctgagcggaggataagca	U43585
34702	ataagcagcatcagactccacaacc	U43585
34703	agactccacaaccagaggaagaaag	U43585
34704	agacccacgggctgagtcccgctgt	U43585
34705	tgagtcccgctgtggagtggccttg	U43585
34706	ccgctgtggagtggccttgcagctc	U43585
34707	ccagtaaagccacagttctccgagc	U43585
34708	aagccacagttctccgagcacccaa	U43585
34709	agtctgctccagccgtctcttaaaa	U43585
34710	cttaaaacaggccactctctgagaa	U43585
34711	tcacaccagaaggttctagacctac	U43585
34712	caggccactctctgagaaggaattc	U43585
34713	atctcatggaaacctttttagcccat	U43585
34714	agcccattctgacccctgtgtgtgc	U43585
34715	tgtgtgctctgagctcagatcgggt	U43585
34716	ctctgagctcagatcgggttatgag	U43585
34717	ttatgagaccgcccaggcacatcag	U43585
34718	tgagccgcagacctctgtgttcatt	U43585
34719	gcagacctctgtgttcattcctatg	U43585
34720	tgcggcaaggcttcgctgatagctc	AA002463
34721	aaggcttcgctgatagctcttacct	AA002463
34722	cagtcaccaaagggtgcacactggg	AA002463
34723	tcaccaaagggtgcacactgggcaa	AA002463
34724	gcacactgggcaacggcctttcagc	AA002463
34725	tgggcaacggcctttcagctgtggc	AA002463
34726	gcaacggcctttcagctgtggcatc	AA002463
34727	acggcctttcagctgtggcatctgt	AA002463
34728	tttcagctgtggcatctgtggcaaa	AA002463
34729	cagctgtggcatctgtggcaaaagc	AA002463
34730	tggcaaaagcttctcccaacggtca	AA002463
34731	cttctcccaacggtcagcacttatc	AA002463
34732	tcgctgatagctcttacctactccg	AA002463
34733	gtacccactctggccagaagcccta	AA002463
34734	cctacaaatgtccacactgtgggaa	AA002463
34735	gaggccctacagctgccccgagtgt	AA002463
34736	gtgctatagccagaactcgtccctg	AA002463
34737	tagccagaactcgtccctgcgcagt	AA002463
34738	ctcgtccctgcgcagtcaccaaagg	AA002463
34739	gtccctgcgcagtcaccaaagggtg	AA002463
34740	ttcttggctctgcgtcagtaccctg	U21226
34741	cagtaccctgatgccttctcgagtt	U21226
34742	ttgtcgctacacttcctacctagag	U21226
34743	tgcgcagcacctctgctttccaagg	U21226
34744	gcgttcccattcgttgctgaatttg	U21226
34745	tcatgcctgttgctctcaggtatac	U21226
34746	accctctttctacctcaaatcagtg	U21226
34747	ctctttctacctcaaatcagtgtga	U21226
34748	ctacctcaaatcagtgtgaccactc	U21226
77285	taatgtctctcctatgtggagtgta	AA087325
77286	aatgtctctcctatgtggagtgtac	AA087325
77287	atgtctctcctatgtggagtgtact	AA087325
77288	tgtctctcctatgtggagtgtactt	AA087325
77289	agtcaagctcagaactccaaacatg	AA087334
77290	tcaagctcagaactccaaacatgga	AA087334
77291	tataggaatctcacagctataggtt	AA087334
77292	taggaatctcacagctataggttac	AA087334
77293	aatctcacagctataggttacagtt	AA087334
77294	tctcacagctataggttacagttgg	AA087334
77295	ttgaagaccatttccaaacttctag	AA087334
77296	caaacttctagaagtcatggaaggt	AA087334
77297	aaggtaattttcctctgcaagctga	AA087334
77298	ggtaattttcctctgcaagctgatg	AA087334
77299	attttcctctgcaagctgatgagaa	AA087334
77300	tcctctgcaagctgatgagaaaatg	AA087334
77301	gctcagaactccaaacatggattta	AA087334
77302	tcagaactccaaacatggatttagt	AA087334
77303	agaactccaaacatggatttagtca	AA087334
77304	atttagtcacctatgatgacgtgca	AA087334
77305	ttagtcacctatgatgacgtgcatg	AA087334
77306	agtcacctatgatgacgtgcatgtg	AA087334
77307	ctatgatgacgtgcatgtgaacttc	AA087334
77308	gcatgtgaacttcactcaggaagag	AA087334
77309	ctggctgatacttctgtaagcctac	AA087332
77310	ctgatacttctgtaagcctacccac	AA087332
77311	taagcctacccacagagtatctttc	AA087332
77312	aagcctacccacagagtatctttca	AA087332
77313	agcctacccacagagtatctttcag	AA087332
77314	cctacccacagagtatctttcagag	AA087332
77315	ctacccacagagtatctttcagaga	AA087332
77316	tacccacagagtatctttcagagat	AA087332
77317	cccacagagtatctttcagagatca	AA087332
77318	ccacagagtatctttcagagatcac	AA087332
77319	gtatctttcagagatcacgaatttt	AA087332
77320	tatctttcagagatcacgaattttg	AA087332
77321	tgatacttctgtaagcctacccaca	AA087332
77322	atctttcagagatcacgaattttgg	AA087332
77323	gatacttctgtaagcctacccacag	AA087332
77324	tacttctgtaagcctacccacagag	AA087332
77325	acttctgtaagcctacccacagagt	AA087332
77326	cttctgtaagcctacccacagagta	AA087332
77327	tctgtaagcctacccacagagtatc	AA087332
77328	ctgtaagcctacccacagagtatct	AA087332
77329	tgtaagcctacccacagagtatctt	AA087332
77330	catcactaacttttccataccatcc	AA087336
77331	cactaacttttccataccatccact	AA087336
77332	tgaggactttcgcgagaaagactcc	AA087336
77333	agactccagaaatgttcagggcaag	AA087336
77334	tcagggcaagccctggataaccagc	AA087336
77335	caagccctggataaccagctataag	AA087336
77336	gccctggataaccagctataagctg	AA087336
77337	gataaccagctataagctgggccag	AA087336
77338	agtcgattcttccggacaagacctg	AA087336
77339	gccttcgttgacaacctgtgtggag	AA087336
77340	ttcgttgacaacctgtgtggagaat	AA087336
77341	gttgacaacctgtgtggagaatacc	AA087336
77342	taacttttccataccatccactctc	AA087336
77343	atccactctcatccttctatatcac	AA087336
77344	cactctcatccttctatatcactac	AA087336
77345	tctcatccttctatatcactaccaa	AA087336
77346	catccttctatatcactaccaacca	AA087336
77347	cacttcctataagccagctccaaga	AA087336
77348	ttcctataagccagctccaagaagc	AA087336
77349	catccctagtattgaggactttcgc	AA087336
77350	gactgtatctagagctgcgggtctc	Y07621
77351	atctagagctgcgggtctccctctc	Y07621
77352	tcttttcaccttcgtttctacatag	Y07621
119889	gatgttccagcaaaactgagcaaag	M28587
119890	aagattttctgcgtgtaaaaacatg	M28587
119891	gtcctacaagagctgacccagcagg	M28587
119892	cctacaagagctgacccagcaggtc	M28587
119893	caagagctgacccagcaggtcctga	M28587
119894	caaagcctgtgtgatgcaggaggtg	M28587
119895	aggactctcctgaatgaggactcta	M28587
119896	gactctcctgaatgaggactctatc	M28587
119897	ctctcctgaatgaggactctatctc	M28587
119898	aatgaggactctatctctcttctta	M28587
119899	gaaggagcccagatcaacaggcagg	W29470
119900	aaggagcccagatcaacaggcaggt	W29470
119901	ggccgcgcactccaagtccacagag	W29470
119902	gccgcgcactccaagtccacagagg	W29470
119903	gcgcactccaagtccacagaggaat	W29470
119904	gcactccaagtccacagaggaatgt	W29470
119905	cactccaagtccacagaggaatgtt	W29470
119906	ctccaagtccacagaggaatgtttg	W29470
119907	tccaagtccacagaggaatgtttgt	W29470
119908	gagcgagaccacaggccttacccca	W29470
119909	taccccagaccaagttaagcgacat	W29470
119910	cccagaccaagttaagcgacatctg	W29470
119911	ggagcccagatcaacaggcaggtgg	W29470
119912	gagcccagatcaacaggcaggtgga	W29470
119913	gcccagatcaacaggcaggtggata	W29470
119914	cccagatcaacaggcaggtggataa	W29470
119915	cagatcaacaggcaggtggataagc	W29470
119916	agatcaacaggcaggtggataagct	W29470
119917	tggcccccaggaagggagcacaatg	W29470
119918	cacaatggaggccgcgcactccaag	W29470
119919	cccacctgtcctggggcttgcaacg	W29478
119920	tgtcctggggcttgcaacggccacg	W29478
119921	gactgcagcgagcacgctgtcctgg	W29478
119922	cacgctgtcctggcgactgtagtgg	W29478
119923	gctgtcctggcgactgtagtggcaa	W29478
119924	gtcctggcgactgtagtggcaatgg	W29478
119925	tctgtgacactggcgagtgttactg	W29478
119926	tgacactggcgagtgttactgtgag	W29478
119927	gacactggcgagtgttactgtgaga	W29478
119928	acactggcgagtgttactgtgagat	W29478
119929	cactggcgagtgttactgtgagatg	W29478
119930	tactggccccgactgttcccaggtg	W29478
119931	gcctgtccccaggactgcagtgggc	W29478
119932	ccccaggactgcagtgggcatggcg	W29478
119933	tgcgtgcagggtgtctgccagtgcc	W29478
119934	tgccacgaggacttcacagcagagg	W29478
119935	cacgaggacttcacagcagaggact	W29478
119936	gaggacttcacagcagaggactgca	W29478
119937	gacttcacagcagaggactgcagcg	W29478
119938	ttcacagcagaggactgcagcgagc	W29478
119939	gcacgtcatgagcaccaggttatgc	W54228
119940	acgtcatgagcaccaggttatgcta	W54228
119941	acgttagaactcaggcaggaagagg	W54228
119942	ttagaactcaggcaggaagaggaac	W54228
119943	gaaatgatgcgccgacagcaggaag	W54228
119944	aaatgatgcgccgacagcaggaagg	W54228
119945	aatgatgcgccgacagcaggaagga	W54228
119946	tgatgcgccgacagcaggaaggatt	W54228
119947	gaaccttccctgatgcgagagaaca	W54228
119948	accttccctgatgcgagagaacaag	W54228
119949	ccttccctgatgcgagagaacaaga	W54228
119950	cttccctgatgcgagagaacaagag	W54228
119951	cgtcatgagcaccaggttatgctaa	W54228
119952	catgagcaccaggttatgctaatga	W54228
119953	atgagcaccaggttatgctaatgag	W54228
119954	tgagcaccaggttatgctaatgagg	W54228
119955	agcaccaggttatgctaatgaggca	W54228
119956	gaaacacgttagaactcaggcagga	W54228

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34749	caaatcagtgtgaccactcgcagcc	U21226	77353	cttcgtttctacatagagatgttaa	Y07621	119957	acacgttagaactcaggcaggaaga	W54228
34750	ctttgccaaagcagtatctatgctc	U21226	77354	aatattatccacacatttgcaatgg	Y07621	119958	cacgttagaactcaggcaggaagag	W54228
34751	agtatctatgctcttgacttaataa	U21226	77355	atccacacatttgcaatggctggca	Y07621	119959	agcccaaagcagctatcggttgcag	M89641
34752	cctgatgccttctcgagttaaaatg	U21226	77356	cacacatttgcaatggctggcatct	Y07621	119960	aagcagctatcggttgcagcagcgg	M89641
34753	gatgccttctcgagttaaaatgcaa	U21226	77357	atggctggcatctgctctattccca	Y07621	119961	ttcctgtgcaggcacatgttcttaa	M89641
34754	ggaagactgacgctgcctgggttga	U21226	77358	gctggcatctgctctattcccattg	Y07621	119962	tgcaggcacatgttcttaaggaatg	M89641
34755	ctgacgctgcctgggttgacctctc	U21226	77359	atctgctctattcccattgctgtct	Y07621	119963	aggaatgccatgcacacaggcctga	M89641
34756	gggttgacctctcctgagcagcgat	U21226	77360	tgctctattcccattgctgtctgca	Y07621	119964	cacacaggcctgaagagctggctca	M89641
34757	ttgacctctcctgagcagcgatggt	U21226	77361	tctattcccattgctgtctgcaggc	Y07621	119965	tagagcacaggttgctcttgtctgg	M89641
34758	acctctcctgagcagcgatggtttt	U21226	77362	actccacttcacagagcagaggtgg	Y07621	119966	tgctcttgtctgggatctgagctct	M89641
34759	tccttcttgtcgctacacttcctac	U21226	77363	ccacttcacagagcagaggtggccc	Y07621	119967	cagcacccacagagtgcttctggtt	M89641
34760	tgggcagtaaccccagcaacgcaga	AA002469	77364	ggagaccagctctggtttattgaag	Y07621	119968	tgcctcagactccaggggtgcacaa	M89641
34761	gcagtaaccccagcaacgcagaggt	AA002469	77365	gaccagctctggtttattgaagatg	Y07621	119969	agactccaggggtgcacaaggccat	M89641
34762	cttcgagatgttcctgcccatcctg	AA002469	77366	aggagaactccgggcaggcagttcg	Y07621	119970	tgcacaaggccatgtaagcaaagac	M89641
34763	ctcccgcaacaaggagcagtgcacc	AA002469	77367	ttcgtgtgaatctctcagagggaat	Y07621	119971	gcttcacctgagcctggccttctgg	M89641
34764	cacctatgacgacttcgtggattgg	AA002469	77368	tgaatctctcagagggaatgcaact	Y07621	119972	cctgagcctggccttctgggcgagc	M89641
34765	ctatgacgacttcgtggattggctg	AA002469	77369	tgatcttttcaccttcgtttctaca	Y07621	119973	cttctgggcgagcagttctacctgc	M89641
34766	cgtggattggctgcgggtctttgac	AA002469	77370	gtttcatggggcagctgctacagct	L11330	119974	cagttctacctgcacacttcaagac	M89641
34767	ggattggctgcgggtctttgacaaa	AA002469	77371	tcatggggcagctgctacagctgga	L11330	119975	tacctgcacacttcaagacagcctc	M89641
34768	ctttgacaaatacagcacggcacag	AA002469	77372	atcttgccgtcccactggggtgcta	L11330	119976	cacacttcaagacagcctccatgac	M89641
34769	caaatacagcacggcacagtcatgg	AA002469	77373	tccaggatgacggctgctctgatat	L11330	119977	tcacggcacaccgcctgcttttggt	M89641
34770	atacagcacggcacagtcatgggtg	AA002469	77374	aggatgacggctgctctgatatggt	L11330	119978	cacaccgcctgcttttggtgtgacc	M89641
34771	cagcacggcacagtcatgggtgcag	AA002469	77375	atgacggctgctctgatatggtgct	L11330	119979	tggaccaactaagcctaccagctca	W29450
34772	ttttgggcaacccaagcctgaagag	AA002469	77376	tctcccttcttcgacttgcagaaat	L11330	119980	gctcaccctacacagatttcgatgg	W29450
34773	tgggcaacccaagcctgaagagatg	AA002469	77377	tggtcacccaagggctcagaaaaca	L11330	119981	atccactgattgacaagatggtggt	W29450
34774	gcaacccaagcctgaagagatgagt	AA002469	77378	caagcagaaaccatgtctaggggtg	L11330	119982	acaatatacacatatagatggagag	W29450
34775	acccaagcctgaagagatgagttcc	AA002469	77379	ttaagccttgtgctcccaggggagc	L11330	119983	tggagagaacaccaccttaacaat	W29450
34776	gagttccaagacactggacttcgag	AA002469	77380	catcccgctgtaattggtgctgaaa	L11330	119984	gagaacaccaccttaacaatactg	W29450
34777	ttccaagacactggacttcgagatg	AA002469	77381	tttgtgttcaactgacatttaacgc	L11330	119985	ggtttttactcaatatcacagcaga	W29450
34778	gacactggacttcgagatgttcctg	AA002469	77382	agctgctacagctggagacccaggt	L11330	119986	tttttactcaatatcacagcagata	W29450
34779	ggacttcgagatgttcctgcccatc	AA002469	77383	tgctacagctggagacccaggtgct	L11330	119987	tttactcaatatcacagcagatata	W29450
34780	ccagaagaccttaatctcttcttca	AA142328	77384	agctggagacccaggtgctctgtca	L11330	119988	ctcaatatcacagcagatatacaca	W29450
34781	actgccacctgccaagatggcatat	AA142328	77385	agacccaggtgctctgtcactgagg	L11330	119989	caatatcacagcagatatacacaca	W29450
34782	tcctttgaagtgtccgtggaggctc	AA142328	77386	aggtgctctgtcactgaggcaaagc	L11330	119990	atatcacagcagatatacacacatg	W29450
34783	agctgccccggcagacaagcagcac	AA142328	77387	tgctctgtcactgaggcaaagccca	L11330	119991	accctacacagatttcgatggtgct	W29450
34784	agacaagcagcacagtctttcacct	AA142328	77388	cccacagctctggctttgactgact	L11330	119992	agatatacacacatgcgcatgcgag	W29450
34785	gcagcacagtctttcaccttgaggc	AA142328	77389	acagctctggctttgactgactcct	L11330	119993	cctacacagatttcgatggtgctaa	W29450
34786	cagtctttcaccttgaggcccgtgg	AA142328	77390	gagtccatgaaacttgccatattca	X80232	119994	tcggaaccctctttgtcccacagcg	W29450
34787	tggaagtcgcctacaattgcacatg	AA142328	77391	atgaaacttgccatattcaatatac	X80232	119995	ggaaccctctttgtcccacagcgca	W29450
34788	aagtcgcctacaattgcacatgcgg	AA142328	77392	atacattccaccacagatggactct	X80232	119996	gtcccacagcgcaaactggaagtct	W29450
34789	cctacaattgcacatgcggctgtag	AA142328	77393	tccaccacagatggactctgtctct	X80232	119997	cccacagcgcaaactggaagtctca	W29450
34790	acaattgcacatgcggctgtagcac	AA142328	77394	acagatggactctgtctctagcgtt	X80232	119998	ggatatccactgattgacaagatgg	W29450
34791	attgcacatgcggctgtagcacggg	AA142328	77395	ggactctgtctctagcgttagacta	X80232	119999	atatccactgattgacaagatggtg	W29450
34792	gccacctgccaagatggcatatctt	AA142328	77396	tgtctctagcgttagactatatgaa	X80232	120000	atccctatggagatgacggagaaga	X14029
34793	agccaacagtgccagatgcagtggg	AA142328	77397	ggatcatcaaaccttgtcatggatg	X80232	120001	aagagttacactgcctttgccatcc	X14029
34794	acctgccaagatggcatatcttacc	AA142328	77398	tcaaaccttgtcatggatgaagact	X80232	120002	tcaactgctctccacttgaagagct	X14029
34795	ggcatatcttaccctggtcagagga	AA142328	77399	atatgattttcaggtcctttgctta	X80232	120003	aagtacaacagctacgcctggatgg	X14029
34796	tcttaccctggtcagaggaagtgtg	AA142328	77400	ggaggcccaattcactcaaatgttt	X80232	120004	ttcaggaactttctcatcattcgaa	X14029
34797	taccctggtcagaggaagtgtgagg	AA142328	77401	ccaattcactcaaatgttttgagaa	X80232	120005	aactttctcatcattcgaagactta	X14029
34798	attggggacacggcatcctttgaag	AA142328	77402	cttgccatattcaatatacctgcga	X80232	120006	ctcatcattcgaagacttaccagaa	X14029
34799	gacacggcatcctttgaagtgtccg	AA142328	77403	atattcaatatacctgcgattaagt	X80232	120007	tgaagacctgtcagttgatgcctca	X14029
34800	gcatcctttgaagtgtccgtggagg	AA142328	77404	cgctgtaactctgtactgctagtat	X80232	120008	aggcaacctttaagcatcagaggcg	X14029
34801	acttctgctgcctcagcttcatacg	AA002526	77405	aactctgtactgctagtattagaac	X80232	120009	cctttaagcatcagaggcggactct	X14029
34802	ttctgctgcctcagcttcatacgct	AA002526	77406	ttagaacaaaactcttcccatacag	X80232	120010	agcatcagaggcggactctgggact	X14029
34803	atacgctatgcctactccgctgagt	AA002526	77407	tgtgtcggcctttatgtaatctgta	X80232	120011	tgaatctactgcatttgaaaggtca	X14029
34804	gcctactccgctgagtctagggatc	AA002526	77408	ctacagatacatgcctttaaagggc	X80232	120012	tacactgcctttgccatccaagaga	X14029
34805	cctactccgctgagtctagggatcg	AA002526	77409	gtgacaatacattccaccacagatg	X80232	120013	gcctttgccatccaagagatgctcc	X14029
34806	tactccgctgagtctagggatcgga	AA002526	77410	atgaaagcactgtggacaggacagt	AA087408	120014	cagaatgtctttcttgtcttcagaa	X14029
34807	actccgctgagtctagggatcggaa	AA002526	77411	tgaaagcactgtggacaggacagta	AA087408	120015	gtctttcttgtcttcagaaacaatt	X14029
34808	tccgctgagtctagggatcggaaga	AA002526	77412	attaatgaccagtttgcaggctcca	AA087408	120016	ttcagaaacaatttctccagcactg	X14029
34809	tacgcctccactgctaagtgcctga	AA002526	77413	ttaatgaccagtttgcaggctccag	AA087408	120017	actattgttgtacgtctcctggatg	X14029
34810	acgcctccactgctaagtgcctgaa	AA002526	77414	taatgaccagtttgcaggctccagc	AA087408	120018	cgtctcctggatgaactccaccagc	X14029
34811	gcctccactgctaagtgcctgaaca	AA002526	77415	aatgaccagtttgcaggctccagca	AA087408	120019	atgtcctcaactgctctccacttga	X14029
34812	cctccactgctaagtgcctgaacat	AA002526	77416	accagtttgcaggctccagcaacag	AA087408	120020	aaggaagacgccttctacagctggg	W29456
34813	tctgctgcctcagcttcatacgcta	AA002526	77417	ccagtttgcaggctccagcaacagg	AA087408	120021	aggaagacgccttctacagctggga	W29456
34814	ctccactgctaagtgcctgaacatc	AA002526	77418	tatagatacatcagtccaaaggact	AA087408	120022	acttggagccatggacacgtggatg	W29456
34815	tgctgcctcagcttcatacgctatg	AA002526	77419	atagatacatcagtccaaaggactt	AA087408	120023	cttggagccatggacacgtggatgg	W29456
34816	tgcctcagcttcatacgctatgcct	AA002526	77420	tagatacatcagtccaaaggacttt	AA087408	120024	gagccatggacacgtggatggccca	W29456

TABLE 1

SEQ ID NO	sequence	DBAxnID
34817	gcctcagcttcatacgctatgccta	AA002526
34818	tcagcttcatacgctatgcctactc	AA002526
34819	gcttcatacgctatgcctactccgc	AA002526
34820	ttcatacgctatgcctactccgctg	AA002526
34821	tcatacgctatgcctactccgctga	AA002526
34822	cctcctaagcgtcagccataactga	U44389
34823	aagcgtcagccataactgaaaccca	U44389
34824	tacgatgaaacctaccttcctgtat	U44389
34825	taccttcctgtatctgatgttaata	U44389
34826	attccagaaatattctgcctctcag	U44389
34827	ttctgcctctcagaaaacatattta	U44389
34828	ataacagtgcctcataaatagtaat	U44389
34829	gattcacttcgtgtgtttgcacttc	U44389
34830	cttcgtgtgtttgcacttcaaaagc	U44389
34831	aaagcttgtccgggacctgcaagcg	U44389
34832	tgtccgggacctgcaagcgaaccat	U44389
34833	ggacctgcaagcgaaccattccact	U44389
34834	cagccataactgaaacccagcacaa	U44389
34835	caagcgaaccattccactctttccg	U44389
34836	taactgaaacccagcacaagtgact	U44389
34837	aaacccagcacaagtgactcactca	U44389
34838	agcacaagtgactcactcagactgc	U44389
34839	tcactcagactgcatctttactagt	U44389
34840	agactgcatctttactagtgtagct	U44389
34841	catctttactagtgtagctttttca	U44389
34842	atgccatacgatgaaacctaccttc	U44389
34843	tatccagacccctgagcagtactac	AA002437
34844	gacccctgagcagtactacttttgc	AA002437
34845	aaactaccctggacactgctgagcc	AA002437
34846	ccctggacactgctgagcctatagg	AA002437
34847	acactgctgagcctataggttgcca	AA002437
34848	ctgagcctataggttgccatcagtt	AA002437
34849	gttgccatcagttatgctgaagcca	AA002437
34850	tatgctgaagccatggatcaacctc	AA002437
34851	gaagccatggatcaacctctttcct	AA002437
34852	ctttcctgtgtctcccagcgcacat	AA002437
34853	tgtgtctcccagcgcacatgtgcac	AA002437
34854	tcccagcgcacatgtgcacgcaagg	AA002437
34855	gtactacttttgctacaaggcaatt	AA002437
34856	cgcacatgtgcacgcaaggcagcct	AA002437
34857	catggttccctctggtcacagcctg	AA002437
34858	gttggccatggacggtcaataactg	AA002437
34859	cggtcaataactgctccacaagttt	AA002437
34860	ataactgctccacaagtttccacct	AA002437
34861	caagtttccacctgctggtcagcct	AA002437
34862	tccacctgctggtcagccttcctta	AA002437
34863	tgctggtcagccttccttaaactac	AA002437
34864	aagtctcacgcgacaccctgtacga	W29420
34865	tctcacgcgacaccctgtacgaggc	W29420
34866	tttctcgggcaccgtcaggctcaag	W29420
34867	caagttctcggtgtgcgttctgggg	W29420
34868	cgttctgggggaccagcagcactgt	W29420
34869	ggaccagcagcactgtgatgaagcc	W29420
34870	ccagcagcactgtgatgaagccaag	W29420
34871	tgatgaagccaaggccgtggatatc	W29420
34872	agccaaggccgtggatatccccaca	W29420
34873	ggatatccccacatggacatcgagg	W29420
34874	tatccccacatggacatcgaggcgc	W29420
34875	ccccacatggacatcgaggcgctca	W29420
34876	cacgcgacaccctgtacgaggcggt	W29420
34877	aagtcctgcacgggaaccagcgcaa	W29420
34878	tcctgcacgggaaccagcgcaacgc	W29420
34879	tgcacgggaaccagcgcaacgccgc	W29420
34880	ggaaccagcgcaacgccgcaagttt	W29420
34881	accagcgcaacgccgcaagtttctg	W29420
34882	acgccgcaagtttctggagacggtg	W29420
34883	cctgaagaactacgaccctcagaag	W29420
34884	cagccggagctggagggcagctact	AA002569
77421	agatacatcagtccaaaggacttta	AA087408
77422	gatacatcagtccaaaggactttaa	AA087408
77423	tacatcagtccaaaggactttaaag	AA087408
77424	taaagtcaccattggtaagattaat	AA087408
77425	aaagtcaccattggtaagattaatg	AA087408
77426	tgttcgtagtacaggccttagaatt	U48721
77427	tacaggccttagaattcatgaaagg	U48721
77428	gaagccttacaatgcttataaggaa	U48721
77429	gccttacaatgcttataaggaatgt	U48721
77430	gaattcatactggtctgaagcactg	U48721
77431	atactggtctgaagcactgttgata	U48721
77432	ctggtctgaagcactgttgatatga	U48721
77433	taagttcagccttcagtgtacactc	U48721
77434	gttcagccttcagtgtacactcaag	U48721
77435	cagccttcagtgtacactcaagatt	U48721
77436	gtgtacactcaagattcatattggc	U48721
77437	tcatattggctgaacccatcactgt	U48721
77438	agcctttcagtatcattaccaattt	U48721
77439	ctttcagtatcattaccaatttctt	U48721
77440	tcagtatcattaccaatttcttgga	U48721
77441	tcattaccaatttcttggacacttt	U48721
77442	tcatactggcaagaacccttatgaa	U48721
77443	caagaacccttatgaatgtagtgaa	U48721
77444	tattcacaatcttgagaaaccgtaa	U48721
77445	tcacaatcttgagaaaccgtaagaa	U48721
77446	gtgcaaggcccagccataggcttag	AA087249
77447	caaggcccagccataggcttagccc	AA087249
77448	ttgtacaccactggctcgtagtacg	AA087249
77449	tacaccactggctcgtagtacgcaa	AA087249
77450	accactggctcgtagtacgcaatgt	AA087249
77451	actggctcgtagtacgcaatgttgg	AA087249
77452	atggacgatcccatgccggcccaat	AA087249
77453	gatcccatgccggcccaatggggtg	AA087249
77454	atgccggcccaatggggtgaaagag	AA087249
77455	agaggccagcggcatttcgtccagt	AA087249
77456	cagcggcatttcgtccagtgggaag	AA087249
77457	gcatttcgtccagtgggaagttcgg	AA087249
77458	ggcccagccataggcttagcccagc	AA087249
77459	ccagccataggcttagcccagcatg	AA087249
77460	gccataggcttagcccagcatgggt	AA087249
77461	ataggcttagcccagcatgggtaca	AA087249
77462	ggcttagcccagcatgggtacacgt	AA087249
77463	ttagcccagcatgggtacacgtagg	AA087249
77464	gcccagcatgggtacacgtaggtgt	AA087249
77465	gtgttgttgtacaccactggctcgt	AA087249
77466	tccagccactcgagtcactgtcatt	U49350
77467	ttgctgttgtctccctggggtgcca	U49350
77468	catcaaactctgtctgtataaagta	U49350
77469	gtctctggctacactttctattcct	U49350
77470	tctggctacactttctattcctggg	U49350
77471	ttctattcctggggctgagaaaact	U49350
77472	tattcctggggctgagaaaactcct	U49350
77473	aactccttgacatcaaggggtcaag	U49350
77474	tccttgacatcaaggggtcaagaaa	U49350
77475	tgcaccgttggcttgaaggtatttt	U49350
77476	ttcttccagaatggtgttattgcat	U49350
77477	attttcttaatgtgatatggcaatg	U49350
77478	ctgttgtctccctggggtgccagga	U49350
77479	aggactcccggtgctgggctgctaa	U49350
77480	gggctgctaactgggtgttgctgac	U49350
77481	ctaactgggtgttgctgacatctca	U49350
77482	tgctgacatctcagtgctgctgagt	U49350
77483	tgacatctcagtgctgctgagttac	U49350
77484	catctcagtgctgctgagttacagg	U49350
77485	gtacatcaaactctgtctgtataaa	U49350
77486	ttacagaggcctccagggaggcaga	U49351
77487	gtcctgctctcctgacacatctttg	U49351
77488	ctcacctggtcactagagaatgtgg	U49351
120025	agccatggacacgtggatggcccag	W29456
120026	gccatggacacgtggatggcccagc	W29456
120027	ccatggacacgtggatggcccagcc	W29456
120028	tggacacgtggatggcccagccagc	W29456
120029	agccagccagccgcctggactgcag	W29456
120030	gccagccagccgcctggactgcagg	W29456
120031	ccagccagccgcctggactgcaggg	W29456
120032	ggaagacgccttctacagctgggag	W29456
120033	gaagacgccttctacagctgggaga	W29456
120034	aagacgccttctacagctgggagag	W29456
120035	gagtctgatcacaactgatggctgg	W29456
120036	agtctgatcacaactgatggctggt	W29456
120037	gtctgatcacaactgatggctggtg	W29456
120038	ctgatcacaactgatggctggtggg	W29456
120039	gacttggagccatggacacgtggat	W29456
120040	gttggacccccctgtgatgcttgatg	J00424
120041	ccccctgtgatgcttgatgctgcaa	J00424
120042	actctgcagctttcaaagctcgaac	J00424
120043	tctgcagctttcaaagctcgaacaa	J00424
120044	tgcagctttcaaagctcgaacaaaa	J00424
120045	cagctttcaaagctcgaacaaaagc	J00424
120046	tttcaaagctcgaacaaaagctcga	J00424
120047	aaagctcgaacaaaagctcgaagca	J00424
120048	agctcgaacaaaagctcgaagcaaa	J00424
120049	aaagctcgaagcaaatgccgagata	J00424
120050	tttgctacttctaatgtatataagc	J00424
120051	tgctacttctaatgtatataagctt	J00424
120052	ccctgtgatgcttgatgctgcaaca	J00424
120053	tgcttgatgctgcaacacttaaaac	J00424
120054	cttgatgctgcaacacttaaaacca	J00424
120055	tgatgctgcaacacttaaaaccatg	J00424
120056	atgctgcaacacttaaaaccatgaa	J00424
120057	tgcaacacttaaaaccatgaagatt	J00424
120058	tatataactctgcagctttcaaagc	J00424
120059	tataactctgcagctttcaaagctc	J00424
120060	ccgtcaccttaagtgccacaaccag	W29556
120061	tcaccttaagtgccacaaccaggta	W29556
120062	cttcacccagcggtgttccttggag	W29556
120063	gaagatccacggggtacagcagcag	W29556
120064	gatccacggggtacagcagcagtat	W29556
120065	acagcagcagtatgcctacaagcag	W29556
120066	gtatgcctacaagcagcgtcgcgac	W29556
120067	tgcctacaagcagcgtcgcgacaaa	W29556
120068	ctacaagcagcgtcgcgacaaactc	W29556
120069	gcagcgtcgcgacaaactctacgtg	W29556
120070	gcgtcgcgacaaactctacgtgtgt	W29556
120071	tcgcgacaaactctacgtgtgtgag	W29556
120072	gtgccacaaccaggtaaagaggcac	W29556
120073	gaggcacctgtgcaccttctgcggc	W29556
120074	cctgtgcaccttctgcggcaagggc	W29556
120075	gtgcaccttctgcggcaagggcttc	W29556
120076	caccttctgcggcaagggcttcaat	W29556
120077	caatgacaccttcgacctgaagagg	W29556
120078	cttcgacctgaagaggcacgtacgc	W29556
120079	taacaaggccttcacccagcggtgt	W29556
120080	gcccatctgcctgccgaacaatggg	D10445
120081	ctgcctgccgaacaatgggctcgct	D10445
120082	caccaacaactatggcatctacacc	D10445
120083	caactatggcatctacaccaaagtg	D10445
120084	tggcatctacaccaaagtgggaagc	D10445
120085	ctacctcaaatggattcacagttac	D10445
120086	gattcacagttacattggggaaaag	D10445
120087	ctcccttaagagccagaagctatag	D10445
120088	gctcacctctggaccctagaagtca	D10445
120089	ctctggaccctagaagtcactcttg	D10445
120090	gaagtcactcttggagtaaggctgg	D10445
120091	actcttggagtaaggctgggctagt	D10445
120092	tcagcaggagctcactcaggctggc	D10445

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
34885	ggcagctactgtgtgacctcccatg	AA002569	77489	acatcgtgtctgcaccaacatcagg	U49351	120093	cactcaggctggccaggagacagtg	D10445
34886	agcgcaccaccgggtagttggcctg	AA002569	77490	caccaacatcaggctgtgcagccac	U49351	120094	catccctttggttgctcgaaatgag	D10445
34887	tagttggcctgggactacagaggct	AA002569	77491	caacatcaggctgtgcagccactgc	U49351	120095	tgctcgaaatgagtgcgtggaggtc	D10445
34888	agttggcctgggactacagaggctc	AA002569	77492	ctgcagccgcaaccctgcagagaca	U49351	120096	catgctgtgtgcaggcatcattggg	D10445
34889	gttggcctgggactacagaggctcg	AA002569	77493	cagccgcaaccctgcagagacagag	U49351	120097	gaacacgagagacgcctgtgatggt	D10445
34890	ttggcctgggactacagaggctcgt	AA002569	77494	ccgcaaccctgcagagacagagctg	U49351	120098	gagagacgcctgtgatggtgacagt	D10445
34891	ggactacagaggctcgttgggaaga	AA002569	77495	caaccctgcagagacagagctggtg	U49351	120099	tgggcacaccaacaactatggcatc	D10445
34892	gactacagaggctcgttgggaagaa	AA002569	77496	gccttcaccaggttcccaagacttg	U49351	120100	gctatgccttgtttcagataccaca	D13509
34893	actacagaggctcgttgggaagaag	AA002569	77497	ttcaccaggttcccaagacttgaga	U49351	120101	ccttgtttcagataccacagacctg	D13509
34894	agctactgtgtgacctcccatgatt	AA002569	77498	ctgctctcctgacacatctttgagt	U49351	120102	gaaacagctaccaatacacttggat	D13509
34895	gctactgtgtgacctcccatgattc	AA002569	77499	ctctcctgacacatctttgagtttt	U49351	120103	acagctaccaatacacttggattgg	D13509
34896	ctactgtgtgacctcccatgattcc	AA002569	77500	tcctgacacatctttgagtttttcc	U49351	120104	aatacacttggattgggctccatga	D13509
34897	actagaataggctccagccgcggcc	AA002569	77501	gagtttttcccaccgtgttgctgca	U49351	120105	ggaacccatctactgccttagaccg	D13509
34898	ctagaataggctccagccgcggccc	AA002569	77502	tgttgctgcatgcgcccctgaagct	U49351	120106	catctactgccttagaccgtgcttt	D13509
34899	tagaataggctccagccgcggccct	AA002569	77503	atgcgcccctgaagctctgtgttct	U49351	120107	ccttagaccgtgctttctgtggcag	D13509
34900	agaataggctccagccgcggcccta	AA002569	77504	cgcccctgaagctctgtgttcttag	U49351	120108	tagaccgtgctttctgtggcagctt	D13509
34901	taggctccagccgcggccctactga	AA002569	77505	ccctgaagctctgtgttcttaggag	U49351	120109	tctgtggcagcttgtcaagagcttc	D13509
34902	ctcccactgccaggaggctggcgct	U20282	77506	acgagactcgcacggtgacccagtt	U57345	120110	tgaagttgccctatgtctgcaaatt	D13509
34903	tggcgctactttgggctgctacaac	U20282	77507	ctcgcacggtgacccagttccactt	U57345	120111	tgccctatgtctgcaaatttactgg	D13509
34904	aatggaatcctcctgctgtgcaacc	U20282	77508	tgaagctggagctggcgggacccca	U57345	120112	agataccacagacctggtttgatgc	D13509
34905	acttccttcctatgttctcacatca	U20282	77509	accacgagtgcttccagaaccgcaa	U57345	120113	taccacagacctggtttgatgcaga	D13509
34906	ttcctatgttctcacatcacactca	U20282	77510	agtgcttccagaaccgcaacaggat	U57345	120114	aactggcctgccaaaagaggcctgg	D13509
34907	cacatcacactcaaactggtgacac	U20282	77511	tccagaaccgcaacaggatatcagt	U57345	120115	acctcgtatctgtgctcaatagcgc	D13509
34908	acactcaaactggtgacaccacagg	U20282	77512	acaggatatcagtcctgcatcttct	U57345	120116	tcgtatctgtgctcaatagcgctga	D13509
34909	tgtttccatggacacaatctccata	U20282	77513	tcctgcatcttctgtgtagtaacag	U57345	120117	tatctgtgctcaatagcgctgaggc	D13509
34910	catggacacaatctccatagtgaca	U20282	77514	atcttctgtgtagtaacagggtctt	U57345	120118	atagcgctgaggcttcattcttgtc	D13509
34911	cacaatctccatagtgacaatgtgg	U20282	77515	tcgggctccacagtcagtgcaggtg	U57345	120119	cttcattcttgtcctccatggtgaa	D13509
34912	gaaaggtgcgctatccctttgatt	U20282	77516	tcatgtgtacttctgattgaccaaa	U57345	120120	ctcctcaactatttctctttgacca	K00083
34913	atttgttccaatgacaatgaaattt	U20282	77517	gtacttctgattgaccaaatagcac	U57345	120121	ttattctttctgactaattagccaa	K00083
34914	tactttgggctgctacaacaaggct	U20282	77518	tccacttcctgagttggtatgacca	U57345	120122	tccgggccagcgctttaacagcagg	K00083
34915	caaggctgctccttccgataccatt	U20282	77519	cctccacgaggtcactcctggattt	U57345	120123	ctttaacagcaggccagacagcact	K00083
34916	tgctccttccgataccattacccat	U20282	77520	cgaggtcactcctggatttccgcag	U57345	120124	cagcaggccagacagcactcgaatg	K00083
34917	ttccgataccattacccatgtgcca	U20282	77521	gccgctcttgtccgatcattgtcca	U57345	120125	cagcactcgaatgtgtcaggtagta	K00083
34918	taccattacccatgtgccattgacg	U20282	77522	cgatcattgtccattgcagtgacgg	U57345	120126	aacaggctgtccctgaaagaaagca	K00083
34919	tgtgccattgacgcagattgtttgc	U20282	77523	cgaccctggagcacttgagggacca	U57345	120127	gacttgacactggtcttccctatac	K00083
34920	tgtttgctgcatgaggagaatttct	U20282	77524	agagaccaggcatggtccagacaaa	U57345	120128	gtcttccctatacagctgaaaactg	K00083
34921	aggtgccccaagcacaaggtgagac	U20282	77525	cccagtaggcgctgaagctggagct	U57345	120129	caaataactcgctcatttatagttt	K00083
34922	gatgacctttggagctgttagcag	AA002604	77526	ggcagactccggggtgagatggagt		120130	atagtttatcactgtctaattgcat	K00083
34923	atgacctttggagctgttagcaga	AA002604	77527	cagactccggggtgagatggagtgg		120131	tatcactgtctaattgcatatgaat	K00083
34924	agtaaactcaaggatctcggtcatc	AA002604	77528	ctctggtatgccatcgccaaaaagg		120132	actaattagccaagactgtgattgc	K00083
34925	taaactcaaggatctcggtcatcca	AA002604	77529	tatgccatcgccaaaaaggaccccg		120133	tagccaagactgtgattgcgggggtt	K00083
34926	aaactcaaggatctcggtcatccag	AA002604	77530	tgccatcgccaaaaaggaccccgag		120134	agactgtgattgcgggggttgtatct	K00083
34927	aactcaaggatctcggtcatccagt	AA002604	77531	gcaagataacatcatcgctgagttt		120135	acagccaagcggctgactgaactca	K00083
34928	ctcaaggatctcggtcatccagttg	AA002604	77532	aagataacatcatcgctgagtttttc		120136	ctgactgaactcagattgtagcttg	K00083
34929	caaggatctcggtcatccagttgaa	AA002604	77533	gataacatcatcgctgagttttctg		120137	tagcttgtacctttacttcactgac	K00083
34930	aggatctcggtcatccagttgaaga	AA002604	77534	taacatcatcgctgagttttctgtg		120138	ttacttcactgaccaataagaaaca	K00083
34931	ggatctcggtcatccagttgaagaa	AA002604	77535	atcatcgctgagttttctgtggacg		120139	agtgaccccgggagtgctgctgatg	K00083
34932	ctcggtcatccagttgaagaagaag	AA002604	77536	catcgctgagttttctgtggacgag		120140	ctgcagtttcagctccactgagcca	W29533
34933	tcggtcatccagttgaagaagaaga	AA002604	77537	tcatatgagcgccacagccaaggga		120141	gcagtttcagctccactgagccatc	W29533
34934	tgacctttggagctgttagcagat	AA002604	77538	gactccggggtgagatggagtgggt		120142	tccactgagccatcataggaagcag	W29533
34935	acctttggagctgttagcagatca	AA002604	77539	tgagcagcttccgagtcaaggagaa		120143	ccactgagccatcataggaagcagg	W29533
34936	cctttggagctgttagcagatcaa	AA002604	77540	cagcttccgagtcaaggagaacttc		120144	cactgagccatcataggaagcaggg	W29533
34937	ctttggagctgttagcagatcaag	AA002604	77541	gagaacttcgacaaggctcgtttct		120145	tcttttcttccgttctcgcggatct	W29533
34938	tcagaaaatcctgtcactgaagagt	AA002604	77542	acttcgacaaggctcgtttctctgg		120146	tttcttccgttctcgcggatctcct	W29533
34939	cagaaaatcctgtcactgaagagta	AA002604	77543	ttcgacaaggctcgtttctctgggc		120147	tcgcggatctcctggaggaaaacct	W29533
34940	aaatcctgtcactgaagagtaaact	AA002604	77544	tctgggctctggtatgccatcgcca		120148	agagccgtgaggtcacaggtcagca	W29533
34941	aatcctgtcactgaagagtaaactc	AA002604	77545	tgggctctggtatgccatcgccaaa		120149	tgaggtcacaggtcagcaggatggt	W29533
34942	ggtccagacagtcctctactgcgat	AA002605	77546	ctagtccaactccgagtacaagaga	AA097087	120150	aggtcacaggtcagcaggatggtga	W29533
34943	ccagacagtcctctactgcgatttc	AA002605	77547	tagtccaactccgagtacaagagaa	AA097087	120151	tcacaggtcagcaggatggtgagga	W29533
34944	tatcaccaaagtcctgaaggggaag	AA002605	77548	tcactgacctccaagaccaaaacca	AA097087	120152	cagtttcagctccactgagccatca	W29533
34945	gctgagcttgccaggcataaccctg	AA002605	77549	cactgacctccaagaccaaaaccag	AA097087	120153	agtttcagctccactgagccatcat	W29533
34946	cttgccaggcataaccctggcctca	AA002605	77550	tgacctccaagaccaaaaccagaag	AA097087	120154	gtttcagctccactgagccatcata	W29533
34947	ctcaccagccttctctgaggcaggg	AA002605	77551	cctccaagaccaaaaccagaagatg	AA097087	120155	ttcagctccactgagccatcatagg	W29533
34948	accagccttctctgaggcagggcag	AA002605	77552	ctccaagaccaaaaccagaagatgg	AA097087	120156	tcagctccactgagccatcatagga	W29533
34949	agccttctctgaggcagggcaggag	AA002605	77553	tccaagaccaaaaccagaagatggt	AA097087	120157	cagctccactgagccatcataggaa	W29533
34950	cttctctgaggcagggcaggaggca	AA002605	77554	ccaagaccaaaaccagaagatggtg	AA097087	120158	agctccactgagccatcataggaag	W29533
34951	ctgctggagcccgagagccttccat	AA002605	77555	caagaccaaaaccagaagatggtgt	AA097087	120159	ctccactgagccatcataggaagca	W29533
34952	gagcccgagagccttccatccagag	AA002605	77556	agaccaaaaccagaagatggtgttg	AA097087	120160	aaggagtctctcatggggtatagac	J05265

TABLE 1

SEQ ID NO	sequence	DBAxnID
34953	cccgagagccttccatccagagctg	AA002605
34954	gacagtcctctactgcgatttcttc	AA002605
34955	cgagagccttccatccagagctgac	AA002605
34956	agtcctctactgcgatttcttctac	AA002605
34957	cctctactgcgatttcttctacctc	AA002605
34958	ctgcgatttcttctacctctatatc	AA002605
34959	cgatttcttctacctctatatcacc	AA002605
34960	tttcttctacctctatatcaccaaa	AA002605
34961	cctctatatcaccaaagtcctgaag	AA002605
34962	ctatatcaccaaagtcctgaagggg	AA002605
34963	cgcgccatcggcagcaagatcggca	AA002613
34964	gcgccatcggcagcaagatcggcac	AA002613
34965	ccggtcatgaagcgcgccagtgcca	AA002613
34966	cggtcatgaagcgcgccagtgccat	AA002613
34967	ggtcatgaagcgcgccagtgccatc	AA002613
34968	gtcatgaagcgcgccagtgccatcg	AA002613
34969	tcatgaagcgcgccagtgccatcgt	AA002613
34970	atgaagcgcgccagtgccatcgtca	AA002613
34971	cgccatcggcagcaagatcggcacc	AA002613
34972	gccatcggcagcaagatcggcaccg	AA002613
34973	ccatcggcagcaagatcggcaccgg	AA002613
34974	catcggcagcaagatcggcaccggc	AA002613
34975	ccccaactgggagccggtcatgaag	AA002613
34976	cccaactgggagccggtcatgaagc	AA002613
34977	ccaactgggagccggtcatgaagcg	AA002613
34978	caactgggagccggtcatgaagcgc	AA002613
34979	ctgtaccccagggccttgcatttgc	U36778
34980	cccagggccttgcatttgctaatgg	U36778
34981	atagacacaatactgcataaacagc	U36778
34982	acaatactgcataaacagcagaact	U36778
34983	cagaactttcattgccttgggttct	U36778
34984	tgccttgggttcttattggtgggat	U36778
34985	ctcacacaaagtgctatagcactga	U36778
34986	aactttatacctcagtccatgaggt	U36778
34987	gtgtactcattgattcacagttttt	U36778
34988	attcacagtttttgtgtatagatac	U36778
34989	attatatcgcatagcttccactaac	U36778
34990	tcgcatagcttccactaacctaaga	U36778
34991	catttgctaatgggctccattactg	U36778
34992	ctaatgggctccattactgagcctg	U36778
34993	ggctccattactgagcctgaccact	U36778
34994	gaccactgagctatatcctcaactg	U36778
34995	tgagctatatcctcaactgtagatt	U36778
34996	ggtctcaggtcaatctgtagcctag	U36778
34997	acttagaattctgccttcctcgtct	U36778
34998	ctcgtctggctcaggtatgcacttt	U36778
34999	gaccaatccagctgattcaaaacca	AA002621
35000	accaatccagctgattcaaaaccag	AA002621
35001	acatcattcatggcagtgattcagt	AA002621
35002	tcattcatggcagtgattcagtgga	AA002621
35003	cattcatggcagtgattcagtggag	AA002621
35004	ttcatggcagtgattcagtggagag	AA002621
35005	tcatggcagtgattcagtggagagt	AA002621
35006	aagagatccatctggtggtttaagc	AA002621
35007	agagatccatctggtggtttaagcc	AA002621
35008	agatccatctggtggtttaagcccg	AA002621
35009	aaactgatcgacgtacaaagtcttg	AA002621
35010	gtacaaagtcttgtgccccatgacc	AA002621
35011	aatccagctgattcaaaaccaggca	AA002621
35012	aaagtcttgtgccccatgacctggg	AA002621
35013	tccagctgattcaaaaccaggcacc	AA002621
35014	agctgattcaaaaccaggcaccatc	AA002621
35015	tcaaaaccaggcaccatccggtggg	AA002621
35016	ggatttctgcattcaagttggcagg	AA002621
35017	atttctgcattcaagttggcaggaa	AA002621
35018	tctgcattcaagttggcaggaacat	AA002621
35019	ctgcattcaagttggcaggaacatc	AA002621
35020	gcctcagcggcttatgggctcacct	AA002627
77557	gtccaactccgagtacaagagaaag	AA097087
77558	tccaactccgagtacaagagaaagt	AA097087
77559	aaagctaatcactgacctccaagac	AA097087
77560	aagctaatcactgacctccaagacc	AA097087
77561	agctaatcactgacctccaagacca	AA097087
77562	gctaatcactgacctccaagaccaa	AA097087
77563	ctaatcactgacctccaagaccaaa	AA097087
77564	taatcactgacctccaagaccaaaa	AA097087
77565	cctccagagctcttagcgacgtaag	AA087554
77566	cagagctcttagcgacgtaagatcc	AA087554
77567	cgagatcccacagtggccactttgt	AA087554
77568	agatcccacagtggccactttgtcg	AA087554
77569	cacagtggccactttgtcgctcaag	AA087554
77570	gtggccactttgtcgctcaagagtg	AA087554
77571	ggccactttgtcgctcaagagtgtg	AA087554
77572	actttgtcgctcaagagtgtgagag	AA087554
77573	tttgtcgctcaagagtgtgagagtc	AA087554
77574	gaggcctttgaacatcccagatgtt	AA087554
77575	cctttgaacatcccagatgttgtac	AA087554
77576	tttgaacatcccagatgttgtacgg	AA087554
77577	gagctcttagcgacgtaagatccct	AA087554
77578	aacatcccagatgttgtacggctga	AA087554
77579	ttagcgacgtaagatccctgcttcg	AA087554
77580	cgacgtaagatccctgcttcgagaa	AA087554
77581	acgtaagatccctgcttcgagaatg	AA087554
77582	tgcggtgctatgggacggtgtacaa	AA087554
77583	tgtacaaacccgagatcccacagtg	AA087554
77584	caaacccgagatcccacagtggcca	AA087554
77585	aacccgagatcccacagtggccact	AA087554
77586	tgtgtgccttaaaactctatgtgaa	D87471
77587	atgatcactacccaaatggaaattg	D87471
77588	ctctcagtttcgcaaggcttgtgga	D87471
77589	gtttcgcaaggcttgtggaagaaca	D87471
77590	ataagtttcaagctgctgtcataga	D87471
77591	ttcaagctgctgtcatagaagaact	D87471
77592	gggatcttccagtgacacgcacttt	D87471
77593	ttccagtgacacgcactttgattga	D87471
77594	tgacacgcactttgattgactggca	D87471
77595	actggcaacggatcctctctgactt	D87471
77596	aacggatcctctctgacttgaatct	D87471
77597	tcctctctgacttgaatctggtgat	D87471
77598	gcattgaagaccacagctatgacaa	D87471
77599	aagaccacagctatgacaatggaga	D87471
77600	ttgtgcaagctcacttctttaggtg	D87471
77601	aagctcacttctttaggtgtgtcaa	D87471
77602	gtgtcaaccttcatattgaagtctc	D87471
77603	tcaatcaagcccagttggctctcag	D87471
77604	aagcccagttggctctcagtttcgc	D87471
77605	agttggctctcagtttcgcaaggct	D87471
77606	ttacgcgtcagcaacaagctaccta	AA087559
77607	cgcgtcagcaacaagctacctaggc	AA087559
77608	gcttcaggcgtcatgacaaactaca	AA087559
77609	gtcatgacaaactacattcccatgt	AA087559
77610	atgacaaactacattcccatgtgat	AA087559
77611	aactacattcccatgtgatggcgta	AA087559
77612	tacattcccatgtgatggcgtatct	AA087559
77613	attcccatgtgatggcgtatctcct	AA087559
77614	atgtgatggcgtatctcctgcattg	AA087559
77615	tgatggcgtatctcctgcattgggg	AA087559
77616	tggcgtatctcctgcattggggcca	AA087559
77617	cgtatctcctgcattggggccaacc	AA087559
77618	gtcagcaacaagctacctaggcccg	AA087559
77619	gagtcctgctgttcccctgcgccat	AA087559
77620	ggtctttgcaaggcccgatgcacac	AA087559
77621	ctttgcaaggcccgatgcacacctg	AA087559
77622	tgcaaggcccgatgcacacctgctt	AA087559
77623	tgcacacctgcttcaggcgtcatga	AA087559
77624	acacctgcttcaggcgtcatgacaa	AA087559
120161	gagtctctcatggggtatagactca	J05265
120162	aggatcctgtgggcactgctgggtc	J05265
120163	tgggcactgctgggtccactctgca	J05265
120164	gcactgctgggtccactctgcaaat	J05265
120165	ctgctgggtccactctgcaaatgcc	J05265
120166	ccactctgcaaatgccaagactatc	J05265
120167	ctctgcaaatgccaagactatcaaa	J05265
120168	catctgtgagtttgcctcggctagc	J05265
120169	tgagtttgcctcggctagccttgct	J05265
120170	tcacacaccttgtatatgtaagttc	J05265
120171	ctcaaagccagccgtaagtctatgg	J05265
120172	tctctcatggggtatagactcacag	J05265
120173	tatagactcacaggagaggcccagg	J05265
120174	aggcctgctggtggtaaagaaactg	J05265
120175	cttttaggcagtttttctgcattga	J05265
120176	attagctaatactaaccacatagaa	J05265
120177	agctaatactaaccacatagaatat	J05265
120178	taaccacatagaatatcagacttag	J05265
120179	ataaggatcctgtgggcactgctgg	J05265
120180	gtatcttcactcagagttcctttag	W29537
120181	tcactcagagttcctttagcttgca	W29537
120182	tactccatcaccagaaagacagagt	W29537
120183	ggcaattcctgaacatcatagagcg	W29537
120184	aattcctgaacatcatagagcgcta	W29537
120185	acatcatagagcgctacgatgtttt	W29537
120186	tcatagagcgctacgatgttttcat	W29537
120187	gctacgatgttttcatgctgaagct	W29537
120188	ttttcatgctgaagctcctttaaga	W29537
120189	tgctgaagctcctttaagatttta	W29537
120190	atttcctttccaagcagaatttgtg	W29537
120191	tcccaatcagttttctggcggtgcg	W29537
120192	agagttcctttagcttgcaaataat	W29537
120193	gttcctttagcttgcaaataatctg	W29537
120194	gcttgcaaataatctgccaggtctc	W29537
120195	tgcaaataatctgccaggtctccac	W29537
120196	tctgccaggtctccaccattgcaat	W29537
120197	gccaggtctccaccattgcaatact	W29537
120198	aggtctccaccattgcaatactcca	W29537
120199	ttgcaatactccatcaccagaaaga	W29537
120200	accagtcgctctgagctcatcactt	J00475
120201	cgctctgagctcatcacttgacact	J00475
120202	cagtggcttcgtcaccttcatcaag	J00475
120203	cttcgtcaccttcatcaaggtgaag	J00475
120204	agcagaatcctgcaactacagagaa	J00475
120205	aaagtgctttccctcaacatgaagc	J00475
120206	ctttccctcaacatgaagccaacta	J00475
120207	ataccttctatgcagagagaaatgc	J00475
120208	acctagactcccagactcaaaatgc	J00475
120209	actcccagactcaaaatgcctagta	J00475
120210	atccttggctataggcaaagcaggt	J00475
120211	tgttctgctgctccagccctactca	J00475
120212	atcacttgacacttacacatgtgtg	J00475
120213	gccctcatcattccataagcatgct	J00475
120214	tgacacttacacatgtgtggtggaa	J00475
120215	ttacacatgtgtggtggaacatgag	J00475
120216	acatgaggcctcaaagacaaagctt	J00475
120217	aaagcttaatgccagcaagagccta	J00475
120218	cagctacatggacttagaggaggag	J00475
120219	cctgctcacactgctctacagtggc	J00475
120220	gctctacagtggcttcgtcaccttc	J00475
120221	taccccctgtatgatatctcagcaa	W29447
120222	cccctgtatgatatctcagcaactg	W29447
120223	caagcacggacctcctacattgccg	W29447
120224	acctcctacattgccgaggagatcc	W29447
120225	tcctacattgccgaggagatccagt	W29447
120226	atccagtggggacaccgcttcgtgt	W29447
120227	caccgcttcgtgtcaattgtgactg	W29447
120228	cgcttcgtgtcaattgtgactgagg	W29447

TABLE 1

SEQ ID NO	sequence	DBAxnID
35021	ctcagcggcttatgggctcacctac	AA002627
35022	gtccatcgaaacgagctcagacacg	AA002627
35023	ccatcgaaacgagctcagacacgag	AA002627
35024	atcgaaacgagctcagacacgagta	AA002627
35025	cgaaacgagctcagacacgagtacc	AA002627
35026	acgagctcagacacgagtaccccgt	AA002627
35027	tcagacacgagtaccccgtctccgt	AA002627
35028	tccgtcacccgaggcgacaaggcca	AA002627
35029	tcacccgaggcgacaaggccatctc	AA002627
35030	aaggccatctcgcttcggaccatcc	AA002627
35031	atctcgcttcggaccatcctcggcg	AA002627
35032	gcggcttatgggctcacctacccgc	AA002627
35033	cccgagcagacacatcctcgaagcg	AA002627
35034	cgagcagacacatcctcgaagcgtg	AA002627
35035	cagacacatcctcgaagcgtgtcca	AA002627
35036	gacacatcctcgaagcgtgtccatc	AA002627
35037	cacatcctcgaagcgtgtccatcga	AA002627
35038	aagcgtgtccatcgaaacgagctca	AA002627
35039	gcgtgtccatcgaaacgagctcaga	AA002627
35040	ctaagccaggttgccatgaagtgtc	L10244
35041	cgctgcagcagtatgcacttcttgg	L10244
35042	tctcagcttcccttgctttctatct	L10244
35043	tctatcttgtgtgtagtgaaataat	L10244
35044	tagagcgagcacccattccaaagct	L10244
35045	gagcacccattccaaagctttatta	L10244
35046	ccattccaaagctttattaccagtg	L10244
35047	caaagctttattaccagtgacgttg	L10244
35048	tttattaccagtgacgttgttgcat	L10244
35049	aattcttgaacatcttttgatgaag	L10244
35050	tcattcttgtgagtcatttaaatgt	L10244
35051	atgtacacactggtacttagagttt	L10244
35052	agcagtatgcacttcttggtagcag	L10244
35053	ccatctatcaacttctacaaaagaa	L10244
35054	atcaacttctacaaaagaagaggtg	L10244
35055	gcttcggatctgtccagtgaagagg	L10244
35056	gatctgtccagtgaagagggatgga	L10244
35057	tagacaatgacaacctccattgtgc	L10244
35058	atgacaacctccattgtgctttaga	L10244
35059	acctccattgtgctttagaataatt	L10244
35060	ttcattatgattttaccaggagctg	U44731
35061	ttcctcggctcactaagtagttagt	U44731
35062	cttcctcggagtctaattctgtgtc	U44731
35063	cctcggagtctaattctgtgtcagt	U44731
35064	agtctaattctgtgtcagttcatta	U44731
35065	ctaattctgtgtcagttcattacct	U44731
35066	attctgtgtcagttcattacctatt	U44731
35067	ctggcgtccataaatcctgtcaaat	U44731
35068	tccataaatcctgtcaaatttcagt	U44731
35069	ggcatatgtatcccagttgtacact	U44731
35070	atatgtatcccagttgtacactaca	U44731
35071	tgtatcccagttgtacactacagat	U44731
35072	ctcggctcactaagtagttagtcta	U44731
35073	ccaggcttctgttattttgatacca	U44731
35074	tattttgataccaaacttttgctg	U44731
35075	tttgataccaaacttttgctgtga	U44731
35076	gataccaaacttttgctgtgattt	U44731
35077	tacacattctagtttaataaccacg	U44731
35078	tgtcagatactgcttcctcggagtc	U44731
35079	cagatactgcttcctcggagtctaa	U44731
35080	ggactttctcatcgtgccccacgaa	AA002587
35081	ctttctcatcgtgccccacgaaagt	AA002587
35082	gtaccgctatggaggagcctgacag	AA002587
35083	aggagcctgacagcctggaggtact	AA002587
35084	agcctgacagcctggaggtactggt	AA002587
35085	ctgacagcctggaggtactggtgaa	AA002587
35086	acagcctggaggtactggtgaagac	AA002587
35087	tgaagaccctggactctcagactcg	AA002587
35088	agaccctggactctcagactcggac	AA002587
77625	cctgcttcaggcgtcatgacaaact	AA087559
77626	tgctaccctctcattgggagttctt	U43206
77627	tgctgccagccgtcacgattctgga	U43206
77628	agactcccatcttagctgagccctg	U43206
77629	ctcccatcttagctgagccctgact	U43206
77630	tgtccagatcaggtggctgcgtagg	U43206
77631	agaacagtgctgctgtggagagaga	U43206
77632	agccccttgcttctcagtggggtag	U43206
77633	ggcaaaagtcacctgagctgccgag	U43206
77634	ctgagctgccgagtgtgttgatcct	U43206
77635	agctgccgagtgtgttgatcctcct	U43206
77636	gtgtgttgatcctccttgtcaagta	U43206
77637	tgttgatcctccttgtcaagtacaa	U43206
77638	cagccgtcacgattctggatagtcc	U43206
77639	ccgtcacgattctggatagtcccat	U43206
77640	ccatcccaggttctgtttgattgag	U43206
77641	actccgccaggatcaggtctagagg	U43206
77642	tgtccagaaccgggcacaatggggt	U43206
77643	cccaactgagacaactcaagactcc	U43206
77644	gacaactcaagactcccatcttagc	U43206
77645	aactcaagactcccatcttagctga	U43206
77646	tcatgaagtccatcatccctagtgg	AA087605
77647	atgaagtccatcatccctagtggtt	AA087605
77648	ttatcgcttaactcccttgactgat	AA087605
77649	atcgcttaactcccttgactgatgg	AA087605
77650	cgcttaactcccttgactgatggca	AA087605
77651	taactcccttgactgatggcatcat	AA087605
77652	tcccttgactgatggcatcatcctc	AA087605
77653	ctgatggcatcatcctctactagga	AA087605
77654	gatggcatcatcctctactaggatg	AA087605
77655	atcatcctctactaggatgttttct	AA087605
77656	catcctctactaggatgttttcttc	AA087605
77657	tcctctactaggatgttttcttcaa	AA087605
77658	gaagtccatcatccctagtggttat	AA087605
77659	agtccatcatccctagtggttatgg	AA087605
77660	catcatccctagtggttatggctgg	AA087605
77661	atccctagtggttatggctgggatc	AA087605
77662	tggcatgtacttatcgcttaactcc	AA087605
77663	gcatgtacttatcgcttaactccct	AA087605
77664	atgtacttatcgcttaactcccttg	AA087605
77665	acttatcgcttaactcccttgactg	AA087605
77666	ggcgccaggctcaactaggagtcgc	AA087616
77667	gcgccaggctcaactaggagtcgct	AA087616
77668	ccagtctctttggaaccagagaaat	AA087616
77669	gtctctttggaaccagagaaatgag	AA087616
77670	agttgttactactatcccactattg	AA087616
77671	ttgttactactatcccactattgga	AA087616
77672	ttactactatcccactattggattt	AA087616
77673	tactactatcccactattggattta	AA087616
77674	ctactatcccactattggatttaat	AA087616
77675	tactatcccactattggatttaatg	AA087616
77676	ctatcccactattggatttaatgtg	AA087616
77677	tatcccactattggatttaatgtgg	AA087616
77678	ccaggctcaactaggagtcgctgcc	AA087616
77679	gtgacatacaaaaatctcaaattcc	AA087616
77680	ggctcaactaggagtcgctgccgag	AA087616
77681	ctcaactaggagtcgctgccgagtc	AA087616
77682	aactaggagtcgctgccgagtcccg	AA087616
77683	actaggagtcgctgccgagtcccgg	AA087616
77684	cggttcatcatgggtggctttttct	AA087616
77685	tcatcatgggtggctttttctgaag	AA087616
77686	ttccagtctctttggaaccagagaa	AA087616
77687	aactctgacgtggtgacatggaccc	D21826
77688	gtgacatggaccccacgacctggcg	D21826
77689	aattacaacctggtggtcaggatga	D21826
77690	aacctggtggtcaggatgattgaaa	D21826
77691	gaagatttcagccctttttcctggag	D21826
77692	atccatagccgggtggatgtcatca	D21826
120229	ttcgtgtcaattgtgactgaggagg	W29447
120230	gtgtactctgtggactattccaaat	W29447
120231	agagtggctgcgccaagatgcagtg	W29447
120232	gcgccaagatgcagtgcccgggagc	W29447
120233	tatgatatctcagcaactgaccttg	W29447
120234	gatatctcagcaactgaccttgcca	W29447
120235	atctcagcaactgaccttgccaatc	W29447
120236	actgaccttgccaatcaagacctgg	W29447
120237	gaccttgccaatcaagacctggagg	W29447
120238	gccaatcaagacctggaggtcatag	W29447
120239	acaggcatcaccacacaagcacgga	W29447
120240	acacaagcacggacctcctacattg	W29447
120241	aatatcgctatcacaatcaatgtag	W29690
120242	gtagtcatactgtccatctgattga	W29690
120243	gaatcacagtcacgttatgtcgcat	W29690
120244	tcacagtcacgttatgtcgcatccc	W29690
120245	cagtcacgttatgtcgcatccctga	W29690
120246	tgcgagcagccatctctcgagactg	W29690
120247	ccatctctcgagactggtggataac	W29690
120248	tctctcgagactggtggataactcc	W29690
120249	ggtggataactcccacaagagacga	W29690
120250	ggataactcccacaagagacgagta	W29690
120251	tagataatcctatcaagtcgtctgt	W29690
120252	ataatcctatcaagtcgtctgtgta	W29690
120253	atactgtccatctgattgagctcag	W29690
120254	tccatctgattgagctcagcttcct	W29690
120255	atctgattgagctcagcttcctctg	W29690
120256	gcttcctctgacatctgcgcagcat	W29690
120257	tctgacatctgcgcagcatctcttc	W29690
120258	cttgaggtcctcttcatagaatcac	W29690
120259	gtcctcttcatagaatcacagtcac	W29690
120260	ctcttcatagaatcacagtcacgtt	W29690
120261	gcaccttaactggcacaattgccaa	J00475
120262	taactggcacaattgccaaagtcac	J00475
120263	tgacaagcgtgttgcgtgtatcagc	J00475
120264	gtgaccagtactcctgcatggtggg	J00475
120265	cctgcatggtgggccacgaggcctt	J00475
120266	tgcccatgaacttcacccagaagac	J00475
120267	tgaacttcacccagaagaccatcga	J00475
120268	tcacccagaagaccatcgaccgtct	J00475
120269	gtaaacccaccaatgtcagcgtgtc	J00475
120270	atgtcagcgtgtctgtgatcatgtc	J00475
120271	ctactcctagaataaactctgtgct	J00475
120272	aaagtatccctgcacttccacccag	J00475
120273	aggagctggccctgaatgagctctt	J00475
120274	tggccctgaatgagctcttgtccct	J00475
120275	tgaatgagctcttgtccctgacatg	J00475
120276	agctcttgtccctgacatgcctggt	J00475
120277	tgacatgcctggtgcgagctttcaa	J00475
120278	tgcgagctttcaaccctaaagaagt	J00475
120279	agctgtccccagaaagctacctagt	J00475
120280	tgtttgagcccctaaaggagccagg	J00475
120281	aggcagacttgtgcaacttgctttg	W29669
120282	cagacttgtgcaacttgctttggtg	W29669
120283	acttgcagcactccaaatacagtgc	W29669
120284	actccaaatacagtgcttcacatca	W29669
120285	ccaaatacagtgcttcacatcagct	W29669
120286	acagtgcttcacatcagctcgcttc	W29669
120287	cttcacatcagctcgcttctcgcgt	W29669
120288	ttattactgaccatatgcccaatca	W29669
120289	ttactgaccatatgcccaatcaatg	W29669
120290	ctgaccatatgcccaatcaatgagg	W29669
120291	atatgcccaatcaatgaggtgaaga	W29669
120292	ctgcatttccataaacttccaagcc	W29669
120293	tgttttattgccacagatgatatca	W29669
120294	ctcctttcttgtgatgatgtaaaca	W29669
120295	gagctgtattcaactctggaatgct	W29669
120296	ctgtattcaactctggaatgcttcg	W29669

TABLE 1

SEQ ID NO	sequence	DBAxnID
35089	ccctggactctcagactcggacttt	AA002587
35090	tggactctcagactcggacttttat	AA002587
35091	actctcagactcggacttttattgt	AA002587
35092	tctcatcgtgccccacgaaagtaaa	AA002587
35093	ctcagactcggacttttattgtggg	AA002587
35094	catcgtgccccacgaaagtaaatcg	AA002587
35095	tgtcggccatggagccgagtgatag	AA002587
35096	cggccatggagccgagtgatagtgc	AA002587
35097	gtgatagtgccagtaccgctatgga	AA002587
35098	atagtgccagtaccgctatggagga	AA002587
35099	gtgccagtaccgctatggaggagcc	AA002587
35100	ccagtaccgctatggaggagcctga	AA002587
35101	tggaagttcgcgcgctctgacgagc	U25096
35102	taccgaaagcacacaggtcacagac	U25096
35103	ccccttgcaaacagactgctattta	U25096
35104	ctatttattggaccttaggacagag	U25096
35105	aatgactctgccaccagttctggcc	U25096
35106	accagttctggccccacagtgactg	U25096
35107	tctggccccacagtgactgaaggcc	U25096
35108	tcgggtccccactagaggatcgagg	U25096
35109	ccccactagaggatcgaggctagat	U25096
35110	agactatgaccgattgtatttctat	U25096
35111	tggcatctctgccgcctgcttcgtt	U25096
35112	ctctgccgcctgcttcgtttttata	U25096
35113	cacagacccttttcagtgccacttgt	U25096
35114	ccctttcagtgccacttgtgcgacc	U25096
35115	cagtgccacttgtgcgaccgggcct	U25096
35116	cgacacatgtagcctgggtcgactc	U25096
35117	atgtagcctgggtcgactcggctag	U25096
35118	tcgactcggctagcccatgcgcgac	U25096
35119	gcccatgcgcgactgtggcaggttc	U25096
35120	cacggtccccttgcaaacagactgc	U25096
35121	tggtcaaccatcgatgacagccaga	AA168393
35122	accatcgatgacagccagatctgcc	AA168393
35123	gttgccattagcacttactctatgc	AA168393
35124	attagcacttactctatgctgggcc	AA168393
35125	acttactctatgctgggccacacca	AA168393
35126	tctatgctgggccacaccaccaaaa	AA168393
35127	aggtcctgggaagctgagagagtca	AA168393
35128	ctcatgatccttgacgaggtgcaca	AA168393
35129	atccttgacgaggtgcacaccattc	AA168393
35130	gtgcacaccattccagccaggatgt	AA168393
35131	accattccagccaggatgttccggc	AA168393
35132	ttccggcgggttctgactattgtgc	AA168393
35133	gatgacagccagatctgccgcttca	AA168393
35134	ctgactattgtgcaggcgcactgta	AA168393
35135	agccagatctgccgcttcacctcag	AA168393
35136	atctgccgcttcacctcagatgcca	AA168393
35137	cgcttcacctcagatgccaaggaca	AA168393
35138	gatgccaaggacaagcccatcggct	AA168393
35139	aagcccatcggctgctccgttgcca	AA168393
35140	atcggctgctccgttgccattagca	AA168393
35141	tgctccgttgccattagcacttact	AA168393
35142	agcatgctgctccgttctctgcctt	AA002684
35143	tcctcacggacagctttggccgaca	AA002684
35144	aagctgacctactgaccacagagga	AA002684
35145	acctactgaccacagaggagatcct	AA002684
35146	tgaccacagaggagatcctgaccct	AA002684
35147	accgctaactcctgcttatctgaca	AA002684
35148	aactcctgcttatctgacagctgcc	AA002684
35149	cactccactcatgcagacattgagc	AA002684
35150	actcatgcagacattgagccccgga	AA002684
35151	gcagacattgagccccggaacacct	AA002684
35152	aacaccttctaagagagctactact	AA002684
35153	accttctaagagagctactactcat	AA002684
35154	cggacagctttggccgacaacatag	AA002684
35155	gctttggccgacaacatagttacct	AA002684
35156	gccgacaacatagttacctgcggat	AA002684
77693	gtcatcaggtacgtggtgaagaacg	D21826
77694	attggattccagacccgattgctgc	D21826
77695	ttccagacccgattgctgcgggacc	D21826
77696	cctgatatataccatcatctgtttt	D21826
77697	atataccatcatctgttttggaatc	D21826
77698	tgtgattagtctggacctggtaagt	D21826
77699	ctcgaccttggcaggatgctgaagg	D21826
77700	ctgaaggacccaacagacagcaagg	D21826
77701	gacccaacagacagcaagggcattg	D21826
77702	ggcccgtacctggagatcttgaatt	D21826
77703	ttgaattctgctgtcagagatgaaa	D21826
77704	atcttctgtcattcatcctggatta	D21826
77705	tgtcattcatcctggattaaagagt	D21826
77706	tacttcacgtgggctggatttaaga	D21826
77707	cgatcccatgctaaatttgctggcc	U34295
77708	aaatttgctggccctcgacctcgag	U34295
77709	attcaagagctactggcctggatgg	U34295
77710	gagctactggcctggatggtggacc	U34295
77711	caagcagagctctgccgactcaggt	U34295
77712	gagctctgccgactcaggtctcagt	U34295
77713	tgccgactcaggtctcagtgactga	U34295
77714	tctcagtgactgacctagcccagag	U34295
77715	tgactgacctagcccagagcaggac	U34295
77716	acctagcccagagcaggactggact	U34295
77717	ctggactctgaccttagcttgcttg	U34295
77718	ggtccaaagtctctgagagaaccaa	U34295
77719	gctggccctcgacctcgaggtccaa	U34295
77720	tacagcatcgccatggacaagatcc	U34295
77721	atcgccatggacaagatccgacaac	U34295
77722	aagatccgacaacaagacttcgtga	U34295
77723	caagacttcgtgaactggctgctgg	U34295
77724	ttcgtgaactggctgctggcacaga	U34295
77725	tggaaacacaacatcacccagagag	U34295
77726	tctttgcccaagagcctcagtgatg	U34295
77727	gcagccagcaaggcctgacctatac	U03184
77728	agcaaggcctgacctatacatcaga	U03184
77729	atgactaccaggctgctggcgatga	U03184
77730	accaggctgctggcgatgatgagat	U03184
77731	atgagatctcctttgaccctgatga	U03184
77732	acatcatcaccaacatagaaatgat	U03184
77733	tcccagccaactatgtggagctgcg	U03184
77734	ccaactatgtggagctgcggcagta	U03184
77735	agggctgccacccagagcctaccgg	U03184
77736	ctaccggcaccagcacagggttcac	U03184
77737	gcaccagcacagggttcacactaca	U03184
77738	gcacagggttcacactacagagcat	U03184
77739	gcctgacctatacatcagagcccgt	U03184
77740	cctatacatcagagcccgtgtacga	U03184
77741	agactacagaggctcctggccacta	U03184
77742	cagaggctcctggccactatcaagc	U03184
77743	gccactatcaagcagaggatgacac	U03184
77744	atgacacctacgatgggtatgagag	U03184
77745	gtgacctgggcatcacagccatcgc	U03184
77746	ccatcgccctgtatgactaccaggc	U03184
77747	accttctcagatggagcgcagcata	M83219
77748	catcatcgacaccttccatcaatac	M83219
77749	ggacacaaaccaggacaatcagctg	M83219
77750	aaagttgatctttgcctgtcatgag	M83219
77751	gatctttgcctgtcatgagaagctg	M83219
77752	gcatgagaacaacccacgtgggcat	M83219
77753	gaacaacccacgtgggcatggccac	M83219
77754	caacccacgtgggcatggccacagt	M83219
77755	tggccacagtcatggcaaaggctgt	M83219
77756	atgtgactgctgcccaaccaagtct	M83219
77757	caatggcctttgttctgggaaatga	M83219
77758	tggcctttgttctgggaaatgataa	M83219
77759	cgacaccttccatcaatactctagg	M83219
77760	caccttccatcaatactctaggaag	M83219
120297	tcaactctggaatgcttcgaaaata	W29669
120298	ttcgaaaatatcttcaccaagtcct	W29669
120299	atcttcaccaagtcctatcttaaag	W29669
120300	aatgttacttgcagcactccaaata	W29669
120301	gttacttgcagcactccaaatacag	W29669
120302	cccagagtgcccataacacagaacc	
120303	gagtgcccataacacagaaccctg	
120304	tcaaagagtgtcccccatgcgcagc	
120305	caaagagtgtcccccatgcgcagct	
120306	agagtgtcccccatgcgcagctcca	
120307	agtgtcccccatgcgcagctccaga	
120308	gaccagcaatgggcgtacagagcaa	
120309	accagcaatgggcgtacagagcaaa	
120310	ccagcaatgggcgtacagagcaaaa	
120311	cagcaatgggcgtacagagcaaaac	
120312	agcaatgggcgtacagagcaaaact	
120313	caatgggcgtacagagcaaaactac	
120314	agtgcccataacacagaaccctgt	
120315	gtgcccataacacagaaccctgtc	
120316	ctccactcaaagagtgtcccccatg	
120317	tccactcaaagagtgtcccccatgc	
120318	ccactcaaagagtgtcccccatgcg	
120319	cactcaaagagtgtcccccatgcgc	
120320	actcaaagagtgtcccccatgcgca	
120321	ctcaaagagtgtcccccatgcgcag	
120322	agcgcaataaccacatcatcgaact	W29754
120323	ataaccacatcatcgaacttcatca	W29754
120324	atcttgcctgtcatgaagctgcatg	W29754
120325	ttgcctgtcatgaagctgcatgaga	W29754
120326	cctgtcatgaagctgcatgagacaa	W29754
120327	aagctgcatgagacaacccgtgcat	W29754
120328	ctgcatgagacaacccgtgcatggc	W29754
120329	catgagacaacccgtgcatggcaca	W29754
120330	acaacccgtgcatggcacagtcatc	W29754
120331	cgtgcatggcacagtcatcaagctg	W29754
120332	cacagtcatcaagctgtggatttga	W29754
120333	agtcatcaagctgtggatttgagca	W29754
120334	accacatcatcgaacttcatcaatc	W29754
120335	acatcatcgaacttcatcaatctag	W29754
120336	tcatcgaacttcatcaatctaggag	W29754
120337	aacttcatcaatctaggagagaacc	W29754
120338	ttcatcaatctaggagagaacctga	W29754
120339	gagaacctgaaccgagcaaaaggat	W29754
120340	aggacctggacacaaacaggacaat	W29754
120341	ttgatcttgcctgtcatgaagctgc	W29754
120342	agggtaaacttcagcctcatgagtt	W29756
120343	gtaaacttcagcctcatgagttcca	W29756
120344	ttctggcaatcggtgcttcatagga	W29756
120345	tggcaatcggtgcttcataggataa	W29756
120346	aggataaactgatcccagcagataa	W29756
120347	aactgatcccagcagataatgagaa	W29756
120348	tgatgtccgttacactcagctgtga	W29756
120349	tgtccgttacactcagctgtgatca	W29756
120350	ttacactcagctgtgatcatcgagt	W29756
120351	cactcagctgtgatcatcgagttgt	W29756
120352	tcagctgtgatcatcgagttgtgga	W29756
120353	gagcccagtggcttgctgaattcaa	W29756
120354	aacttcagcctcatgagttccaggg	W29756
120355	catttacaatctccaacttagggat	W29756
120356	ttacaatctccaacttagggatgtt	W29756
120357	atttctctgcaattagtagtccacc	W29756
120358	caattagtagtccacctcaggcatg	W29756
120359	gtagtccacctcaggcatgtattct	W29756
120360	cacctcaggcatgtattctggcaat	W29756
120361	gtattctggcaatcggtgcttcata	W29756
120362	tctgacccatccacaggcaatcaca	
120363	ccacaggcaatcacacacagagaaa	
120364	cccagtcctaagctctctaccatag	

TABLE 1

SEQ ID NO	sequence	DBAxnID
35157	aacatagttacctgcggatctctct	AA002684
35158	tgcggatctctctcacagagaagtg	AA002684
35159	tctctctcacagagaagtgcaacct	AA002684
35160	agaagtgcaacctccgatgccagta	AA002684
35161	gcaacctccgatgccagtattgcat	AA002684
35162	tgactcaggcactgcggcgctccct	U43194
35163	ccaagtactcacagctcgagcgcga	U43194
35164	agccgtgcaagtggtggaagcacct	U43194
35165	gcgtgagcctgcaggtcgtgtcatt	U43194
35166	tgagcctgcaggtcgtgtcattgct	U43194
35167	agccacgtggcacaggaccccgacg	U43194
35168	cccgacgggcagcactgctgtggaa	U43194
35169	ttgagacaccgatgcccacacgtac	U43194
35170	ccatccttggctggagccgcaagaa	U43194
35171	agactggaagccaccctgacccctg	U43194
35172	acccctgcaccaacaggaactgtgt	U43194
35173	cctgcaccaacaggaactgtgtcac	U43194
35174	cacagctcgagcgcgaggatgactt	U43194
35175	agctcgagcgcgaggatgacttctt	U43194
35176	aggatgacttcttcgaggctacgga	U43194
35177	tcttcgaggctacggaggccccaga	U43194
35178	tgttttcaaccaagaaccgatggca	U43194
35179	tttcaaccaagaaccgatggcagtt	U43194
35180	caaccaagaaccgatggcagttggt	U43194
35181	actacatcgtgtccgtgaacgggca	U43194
35182	aaatccagttcttcaggaactgcct	U44752
35183	tccagttcttcaggaactgccttcc	U44752
35184	tcatgctgaggtcacatgtataaaa	U44752
35185	tcccaattgtggccattttagttct	U44752
35186	caattgtggccattttagttcttgc	U44752
35187	ccattttagttcttgccatcctatt	U44752
35188	ttgccatcctattcttggctcatcc	U44752
35189	ccatcctattcttggctcatccagt	U44752
35190	tattcttggctcatccagtgttaat	U44752
35191	tggctcatccagtgttaatgcactt	U44752
35192	ttccacagttggacgtggtgttagt	U44752
35193	ctgatcatttgcagttaaggaattt	U44752
35194	tcaggaactgccttcctccctaatt	U44752
35195	aattctgctcttgcttttcagagag	U44752
35196	tctgctcttgcttttcagagagcca	U44752
35197	gcttttcagagagccatcatggtca	U44752
35198	tttcagagagccatcatggtcatgt	U44752
35199	gccatcatggtcatgtcatgctgag	U44752
35200	atcatggtcatgtcatgctgaggtc	U44752
35201	atggtcatgtcatgctgaggtcaca	U44752
35202	gtgaaggaccctcgtttacacatgc	AA002759
35203	tgaaggaccctcgtttacacatgcc	AA002759
35204	aagctccagctttccttcagccttt	AA002759
35205	agctccagctttccttcagcctttg	AA002759
35206	ctccagctttccttcagcctttgca	AA002759
35207	tccagctttccttcagcctttgcat	AA002759
35208	cagctttccttcagcctttgcattt	AA002759
35209	agctttccttcagcctttgcatttt	AA002759
35210	ctttccttcagcctttgcattttgg	AA002759
35211	tttccttcagcctttgcattttgga	AA002759
35212	tccttcagcctttgcattttggaga	AA002759
35213	ccttcagcctttgcattttggagac	AA002759
35214	cgtttacacatgccctctcgtggat	AA002759
35215	gtttacacatgccctctcgtggatg	AA002759
35216	ttacacatgccctctcgtggatggg	AA002759
35217	ggcctcaggtccagggacagaagct	AA002759
35218	cctcaggtccagggacagaagctcc	AA002759
35219	ctcaggtccagggacagaagctcca	AA002759
35220	cagaagctccagctttccttcagcc	AA002759
35221	agaagctccagctttccttcagcct	AA002759
35222	ccaacgtgctgctgctgggcgaact	U18658
35223	acgtgctgctgctgggcgaactgac	U18658
35224	ttctccaagaaggactccagagaaa	U18658

SEQ ID NO	sequence	DBAxnID
77761	cttccatcaatactctaggaaggaa	M83219
77762	ccctgacaccctgagcaagaaggaa	M83219
77763	tgacaccctgagcaagaaggaattc	M83219
77764	agcacagttggcaacctttatgaag	M83219
77765	aaatgaagccctcataaatgacatc	M83219
77766	ggacctggacacaaaccaggacaat	M83219
77767	cctcacatatcctttgtcagctccg	X87966
77768	tcctttgtcagctccgtcttcaaga	X87966
77769	taccacaattattccaatatacaag	X87966
77770	gtcactactgagtgtcctcagtttg	X87966
77771	actgagtgtcctcagtttgtgcaga	X87966
77772	tgtcctcagtttgtgcagaatataa	X87966
77773	aacttcgaggagttccttgcgatgg	X87966
77774	ttcgaggagttccttgcgatggtga	X87966
77775	gagttccttgcgatggtgataaaag	X87966
77776	ttccttgcgatggtgataaaagtgg	X87966
77777	gtggcatctcacaaagacagccaca	X87966
77778	tctcacaaagacagccacaaggagt	X87966
77779	gtcagctccgtcttcaagacatcga	X87966
77780	tccgtcttcaagacatcgaaatctt	X87966
77781	ttcaagacatcgaaatctttcgtga	X87966
77782	aaatctttcgtgacaatgccgtctg	X87966
77783	ttcgtgacaatgccgtctgaactgg	X87966
77784	aaggccttgagcaacctcattgatg	X87966
77785	aacctcattgatgtctaccacaatt	X87966
77786	ctcattgatgtctaccacaattatt	X87966
77787	tctgggaactgcctgctaagcctgc	U37017
77788	aactgcctgctaagcctgcagctgt	U37017
77789	aaacctagaactcaactcatggtgg	U37017
77790	agaactcaactcatggtggctaggg	U37017
77791	cacactgatctgcctgtcttttctg	U37017
77792	gatctgcctgtcttttctgctgctc	U37017
77793	cctgtcttttctgctgctctctaga	U37017
77794	ttttctgctgctctctagagtatgt	U37017
77795	gaccagagccgagctgtgctgtagc	U37017
77796	agccgagctgtgctgtagcacacac	U37017
77797	cacacactaggctcagccgggagcc	U37017
77798	tcagccgggagccagagcttgcaca	U37017
77799	cagctgttatggcccatagggatgg	U37017
77800	agagcttgcacaaccgctcgtgccg	U37017
77801	tgtccctgggtacagtccttgtaca	U37017
77802	cagtccttgtacatagaggaaatct	U37017
77803	gaaatctgtgctggccacattcaga	U37017
77804	tgtgctggccacattcagagcacca	U37017
77805	aaggacctcaggcagtgtggctaag	U37017
77806	ccactgcctgcatctctggtttaga	U37017
77807	cctgcatctctggtttagatgattg	U37017
77808	tccgaatcctcctgctgcagcctgg	U45665
77809	ccagacctcacgacatgtgtgtcac	U45665
77810	atggccaacttgaacagtataatct	U45665
77811	aacagtataatctaccggctggaga	U45665
77812	gctgccaaccgggaagaggtcctgg	U45665
77813	gggacatagccccagaggtcacctt	U45665
77814	agaactcagccatgcagatgtggac	U45665
77815	actcagccatgcagatgtggacaac	U45665
77816	ttctttctgatggccctgctcgtag	U45665
77817	ctgctcgtaggaggcgctggaatcc	U45665
77818	ctcgtaggaggcgctggaatcctgc	U45665
77819	tcgcccctgtgggaaggcagggcca	U45665
77820	gacctcacgacatgtgtgtcacctg	U45665
77821	agccccactggtgacacagccgcag	U45665
77822	actggtgacacagccgcagccttgc	U45665
77823	ttgcaccccagcactaaggtgaacc	U45665
77824	aaccccaacttgcagcggcggcatg	U45665
77825	cccaacttgcagcggcggcatgaga	U45665
77826	aacttgcagcggcggcatgagaaaa	U45665
77827	ttgcagcggcggcatgagaaaatgg	U45665
77828	gaatctgccagagcagatgatgccc	AA087721

SEQ ID NO	sequence	DBAxnID
120365	agactcccaggctagacagaggtcc	
120366	ctcccaggctagacagaggtcctaa	
120367	tcccaggctagacagaggtcctaag	
120368	caggctagacagaggtcctaagctc	
120369	ggctagacagaggtcctaagctctc	
120370	gctagacagaggtcctaagctctct	
120371	tagacagaggtcctaagctctctac	
120372	agacagaggtcctaagctctctacc	
120373	acagaggtcctaagctctctaccat	
120374	cacacacagagaaaaacagcttcca	
120375	cagagaaaaacagcttccagccaag	
120376	agagaaaaacagcttccagccaagg	
120377	agccaaggcttcgcccagtcctaag	
120378	gccaaggcttcgcccagtcctaagc	
120379	caaggcttcgcccagtcctaagctc	
120380	gcttcgcccagtcctaagctctcta	
120381	gcccagtcctaagctctctaccata	
120382	atcagactccggcaacgcgccaatc	W29785
120383	caacgcgccaatccggacagtcggc	W29785
120384	accactggactacacgtcctgtatg	W29785
120385	actggactacacgtcctgtatgcgc	W29785
120386	ggactacacgtcctgtatgcgccag	W29785
120387	cacgtcctgtatgcgccagggagat	W29785
120388	gtcctgtatgcgccagggagatgat	W29785
120389	agaacttcggtcagctatgctccta	W29785
120390	acttcggtcagctatgctcctatgt	W29785
120391	tcggtcagctatgctcctatgtgct	W29785
120392	agctatgctcctatgtgctacgact	W29785
120393	tggagtctcagttcagccaagtggt	W29785
120394	gccaatccggacagtcggctcctga	W29785
120395	ctcagttcagccaagtggtgtggat	W29785
120396	agtcgtgcctgcatggagatcaagc	W29785
120397	atcaagccagtggactacagatggg	W29785
120398	tacagatgggcagtacctggtccgc	W29785
120399	cctggtccgcttaagctcaccactg	W29785
120400	ccgcttaagctcaccactggactac	W29785
120401	cttaagctcaccactggactacacg	W29785
120402	aagctcaccactggactacacgtcc	W29785
120403	taaagacgatggccactctgacagc	W29790
120404	aagacgatggccactctgacagcac	W29790
120405	tctgctcctgcttctcagatacaag	W29790
120406	tgctcctgcttctcagatacaagcc	W29790
120407	tacggcctcctggaccacctacagg	W29790
120408	ctccattcctgagaccacctggaat	W29790
120409	ccattcctgagaccacctggaatgc	W29790
120410	tcctgagaccacctggaatgccagg	W29790
120411	ctgagaccacctggaatgccaggaa	W29790
120412	gagaccacctggaatgccaggaatc	W29790
120413	gaccacctggaatgccaggaatccg	W29790
120414	ggaatgccaggaatccgagggcctt	W29790
120415	gacgatggccactctgacagcacgg	W29790
120416	cgatggccactctgacagcacggct	W29790
120417	ggccactctgacagcacggctgcag	W29790
120418	actctgacagcacggctgcagcctc	W29790
120419	tctgacagcacggctgcagcctctt	W29790
120420	agcagcaggctcctccacagtctgc	W29790
120421	acagtctgctcctgcttctcagata	W29790
120422	agtctgctcctgcttctcagataca	W29790
120423	tggcctggcttggaacccatttttgc	W29737
120424	ggcttggaacccatttttgccactct	W29737
120425	tcccaatttaaacgcatatctgtct	W29737
120426	cgcatatctgtctctgagtgacaca	W29737
120427	gtctctgagtgacacatgcgtacat	W29737
120428	cacatgcgtacatatacactatgga	W29737
120429	atgcgtacatatacactatggatct	W29737
120430	cgtacatatacactatggatctgat	W29737
120431	acatatacactatggatctgatcga	W29737
120432	tatacactatggatctgatcgatct	W29737

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
35225	gcccctagctggacagaggagaaga	U18658	77829	agatgatgcccgacagttatttgtt	AA087721	120433	atacactatggatctgatcgatctc	W29737
35226	attccagaagcccaaaccactcctg	U18658	77830	ggtacaggcatgccttagcaggtcc	AA087721	120434	tacactatggatctgatcgatctct	W29737
35227	caaaccactcctgcgttgtgtaagg	U18658	77831	caggcatgccttagcaggtccaggg	AA087721	120435	gaacccattttgccactctctggga	W29737
35228	tgggcacagggctcaccctggagag	U18658	77832	catgccttagcaggtccaggggata	AA087721	120436	cccattttgccactctctgggaatc	W29737
35229	gcacagggctcaccctggagagcca	U18658	77833	tgccttagcaggtccaggggataac	AA087721	120437	attttgccactctctgggaatcgat	W29737
35230	agagccacaaggacccatctagcca	U18658	77834	ttagcaggtccaggggataaccgct	AA087721	120438	ttgccactctctgggaatcgattct	W29737
35231	gccatccaggcctagctggccaggg	U18658	77835	ggataaccgctcaatggatctgctc	AA087721	120439	tgactaagccagcagcggcacaacc	W29737
35232	atccaggcctagctggccagggaca	U18658	77836	aaccgctcaatggatctgctcaaac	AA087721	120440	gttagacttaactgtctttgaagca	W29737
35233	caggcctagctggccagggacaagg	U18658	77837	ccgctcaatggatctgctcaaacta	AA087721	120441	agacttaactgtctttgaagcaagg	W29737
35234	tgctgctgggcgaactgacggccga	U18658	77838	aatggatctgctcaaactacctaaa	AA087721	120442	ttttcccaatttaaacgcatatctg	W29737
35235	gctccatctgcaccttctgtctcag	U18658	77839	tggatctgctcaaactacctaaatg	AA087721	120443	gtattcagactccctgaacatgagc	J00476
35236	tctgcaccttctgtctcagcaacca	U18658	77840	gttttagctgggagtgctgaagaag	AA087721	120444	agactccctgaacatgagcactgtg	J00476
35237	gcaccttctgtctcagcaaccagcg	U18658	77841	tctgctcaaactacctaaatgattg	AA087721	120445	taggactatcctagttcgacctgtc	J00476
35238	ccttctgtctcagcaaccagcgcaa	U18658	77842	tttagctgggagtgctgaagaagga	AA087721	120446	cctagttcgacctgtcaacatcact	J00476
35239	tctgtctcagcaaccagcgcaaggg	U18658	77843	ggagtcctgacttcagaactaacag	AA087721	120447	tcgacctgtcaacatcactgagccc	J00476
35240	ggcctcggcgatgaacctggatccc	U18658	77844	tcctgacttcagaactaacaggcgt	AA087721	120448	tgtcaacatcactgagcccaccttg	J00476
35241	gttttctccaagaaggactccagag	U18658	77845	ctgacttcagaactaacaggcgtga	AA087721	120449	tgagcccaccttggagctactccat	J00476
35242	aatttcctgatgctcttacagtctg	D78647	77846	gacttcagaactaacaggcgtgatt	AA087721	120450	ccagctgtactgcttcatttatggc	J00476
35243	ctgatgctcttacagtctgcctggg	D78647	77847	cttcagaactaacaggcgtgattag	AA087721	120451	gctgtactgcttcatttatggccac	J00476
35244	tgtgtttatctccctggaagtcctg	D78647	77848	tttaatgcgagaatgcggggtacag	AA087721	120452	gtactgcttcatttatggccacatc	J00476
35245	tatctccctggaagtcctgccctaa	D78647	77849	gaactgtacttttatcactagagga	U54803	120453	cttcatttatggccacatcctaaat	J00476
35246	agtcctgccctaaatggtctgtcac	D78647	77850	tacttttatcactagaggaatgatt	U54803	120454	ttatggccacatcctaaatgatgtc	J00476
35247	tcacaccctaccgagtatttcctca	D78647	77851	ggtactatcatcctagatgaaatta	U54803	120455	ggtcaccaccagccaagtgaccagc	J00476
35248	gagtatttcctcagtactttacaga	D78647	77852	actatcatcctagatgaaattacaa	U54803	120456	ccacatcctaaatgatgtctctgtc	J00476
35249	aatgtaagctcgtctagagacaggg	D78647	77853	agcagtacagcttttccactgatga	U54803	120457	caccaccagccaagtgaccagctgg	J00476
35250	agctcgtctagagacaggggcaatg	D78647	77854	acagcttttccactgatgattttat	U54803	120458	gaccagctggggcaagtcagccaag	J00476
35251	tgtatgttctattgtgcctagtaca	D78647	77855	tttccactgatgattttatactccc	U54803	120459	caagtcagccaagaacttcacatgc	J00476
35252	ttctattgtgcctagtacactgtaa	D78647	77856	gaacttgaatccatgagcagagtca	U54803	120460	agccaagaacttcacatgccacgtg	J00476
35253	tgtgcctagtacactgtaaatgctc	D78647	77857	ggaccaccatagcatgcattatagc	U54803	120461	atgccacgtgacacatcctccatca	J00476
35254	attcctctatttccatgttgggcac	D78647	77858	tagctactggttttgtgacagttgt	U54803	120462	acatcctccatcattcaacgaaagt	J00476
35255	tgggcacaggctcacttccctttta	D78647	77859	tgacagttgtccacaacacgtattt	U54803	120463	tcctccatcattcaacgaaagtagg	J00476
35256	actgtcttgtcaccaaccattccaa	D78647	77860	ttgtccacaacacgtatttgttatt	U54803	120464	agctctccaataaacatagcatgaa	D11091
35257	ttgtcaccaaccattccaacttggt	D78647	77861	ttctgttttgttatgccaaatgaga	U54803	120465	tttacaaatctgttcattctggcta	D11091
35258	ccaaccattccaacttggtggccat	D78647	77862	actctcatttaaatctaatctgacg	U54803	120466	cccttatcacgttgttcccagtgat	D11091
35259	attccaacttggtggccatgtattt	D78647	77863	atctaatctgacggtcctcctggtc	U54803	120467	ttatcacgttgttcccagtgatttg	D11091
35260	atctttctggctccactcagtgtct	D78647	77864	ggtctttgtacgctaccactgccta	U54803	120468	tcacgttgttcccagtgatttgatg	D11091
35261	ctggctccactcagtgtctaagata	D78647	77865	ctttgtacgctaccactgcctagca	U54803	120469	taagtccctccttaggcatcctgca	D11091
35262	tcgatgttggtggtcgacgagcaga	AA002879	77866	cacagtgcagctacctcaacttcga	U54803	120470	gtccctccttaggcatcctgcaaga	D11091
35263	gatccccgtcgatgtcaagacagcc	AA002879	77867	acttcgacatcaggtagttgaaatg	U54803	120471	agtagtcagtcctgttgagttagag	D11091
35264	aagagcactgccatacaatggctgg	AA002879	77868	gatggtactatcatcctagatgaaa	U54803	120472	cagtcctgttgagttagagtcctaa	D11091
35265	gcactgccatacaatggctggatca	AA002879	77869	gctcacggaggccaagcaggtcacc	U52823	120473	agagtcctaactatacacaatatcg	D11091
35266	actgccatacaatggctggatcatc	AA002879	77870	tggcctctacatcgagctcccagct	U52823	120474	actatacacaatatcgtgcgatgtt	D11091
35267	atacaatggctggatcatcgcagct	AA002879	77871	gagacccgacgcttgcttcatggtc	U52823	120475	cacaatatcgtgcgatgtttatata	D11091
35268	tggatcatcgcagctcgtagcagtt	AA002879	77872	ttgcttcatggtctacactctggag	U52823	120476	ctgttcattctggctagccccaaaa	D11091
35269	gatcatcgcagctcgtagcagttag	AA002879	77873	catggtctacactctggagagagag	U52823	120477	ttcattctggctagccccaaaattc	D11091
35270	tcatcgcagctcgtagcagttagac	AA002879	77874	gttagtccacatgtcgtgattgtgc	U52823	120478	tagcagagccctttgtcgccaacag	D11091
35271	cagctcgtagcagttagacgtcatg	AA002879	77875	ccacatgtcgtgattgtgcagaata	U52823	120479	cagagccctttgtcgccaacaggga	D11091
35272	tagacgtcatgttcagacgatgagg	AA002879	77876	ctgtgtttgtcacactcaagtgttg	U52823	120480	gatgtcgcctacgtggaacaactta	D11091
35273	gacgtcatgttcagacgatgaggcc	AA002879	77877	ttgtcacactcaagtgttggcttta	U52823	120481	caacttatacacacagaaggaaagt	D11091
35274	gatgtcaagacagccgtatgatgta	AA002879	77878	gtgacctatgctatagcagtctcct	U52823	120482	ggtttacagctgccaatcaaacctg	D11091
35275	cgtcatgttcagacgatgaggcctt	AA002879	77879	tatgctatagcagtctcctttgaag	U52823	120483	ctctctgtcagcgtaggtaggcact	D11091
35276	tgtcaagacagccgtatgatgtatc	AA002879	77880	atagcagtctcctttgaagtctgga	U52823	120484	cttcggcatgatcttcacctgctgc	AA050218
35277	tgatgtatcgcgaccaggagcctgg	AA002879	77881	cccagctggacctctgcctgagggc	U52823	120485	catgatcttcacctgctgcttgtac	AA050218
35278	accaggagcctggtcatgtgcagga	AA002879	77882	tggacctctgcctgagggcagtaag	U52823	120486	gttgcactactgaccacgatgatgc	AA050218
35279	agcctggtcatgtgcaggacaccta	AA002879	77883	tctgcctgagggcagtaaggacagt	U52823	120487	agccccactactgaacactactgac	AA050218
35280	catgtgcaggacacctacaacggca	AA002879	77884	ttttgcagctctcctagagttcgca	U52823	120488	cccactactgaacactactgactta	AA050218
35281	caggacacctacaacggcaagagca	AA002879	77885	agctctcctagagttcgcagaggag	U52823	120489	gaacactactgacttagactgctga	AA050218
35282	gcaagagcactgccatacaatggct	AA002879	77886	agaggagcaactccaggctgaccac	U52823	120490	tactgacttagactgctgactgcca	AA050218
35283	gtttctatcatctacaatgattctg	U39818	77887	gcaactccaggctgaccacgttttc	U52823	120491	agactgctgactgccagaggtagct	AA050218
35284	atcatctacaatgattctggtgagg	U39818	77888	ctttcttggctttgagattgtgaga	U52823	120492	ctgctgactgccagaggtagctacc	AA050218
35285	tcacaggtacaccacagccgatcca	U39818	77889	agcccttgcgattatcattactgac	AA087709	120493	agaggtagctaccctcatgccatcg	AA050218
35286	actgacatctatccctccaagtgga	U39818	77890	ccttgcgattatcattactgacact	AA087709	120494	agctaccctcatgccatcgctacga	AA050218
35287	atctatccctccaagtggatcgcaa	U39818	77891	tggaacaagcactttctctcgtcag	AA087709	120495	cctggcatgccacctcaggggcatg	AA050218
35288	atcgcaagactccgccacattaagc	U39818	77892	cactttctctcgtcagaatgctatc	AA087709	120496	cttcacctgctgcttgtaccgaagc	AA050218
35289	tccaacccaagcttgcctctgatgc	U39818	77893	tttctctcgtcagaatgctatcgag	AA087709	120497	atgccacctcaggggcatgcacctt	AA050218
35290	cagcagatccatgactagagtcctg	U39818	77894	ctctcgtcagaatgctatcgagttg	AA087709	120498	cacctgctgcttgtaccgaagcctc	AA050218
35291	atccatgactagagtcctgtgccag	U39818	77895	gaatgctatcgagttgcttgtacga	AA087709	120499	cttgtaccgaagcctcaagctggaa	AA050218
35292	gactagagtcctgtgccagccatgt	U39818	77896	tgctatcgagttgcttgtacgacag	AA087709	120500	gtaccgaagcctcaagctggaacac	AA050218

TABLE 1

SEQ ID NO	sequence	DBAxnID
35293	tagctgtcctgactgtactcctaca	U39818
35294	tcctgactgtactcctacatgaaat	U39818
35295	tacaatgattctggtgaggacttca	U39818
35296	ggcaccattaagcagggccagttca	U39818
35297	cagttcaactttgtccatgtgatca	U39818
35298	gtccatgtgatcatcacaccgctgg	U39818
35299	gtgatcatcacaccgctggactaca	U39818
35300	ggccctgcatgcaaatgtgagtggt	U39818
35301	ctgctctgtcacctccagatggcct	U39818
35302	atggcctcacaggtacaccacagcc	U39818
35303	tgccgcttcctgaagggtgtctccc	D49427
35304	aacatttgtcaccagtgcccatggg	D49427
35305	catgtacctacatgtgcacatcgga	D49427
35306	cctacatgtgcacatcggatggatg	D49427
35307	tgtgcacatcggatggatgtgttca	D49427
35308	agactggtcctggtcatgagcactt	D49427
35309	gtcctggtcatgagcacttacacag	D49427
35310	agcacttacacagatatgaaggctg	D49427
35311	ctcctcctggcacagtctccaaagt	D49427
35312	cagtctccaaagtgttgataaagca	D49427
35313	ccattacatgctatgtacttttagg	D49427
35314	tcagcttcaataaacatgttctggt	D49427
35315	tgtcaccagtgcccatgggaaatac	D49427
35316	caataaacatgttctggtggttcac	D49427
35317	taggagcctctgggctccaacactg	D49427
35318	aacactgcggctccttcactgacac	D49427
35319	gcggctccttcactgacacaggctg	D49427
35320	ccttcactgacacaggctggtgcct	D49427
35321	caggctggtgcctacatatgcacac	D49427
35322	ggtgcctacatatgcacaccagaga	D49427
35323	atgcaactacatgtgcacaccagag	D49427
35324	aagcatgcgcagtgcttaattacag	AA002750
35325	ttaattacaggagggtcgtgcccat	AA002750
35326	ctggctacatcttcggcaagcggat	AA002750
35327	gctacatcttcggcaagcggatcat	AA002750
35328	acatcttcggcaagcggatcattct	AA002750
35329	tcttcggcaagcggatcattctgtt	AA002750
35330	tcggcaagcggatcattctgttcct	AA002750
35331	agcggatcattctgttcctgttcct	AA002750
35332	ggatcattctgttcctgttcctcat	AA002750
35333	tgttcctcatgtccttcgccgggat	AA002750
35334	tcatgtccttcgccgggatactcaa	AA002750
35335	tgtccttcgccgggatactcaacca	AA002750
35336	gggtcgtgcccatccttgctatgaa	AA002750
35337	tcgccgggatactcaaccattacct	AA002750
35338	tcgtgcccatccttgctatgaagta	AA002750
35339	tgcccatccttgctatgaagtaagt	AA002750
35340	ccatccttgctatgaagtaagtggg	AA002750
35341	taacgccccgtgtctggaagtggcg	AA002750
35342	tgaactgggtgtcgtttgtgatgca	AA002750
35343	gcacccctggctacatcttcggcaa	AA002750
35344	cccctggctacatcttcggcaagcg	AA002750
35345	atcatgtcccttcgagctgctgtgc	U15548
35346	cgagctgctgtgcgctatgacccag	U15548
35347	ctaatgtcttcagatcgcccagggc	U15548
35348	gcctttgaacactatatcaattacc	U15548
35349	tatatcaattaccggaagcaccatg	U15548
35350	aattaccggaagcaccatgtgacac	U15548
35351	caccatgtgacacacttttggccca	U15548
35352	acagacctgcggatgattggagctt	U15548
35353	ccgcctctgttcttagaagtatttg	U15548
35354	acaagttcttgtcattcctgcagca	U15548
35355	tcttgtcattcctgcagcatgactg	U15548
35356	cattgcattccacctgtagcattct	U15548
35357	gacccagacagcgagactctaactt	U15548
35358	tcgtttctttgtgtcaagtgagatc	U15548
35359	gtgacacgaggccagctgaaaaatg	U15548
35360	tttgacctgggcatgtctctgtcat	U15548

SEQ ID NO	sequence	DBAxnID
77897	tatcgagttgcttgtacgacagccg	AA087709
77898	gttgcttgtacgacagccggttaat	AA087709
77899	gcttgtacgacagccggttaatgaa	AA087709
77900	tgtacgacagccggttaatgaaatg	AA087709
77901	cattactgacactgaaatcagtgaa	AA087709
77902	gtacgacagccggttaatgaaatgg	AA087709
77903	tactgacactgaaatcagtgaattt	AA087709
77904	cctaaggattcctcattttcactgg	AA087709
77905	gattcctcattttcactggaaaacg	AA087709
77906	tcattttcactggaaaacgagcaaa	AA087709
77907	aacagtatgaacactccttcttgga	AA087709
77908	aacactccttcttggaacaagcact	AA087709
77909	ccttcttggaacaagcactttctct	AA087709
77910	ttggtgtttggctgccgatgctccc	U53142
77911	tttggctgccgatgctcccaactgg	U53142
77912	actatggcaaccagcgtcctgcaaa	U53142
77913	ctgcaaaccgtgcagagaattctgg	U53142
77914	gacgtcatcggcgtgctgcgggatc	U53142
77915	atcggcgtgctgcgggatcagcaac	U53142
77916	gacattttcggactcacattgcgca	U53142
77917	ttcggactcacattgcgcacccagg	U53142
77918	ttgcgcacccaggaggtgacaagcc	U53142
77919	acaagccgcatacgcacccagagct	U53142
77920	gcagtgccctggtcctttgacccgc	U53142
77921	ccagaaatacctggttcctgacagt	U53142
77922	tgccgatgctcccaactggaccatc	U53142
77923	ctcaccgccttttccagggatcctg	U53142
77924	gtgcaagacctcctgaggacagagc	U53142
77925	gacctcctgaggacagagctagccg	U53142
77926	acagagctagccgcggaggttcacc	U53142
77927	gttcaccgtgtgctgtgccttgagc	U53142
77928	catatgtttgtctgcggcgatgtca	U53142
77929	gatgtcactatggcaaccagcgtcc	U53142
77930	gctacccgggaccataccagcctat	U57051
77931	cataccagcctatggccagttacct	U57051
77932	cgtttgcagagcccagtgtccagca	U57051
77933	gcaaaaaacgcattccctatagcaa	U57051
77934	aacgcattccctatagcaaggggca	U57051
77935	atgcagccaacaagtttatcactaa	U57051
77936	gcaagatctcggcagccaccagcct	U57051
77937	ccagcctctctgaacgccagattac	U57051
77938	tctctgaacgccagattaccatctg	U57051
77939	aacgccagattaccatctggtttca	U57051
77940	aggttcttgccaaggtcaagaccag	U57051
77941	aggtcaagaccagcactaccccgtg	U57051
77942	agcctatggccagttacctggatgt	U57051
77943	ggtcaagaccagcactaccccgtga	U57051
77944	acgattctctgcttcccgtggacag	U57051
77945	ctctgcttcccgtggacagttacca	U57051
77946	ttcccgtggacagttaccagccctg	U57051
77947	tggacagttaccagccctgggccct	U57051
77948	tggccggtggctggaacagccagat	U57051
77949	gtgaacagaacccaccaggtccatt	U57051
77950	caccaggtccattctggaaagcagc	U57051
77951	ttttgcaacaatgtcttttattagg	W85446
77952	atgatctcttcaatttctccatata	W85446
77953	catttatcttactggagcttgccaa	W85446
77954	tttatcttactggagcttgccaact	W85446
77955	tatcttactggagcttgccaactat	W85446
77956	ttactggagcttgccaactatctag	W85446
77957	actggagcttgccaactatctagag	W85446
77958	gcttgccaactatctagagaaggac	W85446
77959	ttgccaactatctagagaaggacac	W85446
77960	tgctttaaccaggaggccagttcat	W85446
77961	ctttaaccaggaggccagttcatct	W85446
77962	ttaaccaggaggccagttcatctgc	W85446
77963	gatctcttcaatttctccatatata	W85446
77964	tctcttcaatttctccatatacagg	W85446

SEQ ID NO	sequence	DBAxnID
120501	ccgaagcctcaagctggaacactac	AA050218
120502	cctcaagctggaacactactgacca	AA050218
120503	gctggaacactactgaccacgatga	AA050218
120504	gccgttgcactactgaccacgatga	AA050218
120505	tatcttcttcctgatggcagtggtt	M12813
120506	cttcctgatggcagtggttacaggg	M12813
120507	caacattaaagacacctatatgcac	M12813
120508	taaagacacctatatgcactgggtg	M12813
120509	agacacctatatgcactgggtgaag	M12813
120510	gattgatcctgcgaatggtaatact	M12813
120511	tgatcctgcgaatggtaatactaaa	M12813
120512	tactaaatatgacccgaagttccag	M12813
120513	atatgacccgaagttccagggcaag	M12813
120514	caaggccactataacagcagacaca	M12813
120515	ggccactataacagcagacacatcc	M12813
120516	tataacagcagacacatcctccaac	M12813
120517	ttcagaggttcagctgcagcagtct	M12813
120518	tcagctgcagcagtctggggcagag	M12813
120519	agagcttgtgaagccaggggcctca	M12813
120520	tgtgaagccaggggcctcagtcaag	M12813
120521	ggcctcagtcaagttgtcctgcaca	M12813
120522	gttgtcctgcacagcttctggcttc	M12813
120523	cacagcttctggcttcaacattaaa	M12813
120524	cttcaacattaaagacacctatatg	M12813
120525	aattgaggcttctgtaagtgagtcc	W29899
120526	attgaggcttctgtaagtgagtccc	W29899
120527	ggcacgcagctcggaggacatggct	W29899
120528	gcacgcagctcggaggacatggctc	W29899
120529	ctcggaggacatggctcgggagacc	W29899
120530	cttatcacggaccaccactggaaca	W29899
120531	tatcacggaccaccactggaacaac	W29899
120532	atcacggaccaccactggaacaacg	W29899
120533	tcacggaccaccactggaacaacgc	W29899
120534	cacggaccaccactggaacaacgcg	W29899
120535	accttctggatttgatccgcagaga	W29899
120536	gatttgatccgcagagagggcagga	W29899
120537	ttgaggcttctgtaagtgagtcccg	W29899
120538	agttgtccgagaggatcgaaggctt	W29899
120539	ttgtccgagaggatcgaaggcttcg	W29899
120540	aggatcgaaggcttcgtggagactc	W29899
120541	ggatcgaaggcttcgtggagactct	W29899
120542	aaggcttcgtggagactctgaagcg	W29899
120543	gcttcgtggagactctgaagcgagg	W29899
120544	ttcgtggagactctgaagcgaggtg	W29899
120545	gcagctgaccacttggaagcattgg	W29920
120546	ttggcagccattgaggactgcttct	W29920
120547	ctgatggctttctaccagctggaga	W29920
120548	gctttctaccagctggagatcttgg	W29920
120549	ttgagctggttcagccaaagagaca	W29920
120550	agctggttcagccaaagagacacaa	W29920
120551	caaagagacacaactgacgaaggcc	W29920
120552	gacacaactgacgaaggccagcagt	W29920
120553	actgacgaaggccagcagttacgga	W29920
120554	ttcatccagtggctgagagaggcag	W29920
120555	tcatccgaagatgactgatggtgac	W29920
120556	tggtgactgccagatccgtgcatct	W29920
120557	attgaggactgcttcttggaacatg	W29920
120558	ctgccagatccgtgcatctcattgg	W29920
120559	gactgcttcttggaacatgaaactc	W29920
120560	gaaactctcgttacttccatggcca	W29920
120561	actctcgttacttccatggccaagg	W29920
120562	acttccatggccaaggtcctgatgg	W29920
120563	tccatggccaaggtcctgatggctt	W29920
120564	atggccaaggtcctgatggctttct	W29920
120565	gtcctgatggctttctaccagctgg	W29920
120566	tttaacatcattatcttcacagtaa	M16724
120567	taacatcattatcttcacagtaaca	M16724
120568	cttctgggttcaccttcactgatta	M16724

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
35361	atgtctctgtcatctttcaacctgg	U15548	77965	gcaaaactacgtgtgccatttatct	W85446	120569	tctgggttcaccttcactgattact	M16724
35362	gatgacactgaagtcgccctgcttc	U15548	77966	aactacgtgtgccatttatcttact	W85446	120570	tgggttcaccttcactgattactac	M16724
35363	actgaagtcgccctgcttcaggccg	U15548	77967	ctacgtgtgccatttatcttactgg	W85446	120571	ggttcaccttcactgattactacat	M16724
35364	caggccgtcctgctaatgtcttcag	U15548	77968	gtgtgccatttatcttactggagct	W85446	120572	ttcaccttcactgattactacatga	M16724
35365	gtcctgctaatgtcttcagatcgcc	U15548	77969	gtgccatttatcttactggagcttg	W85446	120573	ctgattactacatgaactgggtcca	M16724
35366	gtcctagccagcatgtcccacagac	U36220	77970	gccatttatcttactggagcttgcc	W85446	120574	gattactacatgaactgggtccacc	M16724
35367	gccagcatgtcccacagactctgtt	U36220	77971	gttcacctgtcaagtggagcaccca	U66849	120575	ttactacatgaactgggtccaccag	M16724
35368	catgtccacccaggattgacgaagg	U36220	77972	ctgtcaagtggagcacccaggcctg	U66849	120576	actacatgaactgggtccaccagcc	M16724
35369	gaaggaacttcacactcctctatca	U36220	77973	tgctcttagccttctctgttcactt	U66849	120577	ccaccagcctccagggaaggcactt	M16724
35370	cactcctctatcatgcaaaaatagt	U36220	77974	tagccttctctgttcactttcttaa	U66849	120578	acatcattatcttcacagtaacacc	M16724
35371	ggcagttactcttaaggcgaggtag	U36220	77975	tttctccagttaagttcagttcctg	U66849	120579	atcattatcttcacagtaacaccttt	M16724
35372	tactcttaaggcgaggtagatacct	U36220	77976	ctggtctcatgattcttaggctgct	U66849	120580	cattatcttcacagtaacaccttta	M16724
35373	gaggtagatacctcatcctgcaccg	U36220	77977	gtttccttcatgcacctagactcca	U66849	120581	atcttcacagtaacacctttaaatg	M16724
35374	gcatcaagccaaagtctccaaaact	U36220	77978	cacctagactccatatgtctacgta	U66849	120582	aaatggtatccagtgtgaggtgaag	M16724
35375	agtctccaaaacttgggcattgaat	U36220	77979	gactccatatgtctacgtaaagagc	U66849	120583	atggtatccagtgtgaggtgaagct	M16724
35376	ggattttagtcctacaggtgatgat	U36220	77980	cccctctaagtttagtggatacatg	U66849	120584	gcatcttctgggttcaccttcactg	M16724
35377	tagtcctacaggtgatgattgaacg	U36220	77981	atacatgattcgtttccacatctga	U66849	120585	atcttctgggttcaccttcactgat	M16724
35378	atgtcccacagactctgttgttcct	U36220	77982	gattcgtttccacatctgaagaagt	U66849	120586	ggctgtcttagggctgctcttctgc	M36690
35379	agtcctacaggtgatgattgaacgt	U36220	77983	ctgtgccatcttcttagttggaatt	U66849	120587	gctgctcttctgcctagtgacattc	M36690
35380	tccaacgcccgtcattagtgacagc	U36220	77984	tggaattctgttcctaatcttaagg	U66849	120588	aggacctggcctattgcagccctca	M36690
35381	cattagtgacagctttctctctgag	U36220	77985	tgtcttaacagactgtgagtgatct	U66849	120589	cctattgcagccctcacagagcctg	M36690
35382	tgacagctttctctctgagtttctg	U36220	77986	tgcagcctgctgaaccacggaagag	U66849	120590	attgcagccctcacagagcctgtcc	M36690
35383	cccactcaaggacgatgttagcgct	U36220	77987	ctgctgaaccacggaagagagaaaa	U66849	120591	catcacctgcacagtctctggtttc	M36690
35384	cacccttgctgtgcagaacctaagg	U36220	77988	agttggacctaacacacagaaactg	U66849	120592	cacagtctctggtttctcattaact	M36690
35385	cccagactcgagtggacggacatcc	U36220	77989	acctaacacacagaaactgcctgag	U66849	120593	taatgcagctttcatatccagactg	M36690
35386	gacatccatgtccacccaggattga	U36220	77990	gaactgtgctcttagccttctctgt	U66849	120594	gcaatctaatgacacagccatatat	M36690
35387	acagcatggcttctcttcaaaagtt	L44117	77991	agctcattacttgcaggcggccctg	M97812	120595	atctaatgacacagccatatattac	M36690
35388	tggcttctcttcaaaagttctatca	L44117	77992	tcattacttgcaggcggccctgcag	M97812	120596	catatattactgtgccagaaacaca	M36690
35389	aaatcactccaagtactagcattac	L44117	77993	ctggatttcaacttgcgcacccaca	M97812	120597	ttactgtgccagaaacacagtgagg	M36690
35390	cttgcatatgtaccattagcgattt	L44117	77994	aggcgctttgtgtgtcctttgatg	M97812	120598	gctcttctgcctagtgacattccca	M36690
35391	gcgatttcttctgggatatatatgt	L44117	77995	tgtccttttgatggctgcgagaaga	M97812	120599	ctgcctagtgacattcccaagctgt	M36690
35392	tatatgtctctgaaagcacttacct	L44117	77996	ccttttgatggctgcgagaagagct	M97812	120600	cctagtgacattcccaagctgtgtc	M36690
35393	cttacctaacactatcagcctccat	L44117	77997	cagaagattcacatcctaacccacg	M97812	120601	agtgacattcccaagctgtgtccta	M36690
35394	taacactatcagcctccattctgcc	L44117	77998	aagattcacatcctaacccacgcaa	M97812	120602	cccaagctgtgtcctatcccaggtg	M36690
35395	tatcagcctccattctgccatataa	L44117	77999	agacagattgtcctcaggctgggta	M97812	120603	aagctgtgtcctatcccaggtgcag	M36690
35396	aatgtcctgactctgacgaaccact	L44117	78000	attgtcctcaggctgggtagtctta	M97812	120604	atcccaggtgcagctgaagcagtca	M36690
35397	ctgacgaaccactactatatggcga	L44117	78001	gtcctcaggctgggtagtcttaatg	M97812	120605	gtcaggacctggcctattgcagccc	M36690
35398	acatcactaacgtactcttggagag	L44117	78002	aatgacagaggcactggggatacac	M97812	120606	cctgtcgcacggcgctcacaagcag	W29940
35399	tctatcaacctggagcagtcacata	L44117	78003	tactgtggtgtcttatcgatgctgg	M97812	120607	tgtcgcacggcgctcacaagcagaa	W29940
35400	aacctggagcagtcacatatctcct	L44117	78004	ttatcgatgctggagtgtcctcaag	M97812	120608	ctcatgcgattcgcaagctgcttag	W29940
35401	gagcagtcacatatctccttattgt	L44117	78005	tcgatgctggagtgtcctcaagccg	M97812	120609	catgcgattcgcaagctgcttagag	W29940
35402	tattcttacttcaggagactgctgg	L44117	78006	tgtcctcaagccgggtgcaagaaga	M97812	120610	tgcgattcgcaagctgcttagagca	W29940
35403	tacttcaggagactgctgggttttg	L44117	78007	gccttcacggagagctcgaaactaa	M97812	120611	cgattcgcaagctgcttagagcact	W29940
35404	ggtaccatggcttacacaatgaacc	L44117	78008	ctaaagcgacattttctggtgcaca	M97812	120612	attcgcaagctgcttagagcactac	W29940
35405	actacacactcacactgaatatgaa	L44117	78009	aagcgacattttctggtgcaccacg	M97812	120613	gctgcttagagcactacaccgagtg	W29940
35406	cactcacactgaatatgaaaatcac	L44117	78010	ctggtgcacaccggagagaagccgt	M97812	120614	tgcttagagcactacaccgagtgcg	W29940
35407	agctgcgctgttgctgtctgggatt	U21960	78011	gcccaacaggctgggaagtaattga	D73368	120615	cttagagcactacaccgagtgcgga	W29940
35408	gctgtctgggattcccgctgaggcg	U21960	78012	aggtacatacagcgtgctgtagtga	D73368	120616	tagagcactacaccgagtgcggact	W29940
35409	ttggtttataccttcatcaaaatct	U21960	78013	gaatgatcttcgtcactctgaagcc	D73368	120617	agcactacaccgagtgcggactggc	W29940
35410	tataccttcatcaaaatctttggct	U21960	78014	tcttcgtcactctgaagccaccgtg	D73368	120618	gcacggcgctcacaagcagaactac	W29940
35411	acgaacagcactaacgatttctctt	U21960	78015	tcgtcactctgaagccaccgtggcc	D73368	120619	acggcgctcacaagcagaactacct	W29940
35412	atcttccacttttcctctaatgtct	U21960	78016	tccggtccttgaaactgtcgagtct	D73368	120620	ggcgctcacaagcagaactacctcg	W29940
35413	tcctctaatgtctgagatttgtaat	U21960	78017	ggtccttgaaactgtcgagtctgct	D73368	120621	cgctcacaagcagaactacctcgcg	W29940
35414	ttgtaatccctcttgtaggcccagg	U21960	78018	tgaaactgtcgagtctgcttttaag	D73368	120622	ctcacaagcagaactacctcgcgca	W29940
35415	gctagtccttttaggcgactagata	U21960	78019	gtctgcttttaagcagtgagcgcac	D73368	120623	tcgcgcacctcatgcgattcgcaag	W29940
35416	ccttttaggcgactagatagacagg	U21960	78020	gtgagcgcactaacccttgtgggg	D73368	120624	gcgcacctcatgcgattcgcaagct	W29940
35417	gtctcagcctgcctaaaagactgca	U21960	78021	gtcatatagcctctgggaaagtctc	D73368	120625	acctcatgcgattcgcaagctgctt	W29940
35418	gactgcactttgtatttctgtcatt	U21960	78022	atatagcctctgggaaagtctcagt	D73368	120626	tgtgctctgtggcaatggagcaact	AA089333
35419	ccggtccatggacacctacagcaag	U21960	78023	tacatacagcgtgctgtagtgaacc	D73368	120627	ctaccctggactaccattgggatct	AA089333
35420	ggacctctgcgtctacttcttcacc	U21960	78024	gatagcgatcctgtttcaacgttgt	D73368	120628	gaatgcatacctaccaagtgggcat	AA089333
35421	cttcattttctgtcatgaactgctt	U21960	78025	tcaacgttgttacactcaagccaag	D73368	120629	atgcatacctaccaagtgggcatga	AA089333
35422	tttctgtcatgaactgcttgattac	U21960	78026	ttgttacactcaagccaagattgaa	D73368	120630	atacctaccaagtgggcatgaacga	AA089333
35423	ttacaaatgacaacaacttctcttt	U21960	78027	ttacactcaagccaagattgaatgt	D73368	120631	acctaccaagtgggcatgaacgata	AA089333
35424	acaacttctcttttacactgcagag	U21960	78028	cactcaagccaagattgaatgtctg	D73368	120632	tgtgtcggatgggtgctctgagaat	AA089333
35425	tctcttttacactgcagagtctcta	U21960	78029	atgtctgacatgaaccgtgaatgat	D73368	120633	gtgctctgagaattccccgacagtc	AA089333
35426	ttacactgcagagtctctaaaaggg	U21960	78030	tctgacatgaaccgtgaatgatctt	D73368	120634	gctctgagaattccccgacagtctc	AA089333
35427	ttggaccccaagatatagatgaact	U28724	78031	agatgcagatgagcccgatggtgca	U48804	120635	tgagaattccccgacagtctccgaa	AA089333
35428	taagtgacagccctggggtcatgtg	U28724	78032	agatgagcccgatggtgcagacatt	U48804	120636	ttccccgacagtctccgaagactgt	AA089333

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
35429	caaccatgaggcacgttgccaatct	U28724	78033	cagacaccagaattctcacactggt	U48804	120637	ccccgacagtctccgaagactgtca	AA089333
35430	ccaatctggatgtcatctctcagaa	U28724	78034	ccagaattctcacactggttgagta	U48804	120638	tggactaccattgggatctctggaa	AA089333
35431	tggatgtcatctctcagaactgaca	U28724	78035	acataccggacttcacatcaaagac	U48804	120639	gacagtctccgaagactgtcacttt	AA089333
35432	acacccctgtagcatagagtttat	U28724	78036	cggacttcacatcaaagactttcac	U48804	120640	ctaccattgggatctctggaagaaa	AA089333
35433	gttcctctagctcagctacttgggt	U28724	78037	ctttcactctcatcacagactgaaa	U48804	120641	agaagtacggcgtctcatcgtggga	AA089333
35434	cagctacttgggtgatccggtggga	U28724	78038	attgaacgcagggactctttcagtt	U48804	120642	taatgattcacaatctcgaatattc	AA089333
35435	tgtgagcccaggactttgagaccac	U28724	78039	cgcagggactctttcagttttagct	U48804	120643	atgattcacaatctcgaatattcta	AA089333
35436	agaccactccgagccacattcatga	U28724	78040	ttcagttttagctgttccctatgga	U48804	120644	ttcacaatctcgaatattctatggg	AA089333
35437	ctccgagccacattcatgagactca	U28724	78041	tttagctgttccctatggaacatca	U48804	120645	cacaatctcgaatattctatgggaa	AA089333
35438	ttcatgagactcaattcaaggacaa	U28724	78042	tgttccctatggaacatcaggatat	U48804	120646	atctcgaatattctatgggaatgca	AA089333
35439	gccggccctcacgagtcagacagat	U28724	78043	accatactacaactgtcatgaatgc	U48804	120647	atctcaatgtggctcatgaagaaat	D38077
35440	cctcacgagtcagacagatgtttgc	U28724	78044	cgcagaaacgttcgcttccagctca	U48804	120648	ctggctttactccccaggagcgcca	D38077
35441	tgtttgcttccagagcctgtcggaa	U28724	78045	agcctttggcgagcatctgaaaagt	U48804	120649	ctcttttacctgcattgtgtgacag	D38077
35442	cttccagagcctgtcggaagtcagt	U28724	78046	gatcatcttcgagccggccaatgct	U48804	120650	tacctgcattgtgtgacagcaagat	D38077
35443	gagcctgtcggaagtcagtgatgat	U28724	78047	caatgctcctggagagtgctctggc	U48804	120651	ccaaggctcttggcagtgaccactg	D38077
35444	cggcgctcaatgcgagcgagatgaa	U28724	78048	tcctggagagtgctctggctacatt	U48804	120652	ctcttggcagtgaccactgtcccat	D38077
35445	cccacggcaggccaaccatgaggca	U28724	78049	tgaacgggccagcaccagtgcaggt	U48804	120653	tttacctagcactgtgataccctcc	D38077
35446	gcaggccaaccatgaggcacgttgc	U28724	78050	ccttgccagacaccagaattctcac	U48804	120654	tgtgataccctcctgcagtagcttc	D38077
35447	aatatcgagaccagattcctagtcc	AA002979	78051	gccctgaacgctaaggccaaccgtg	AA087943	120655	ctgcagtagcttcctgcctgggaga	D38077
35448	atcgagaccagattcctagtccagg	AA002979	78052	ttgagaccttgaacacccgagccat	AA087943	120656	atggctctctctgcagaagtctggt	D38077
35449	aaccgcagactgccttggaatatac	AA002979	78053	tccaggctgtgctgtgcgtgtatgc	AA087943	120657	ctctctgcagaagtctggtgtttta	D38077
35450	ccgcagactgccttggaatatacat	AA002979	78054	tgtgcgtgtatgcctctggtcgtac	AA087943	120658	tgtgctccctcattttaaacattaa	D38077
35451	cgcagactgccttggaatatacatt	AA002979	78055	cctctggtcgtaccacgaggcattg	AA087943	120659	tacaagctgtaccattggctgacag	D38077
35452	aatatacattcagcatgtctgaggc	AA002979	78056	tctggtcgtaccacgaggcattgtg	AA087943	120660	cattggctgacagcttccggcatct	D38077
35453	tatacattcagcatgtctgaggcaa	AA002979	78057	tggtcgtaccacgaggcattgtgat	AA087943	120661	ccaacactgcttacgcttacacttt	D38077
35454	atacattcagcatgtctgaggcaaa	AA002979	78058	gtcgtaccacgaggcattgtgatgg	AA087943	120662	ctgcttacgcttacactttctggac	D38077
35455	acattcagcatgtctgaggcaaaga	AA002979	78059	cgtaccacgaggcattgtgatggac	AA087943	120663	acgcttacactttctggacttacat	D38077
35456	cattcagcatgtctgaggcaaagac	AA002979	78060	taccacgaggcattgtgatggactg	AA087943	120664	acactttctggacttacatgatgaa	D38077
35457	ttcagcatgtctgaggcaaagactt	AA002979	78061	tcaccacactgtgcccatctacgag	AA087943	120665	atgcccgctctaagaatgttggttg	D38077
35458	tcagcatgtctgaggcaaagacttt	AA002979	78062	accacactgtgcccatctacgaggg	AA087943	120666	cccactctcttttacctgcattgtg	D38077
35459	cgagaccagattcctagtccaggac	AA002979	78063	gagaccttgaacacccgagccatgt	AA087943	120667	tcaaattcggtgcagcccggaatcc	W30059
35460	gagaccagattcctagtccaggact	AA002979	78064	gaccttgaacacccgagccatgtac	AA087943	120668	attcggtgcagcccggaatcccgag	W30059
35461	gaccagattcctagtccaggactta	AA002979	78065	ttgaacacccgagccatgtacgtag	AA087943	120669	aaactggcaatacttctcccagagc	W30059
35462	cagattcctagtccaggacttatgg	AA002979	78066	gaacacccgagccatgtacgtagcc	AA087943	120670	tggcaatacttctcccagagcgatc	W30059
35463	agattcctagtccaggacttatggt	AA002979	78067	cgtagccatccaggctgtgctgtgc	AA087943	120671	aatacttctcccagagcgatctcac	W30059
35464	ttcccaaaccgcagactgccttgga	AA002979	78068	tagccatccaggctgtgctgtgcgt	AA087943	120672	tacttctcccagagcgatctcacgg	W30059
35465	cccaaaccgcagactgccttggaat	AA002979	78069	gccatccaggctgtgctgtgcgtgt	AA087943	120673	tctcccagagcgatctcacgggccg	W30059
35466	ccaaaccgcagactgccttggaata	AA002979	78070	catccaggctgtgctgtgcgtgtat	AA087943	120674	tcccagagcgatctcacgggccgac	W30059
35467	tgtcctggaattcagcgagatctgc	U34973	78071	caccttcttcaatctaaggacttgt	U60881	120675	atctcacgggccgaccgagagagga	W30059
35468	ccccctctgcctctgaagcaaaggca	U34973	78072	gacttgttttggggctcctatccag	U60881	120676	agcatgagactccacagaggtgccc	W30059
35469	caagtggcaaccgcacagaacggct	U34973	78073	cagccactttaactgcgcctatttg	U60881	120677	catgagactccacagaggtgcccct	W30059
35470	gcaaccgcacagaacggctgacctg	U34973	78074	tggctgtgtgtcctcaagagcagtc	U60881	120678	tgagactccacagaggtgcccctgc	W30059
35471	aacggctgacctgtgaggactgtta	U34973	78075	agcagtcgggcagccagaggcaccc	U60881	120679	aagtgcagccgagcctgtggttcca	W30059
35472	actgttacatgggtgtgagcttcca	U34973	78076	tctggctctgcaatcaggaaagaca	U60881	120680	gtgcagccgagcctgtggttccact	W30059
35473	cttttcaattatacattgcttccag	U34973	78077	cttggacccaaggaagctgcagctc	U60881	120681	agccgagcctgtggttccactccag	W30059
35474	aattatacattgcttccagacatgt	U34973	78078	ctccagagctggaccctgaaagcct	U60881	120682	ctcccgcatccaacaaactggcaat	W30059
35475	cttccagacatgtttctctgcaaca	U34973	78079	agctggaccctgaaagcctcttagg	U60881	120683	cccgcatccaacaaactggcaatac	W30059
35476	tttctctgcaacactttaagatgtt	U34973	78080	ctaatgaccttactatgaagaaggg	U60881	120684	cgcatccaacaaactggcaatactt	W30059
35477	agatgttgcacttatgcagtagatg	U34973	78081	taggagccacctgtccaaccagagt	U60881	120685	tccaacaaactggcaatacttctcc	W30059
35478	tgcacttatgcagtagatggcactg	U34973	78082	ggctactcaattaaacagagttgtg	U60881	120686	caacaaactggcaatacttctccca	W30059
35479	tgcctctgaagcaaaggcaggtata	U34973	78083	ttttggggctcctatccaggcgttg	U60881	120687	ttcccttctgccgctgctgcttctg	AA137524
35480	atcactgtgcattcaagactagtaa	U34973	78084	ggctcctatccaggcgttgtctgtc	U60881	120688	ctccacgttattgcgggacgaagag	AA137524
35481	acagcttttagggctagagagatgg	U34973	78085	ggcgttgtctgtcttccctgaggag	U60881	120689	acagtcagatcacgcgcctgtacag	AA137524
35482	gccatctacttagcaaaattaacaa	U34973	78086	cccacacgaagtcttcttggtcact	U60881	120690	cagtcagatcacgcgcctgtacagc	AA137524
35483	atgatgtcaccactccaaatagaaa	U34973	78087	ctcccaggatggagcccagagcata	U60881	120691	gtcagatcacgcgcctgtacagccg	AA137524
35484	ttagctgttcattctggtaccacag	U34973	78088	agtgactctctcgagttatgatcag	U60881	120692	tcagatcacgcgcctgtacagccgc	AA137524
35485	gttcattctggtaccacaggtagtg	U34973	78089	tctctcgagttatgatcagacctgc	U60881	120693	agatcacgcgcctgtacagccgctt	AA137524
35486	aacatgcaagtggcaaccgcacaga	U34973	78090	gacctgcagccactttaactgcgcc	U60881	120694	acagccgcttcaccagcctggacaa	AA137524
35487	tcttcattagctattaacagatatc	U42467	78091	aatggatgccactttaacagcacga	AA087986	120695	gccgcttcaccagcctggacaaagg	AA137524
35488	tagaagttttctgaccactgataag	U42467	78092	tgccactttaacagcacgagagatc	AA087986	120696	ggactctcagccgggaagatttcca	AA137524
35489	catgagctcaactgcacactctgtg	U42467	78093	gttcataccctcttcctaaacaca	AA087986	120697	gactctcagccgggaagatttccag	AA137524
35490	tgagctcaactgcacactctgtgtg	U42467	78094	cataccctcttcctaaacacaatc	AA087986	120698	ctctcagccgggaagatttccagag	AA137524
35491	agctcaactgcacactctgtgtggt	U42467	78095	cttcctaaacacaatcgacccatct	AA087986	120699	cgttattgcgggacgaagagctcga	AA137524
35492	caactgcacactctgtgtggttttc	U42467	78096	cccatctcaccctatggcgaacgtg	AA087986	120700	agactggcttttcccacagtcagat	AA137524
35493	tgcacactctgtgtggttttcattt	U42467	78097	atctcaccctatggcgaacgtgagc	AA087986	120701	gactggcttttcccacagtcagatc	AA137524
35494	ttcatttttccacattggtggaatg	U42467	78098	cagagctgccaatacccagaaatgc	AA087986	120702	ctggcttttcccacagtcagatcac	AA137524
35495	catttttccacattggtggaatgaa	U42467	78099	agctgccaatacccagaaatgcatc	AA087986	120703	tggcttttcccacagtcagatcacg	AA137524
35496	agatgctgagctgagttagggtttt	U42467	78100	tgccaatacccagaaatgcatccga	AA087986	120704	gcttttcccacagtcagatcacgcg	AA137524

TABLE 1

SEQ ID NO	sequence	DBAxnID
35497	atgctgagctgagttagggttttga	U42467
35498	atcacaaaggttctgtcggacacaa	U42467
35499	gaagttttctgaccactgataagat	U42467
35500	ttctgaccactgataagatatagtt	U42467
35501	tagtgaaaccttcctgatgaatctg	U42467
35502	aaccttcctgatgaatctgtttaag	U42467
35503	ccttcctgatgaatctgtttaagag	U42467
35504	ctcattaagaaccttagggatcat	U42467
35505	aagacgcatgagctcaactgcacac	U42467
35506	cgcatgagctcaactgcacactctg	U42467
35507	acaagtgcttcagccagagctccca	AA003172
35508	caagtgcttcagccagagctcccat	AA003172
35509	gatccgccaggtaaagggagccact	AA003172
35510	aaagccgctccgaagagtggatgct	AA003172
35511	aagccgctccgaagagtggatgctt	AA003172
35512	agccgctccgaagagtggatgcttt	AA003172
35513	gccgctccgaagagtggatgcttta	AA003172
35514	ccgctccgaagagtggatgctttac	AA003172
35515	ctttacagtagagcacttagatacc	AA003172
35516	aagtgcttcagccagagctcccatc	AA003172
35517	gtgcttcagccagagctcccatctg	AA003172
35518	gagctcccatctgaggcagcacatg	AA003172
35519	gctcccatctgaggcagcacatgaa	AA003172
35520	ctcccatctgaggcagcacatgaag	AA003172
35521	cccatctgaggcagcacatgaaggt	AA003172
35522	ccatctgaggcagcacatgaaggtg	AA003172
35523	catctgaggcagcacatgaaggtgc	AA003172
35524	acctggaactggccatcgccctcag	U29156
35525	aactggccatcgccctcagcaaggc	U29156
35526	acagggaccttgttgagaggcctca	U29156
35527	accttgttgagaggcctcagacact	U29156
35528	ttgagaggcctcagacactgctcac	U29156
35529	aagtcctggaacctgccagtctctg	U29156
35530	ctgccagtctctgaggtatgatggt	U29156
35531	gttaggctcttccttccaatcattc	U29156
35532	ctcttccttccaatcattcagtggc	U29156
35533	gagaaggcctccagtctcctagctg	U29156
35534	gcctccagtctcctagctgcagaca	U29156
35535	agtctcctagctgcagacaagctcc	U29156
35536	ccatcgccctcagcaaggctgatat	U29156
35537	agctgtatgtacacatcccttcaag	U29156
35538	acatcccttcaagttgtgccatgcc	U29156
35539	cttcaagttgtgccatgccacagcc	U29156
35540	cacagccaaggacagctggccacag	U29156
35541	caaggacagctggccacagggcctc	U29156
35542	gggcctcaggctacagggaccttgt	U29156
35543	caggctacagggaccttgttgagag	U29156
35544	tgtcacagcaagagaactggaagaa	AA104878
35545	aaccaaccagaagctagttgctgag	AA104878
35546	atgcctgcaaaccaacattgatcac	AA104878
35547	cctgcaaaccaacattgatcacctg	AA104878
35548	gcaaaccaacattgatcacctgcag	AA104878
35549	cattgatcacctgcagagccaagtg	AA104878
35550	tgatcacctgcagagccaagtggag	AA104878
35551	cctgcagagccaagtggaggagctg	AA104878
35552	gaagtcttccagccaaggaagaggg	AA104878
35553	cagcttctcctgtctgaaagagctg	AA104878
35554	cttctcctgtctgaaagagctgtat	AA104878
35555	ctcctgtctgaaagagctgtatgac	AA104878
35556	caaccagaagctagttgctgagagc	AA104878
35557	ccaacactttgtgtatgaccacgtg	AA104878
35558	gagcaaggcctcacagcagaaaatc	AA104878
35559	caaggcctcacagcagaaaatcctc	AA104878
35560	ggcctcacagcagaaaatcctcagc	AA104878
35561	gcagaaaatcctcagcctgacagaa	AA104878
35562	cctcagcctgacagaaacaattgaa	AA104878
35563	cagcctgacagaaacaattgaatgc	AA104878
35564	aattgaatgcctgcaaaccaacatt	AA104878
78101	caatacccagaaatgcatccgagct	AA087986
78102	tacccagaaatgcatccgagctggg	AA087986
78103	cactttaacagcacgagagatccga	AA087986
78104	tttaacagcacgagagatccgagag	AA087986
78105	aacagcacgagagatccgagagctg	AA087986
78106	aaatttcttcagacgaaatgagcac	AA087986
78107	acgaaatgagcacacctatgtccac	AA087986
78108	aaatgagcacacctatgtccactct	AA087986
78109	caacgctggcatgaaccagttcata	AA087986
78110	catgaaccagttcatacccatcttc	AA087986
78111	agtaacaatcgacagcaatgcgaaa	X98111
78112	gtaacaatcgacagcaatgcgaaag	X98111
78113	gcctgccatgagagtcacagatagc	X98111
78114	cctgccatgagagtcacagatagca	X98111
78115	acagatttccattcattcatatgga	X98111
78116	gatttccattcattcatatggacag	X98111
78117	ctccatctgcttcctacgactattt	X98111
78118	tccatctgcttcctacgactatttt	X98111
78119	atctgcttcctacgactatttttct	X98111
78120	ttctccctttttatgtgagattaaag	X98111
78121	ctccctttttatgtgagattaaagca	X98111
78122	gattaaagcatgctcccttggcctt	X98111
78123	aatcgacagcaatgcgaaagttgaa	X98111
78124	ttaaagcatgctcccttggccttcc	X98111
78125	acagcgcatgtgcaagtcgatgtga	X98111
78126	agcgcatgtgcaagtcgatgtgaac	X98111
78127	caagcttgtgacacagcctgccatg	X98111
78128	aagcttgtgacacagcctgccatga	X98111
78129	gcttgtgacacagcctgccatgaga	X98111
78130	cttgtgacacagcctgccatgagag	X98111
78131	cagcctgccatgagagtcacagata	X98111
78132	catggcggttcttggcgtcacgttg	AA087980
78133	gcggttcttggcgtcacgttgcctt	AA087980
78134	ccaatgtccttgctttgtggacata	AA087980
78135	aatgtccttgctttgtggacatatg	AA087980
78136	tgtccttgctttgtggacatatgtc	AA087980
78137	atatgtcagctggatttgatggatg	AA087980
78138	atgtcagctggatttgatggatgtt	AA087980
78139	tgagcgcttcgggtcggtgatcaca	AA087980
78140	ggcgttgtccttcgtagctaggagg	AA087980
78141	cgttgtccttcgtagctaggaggct	AA087980
78142	ttgtccttcgtagctaggaggctgt	AA087980
78143	gtccttcgtagctaggaggctgtca	AA087980
78144	ggttcttggcgtcacgttgccttgc	AA087980
78145	cttggcgtcacgttgccttgcttgt	AA087980
78146	gtcacgttgccttgcttgtctgaat	AA087980
78147	tctgaatagccaagctcctcctcgg	AA087980
78148	tgaatagccaagctcctcctcggtg	AA087980
78149	cctcctcggtgtccgtctggataca	AA087980
78150	tcctcggtgtccgtctggatacagg	AA087980
78151	tcccaatgtccttgctttgtggaca	AA087980
78152	ggcctccgatcactgtgactgccag	AA088003
78153	ctccgatcactgtgactgccagcga	AA088003
78154	tgctaattccaaatagctgggagat	AA088003
78155	agatccaataggggctgccttggta	AA088003
78156	tccaataggggctgccttggtaaag	AA088003
78157	agattctggaatgcatctggggcag	AA088003
78158	ttctggaatgcatctggggcagcct	AA088003
78159	tggaatgcatctggggcagcctttg	AA088003
78160	gcatctggggcagcctttgccatcg	AA088003
78161	tttgccatcgtccaggagcaggagc	AA088003
78162	atcattctgacaatgctgttggtat	AA088003
78163	tgtatgggtgctgtcaatgagaaga	AA088003
78164	cgatcactgtgactgccagcgacac	AA088003
78165	ctgtgactgccagcgacacagcagg	AA088003
78166	tgactgccagcgacacagcagggtt	AA088003
78167	ctgccagcgacacagcagggttgaa	AA088003
78168	tgaagtgtccaccgctgctaattcc	AA088003
120705	tttcccacagtcagatcacgcgcct	AA137524
120706	ccacagtcagatcacgcgcctgtac	AA137524
120707	aacttctaccccagagacatcaatg	
120708	cgagatggcatcctgaccagttata	
120709	cacaagacgtcaacttcgcccatcg	
120710	acttcgcccatcgtcaagagcttca	
120711	agcttcaacaggaatgagtgttaga	
120712	agccaaaggtcctgaggtgccacac	
120713	cagctccatcctatctatcctccta	
120714	ccacaagcaacctaccactgttgca	
120715	gcaacctaccactgttgcagtgctc	
120716	tgttgcagtgctccaaacctcctcc	
120717	tcccttccttggcttttatcatgc	
120718	tccttggcttttatcatgctaatat	
120719	ggcatcctgaccagttatactgatc	
120720	agcaaagacagcacctacagcttga	
120721	acctacagcttgagcagcaccctca	
120722	agcttgagcagcaccctcacattga	
120723	cgacataacagctatacctgtgagg	
120724	tatacctgtgaggccactcacaaga	
120725	tgtgaggccactcacaagacgtcaa	
120726	gccactcacaagacgtcaacttcgc	
120727	cgagatggcatcctgaccagttata	
120728	ggcatcctgaccagttatactgatc	
120729	gcatcctgaccagttatactgatca	
120730	catcctgaccagttatactgatcag	
120731	agacgtcaacttcgcccatcgtcaa	
120732	agccaaaggtcctgaggtgccacac	
120733	atctatcctcctaaggtcttggaga	
120734	tctatcctcctaaggtcttggagac	
120735	ctatcctcctaaggtcttggagact	
120736	tatcctcctaaggtcttggagactt	
120737	cgagatggcatcctgaccagttata	
120738	ggcatcctgaccagttatactgatc	
120739	gaggtgccacaccaccagctcccca	
120740	atctatcctcctaaggtcttggaga	
120741	tctatcctcctaaggtcttggagac	
120742	ctatcctcctaaggtcttggagact	
120743	tatcctcctaaggtcttggagactt	
120744	gcatcctgaccagttatactgatca	
120745	catcctgaccagttatactgatcag	
120746	atcctgaccagttatactgatcagg	
120747	agacgtcaacttcgcccatcgtcaa	
120748	agccaaaggtcctgaggtgccacac	
120749	cctgaggtgccacaccaccagctcc	
120750	ctgaggtgccacaccaccagctccc	
120751	tgaggtgccacaccaccagctcccc	
120752	ccatgccagcctgtagcacctgagg	W30129
120753	taccaatcttttgtgcgtattttca	W30129
120754	ctctgcttctgtgaccactgtcaat	W30129
120755	ctgcttctgtgaccactgtcaatct	W30129
120756	gcttctgtgaccactgtcaatctct	W30129
120757	ttctgtgaccactgtcaatctcttg	W30129
120758	gtgaccactgtcaatctcttgtcgt	W30129
120759	ccactgtcaatctcttgtcgtactt	W30129
120760	actgtcaatctcttgtcgtacttag	W30129
120761	tcaatctcttgtcgtacttagtagt	W30129
120762	aatctcttgtcgtacttagtagtga	W30129
120763	tctcttgtcgtacttagtagtgaaa	W30129
120764	ttcctaagcattttcattccgtcct	W30129
120765	taagcattttcattccgtccttctt	W30129
120766	gctcatttgacctggctgtgtatct	W30129
120767	tcatttgacctggctgtgtatctgc	W30129
120768	ttgacctggctgtgtatctgctctg	W30129
120769	gacctggctgtgtatctgctctgct	W30129
120770	tgtatctgctctgcttctgtgacca	W30129
120771	tctgctctgcttctgtgaccactgt	W30129
120772	ccaagcccaagtccatcttcaggaa	W30133

TABLE 1

SEQ ID NO	sequence	DBAxnID
35565	ggctacaacacagactacggcgctg	AA003209
35566	aacacagactacggcgctgacgact	AA003209
35567	cgggtctctatggcagtgtcattgt	AA003209
35568	tcactggcggcaacactctgcttca	AA003209
35569	gcggcaacactctgcttcaggggtt	AA003209
35570	acactctgcttcaggggttcacaga	AA003209
35571	tgcttcaggggttcacagacagact	AA003209
35572	tcacagacagacttaatcgggagct	AA003209
35573	ttaatcgggagctttctcagaagac	AA003209
35574	cgagcatgcgtcttaagctcatcgc	AA003209
35575	ttaagctcatcgccagcaacagcac	AA003209
35576	tcatcgccagcaacagcaccatgga	AA003209
35577	gactacggcgctgacgacttcgaat	AA003209
35578	agggcctgtttgatccctctaatgt	AA003209
35579	tgtttgatccctctaatgtcaaggg	AA003209
35580	atccctctaatgtcaagggcctgtc	AA003209
35581	tcaagggcctgtccgggaataccat	AA003209
35582	tggtcaccaccagcatcggcatgtg	AA003209
35583	gtgacattgacattcgcccgggtct	AA003209
35584	ttgacattcgcccgggtctctatgg	AA003209
35585	tccttacttttgcactttcagaaga	U35646
35586	cttttgcactttcagaagaggtccg	U35646
35587	tcctgctgaatgctgcttggctcaa	U35646
35588	ctgcttggctcaagcgagatgctga	U35646
35589	atgctgacagcattcaccagtacct	U35646
35590	ttcaccagtacctccttcagcggaa	U35646
35591	cctcactgcctctctgcagggatga	U35646
35592	tgcctctctgcagggatgaggtgga	U35646
35593	agctaccaaacagctgactcacatg	U35646
35594	caaacagctgactcacatgccaaga	U35646
35595	aatctggagtcttacaccagtgggg	U35646
35596	gtaggtccctgctcacactccagaa	U35646
35597	cactttcagaagaggtccgtccgca	U35646
35598	gtccgcaggacactgtgtcggtgat	U35646
35599	aattcatcaaggacaactgggagga	U35646
35600	taatatccagactaataaagctctc	U35646
35601	taataaagctctcagttgaggggtt	U35646
35602	aggctttcttcgagagtcacccagc	U35646
35603	tcttcgagagtcacccagctccttc	U35646
35604	agcgcaccatccagcagtgttgtga	U35646
35605	cacaactccagaagacttcctcagc	AA003093
35606	agaagacttcctcagcaacatggac	AA003093
35607	gatccctctcttcaatgatgtagag	AA003093
35608	ccctctcttcaatgatgtagagtct	AA003093
35609	tctcttcaatgatgtagagtctgct	AA003093
35610	agagtctgctctgaacaaaagcgag	AA003093
35611	gtctgctctgaacaaaagcgagccc	AA003093
35612	gccctttctaacctggctgtaatca	AA003093
35613	ctttctaacctggctgtaatcacta	AA003093
35614	tctaacctggctgtaatcactactg	AA003093
35615	aacctggctgtaatcactactgttg	AA003093
35616	ctggctgtaatcactactgttgtaa	AA003093
35617	agacttcctcagcaacatggacgag	AA003093
35618	gctgtaatcactactgttgtaacgt	AA003093
35619	cttcctcagcaacatggacgagatg	AA003093
35620	tgaaaattccggtcagacacccatg	AA003093
35621	cggtcagacacccatgaccgtcaat	AA003093
35622	cttccctgatttcctggactgcctt	AA003093
35623	ccctgatttcctggactgccttcca	AA003093
35624	cctggactgccttccaggaacaaat	AA003093
35625	ggactgccttccaggaacaaatgtt	AA003093
35626	aaacgtgccagagctgagcctctgg	AA003096
35627	cctggcctcaactgagccctcttgt	AA003096
35628	cagactcgtgacctctgcacctgca	AA003096
35629	gactcgtgacctctgcacctgcaaa	AA003096
35630	cgtgacctctgcacctgcaaacgtc	AA003096
35631	tgacctctgcacctgcaaacgtctt	AA003096
35632	acctctgcacctgcaaacgtcttca	AA003096

SEQ ID NO	sequence	DBAxnID
78169	agtgtccaccgctgctaattccaaa	AA088003
78170	caccgctgctaattccaaatagctg	AA088003
78171	cgctgctaattccaaatagctggga	AA088003
78172	tgctcctcaatgtagaagctccgtt	X65588
78173	tagaagctccgttcctttattcatg	X65588
78174	ggatcttactgagagccctggggtc	X65588
78175	tactgagagccctggggtcctgttg	X65588
78176	catagaccagccaaacctgtggggc	X65588
78177	ttgtactaacatcttctgtatgaag	X65588
78178	taacatcttctgtatgaagtagaaa	X65588
78179	ttgaagctagcctagggcacataac	X65588
78180	acataacaagtctcagaggccaacc	X65588
78181	caagtctcagaggccaacctgagct	X65588
78182	tcagaggccaacctgagctacaaag	X65588
78183	gccaacctgagctacaaagcaagct	X65588
78184	cgtggccccaggcgatacacacaag	X65588
78185	cccaggcgatacacacaagagcagg	X65588
78186	gttctgtctctacttactcaagggc	X65588
78187	tctctacttactcaagggcttcctt	X65588
78188	cttactcaagggcttccttgacaga	X65588
78189	cttccttgacagagagctttctgtg	X65588
78190	agttggctcctgaggagactgtcga	X65588
78191	ctgtcgaaccttagaagcagctaag	X65588
78192	agaccagcattgcagcacttacagt	Y07685
78193	gcattgcagcacttacagtcactaa	Y07685
78194	tgttctgtctctatgacaatatatt	Y07685
78195	tttaactgactttctagatgccttа	Y07685
78196	ggagtcactattcctggttatctca	Y07685
78197	actattcctggttatctcaacaacg	Y07685
78198	attcctggttatctcaacaacgaag	Y07685
78199	cctggttatctcaacaacgaaggct	Y07685
78200	tatctcaacaacgaaggctaggagg	Y07685
78201	tctctgtagcctttagttatccgta	Y07685
78202	ctgtagcctttagttatccgtacag	Y07685
78203	tagcctttagttatccgtacagatt	Y07685
78204	cagcacttacagtcactaattccct	Y07685
78205	gtcaatgacatctcactgatgctag	Y07685
78206	gacatctcactgatgctagactgca	Y07685
78207	atctcactgatgctagactgcagcc	Y07685
78208	atgctagactgcagcccctgcaccg	Y07685
78209	ccctgcaccgtagcctttgttacat	Y07685
78210	tgcaccgtagcctttgttacatgaa	Y07685
78211	acatgaagtccgctgggaaatagat	Y07685
78212	aggcatctcatccccggtgaagaag	Y07693
78213	catctcatccccggtgaagaagaca	Y07693
78214	cttgcgggacagtcctggtacctgg	Y07693
78215	tccttcatcaccggtggagtcccag	Y07693
78216	ttcatcaccggtggagtcccagggt	Y07693
78217	tgacagtcccagcctgcatttttgg	Y07693
78218	cagtcccagcctgcatttttggtgg	Y07693
78219	tcccagcctgcatttttggtggaaa	Y07693
78220	cagcctgcatttttggtggaaaatt	Y07693
78221	gcccctgcggactcccagctggatg	Y07693
78222	cctgcggactcccagctggatggaa	Y07693
78223	gcggactcccagctggatggaaaag	Y07693
78224	ctcatccccggtgaagaagacagag	Y07693
78225	gatggacaaatctccattcaacagc	Y07693
78226	ccacaggccggtcatcgcggtacac	Y07693
78227	ggtcatcgcggtacacagtggcatc	Y07693
78228	catcgcggtacacagtggcatcgcg	Y07693
78229	acacagtggcatcgcgcggagcccc	Y07693
78230	cccgctcaaggatctggtgtccctg	Y07693
78231	cctgcaaacagtccctttgtgggat	Y07693
78232	cccgtcactgcacagaagtaccggt	AA088054
78233	ccgtcactgcacagaagtaccggtg	AA088054
78234	gaatgtacatttcccaaatggtgca	AA088054
78235	aatgtacatttcccaaatggtgcaa	AA088054
78236	atgtacatttcccaaatggtgcaac	AA088054

SEQ ID NO	sequence	DBAxnID
120773	ccggtcaccatccatgcctggacag	W30133
120774	catcttgcaagctcagggactggct	W30133
120775	gcaagctcagggactggctgcgttg	W30133
120776	actggctgcgttggacctaggaggt	W30133
120777	tgcgttggacctaggaggttcctca	W30133
120778	aggaggttcctcagatccctatgtt	W30133
120779	aggttcctcagatccctatgttagt	W30133
120780	agatccctatgttagtgtctatctg	W30133
120781	tagtgtctatctgctgccagacaag	W30133
120782	tgtctatctgctgccagacaagcgg	W30133
120783	ctatctgctgccagacaagcggagg	W30133
120784	gtcaccatccatgcctggacagcag	W30133
120785	agacaaacaccagctaggccgactg	W30133
120786	gctaggccgactgcagtattcactg	W30133
120787	aggccgactgcagtattcactggac	W30133
120788	ccgactgcagtattcactggactat	W30133
120789	tgacttccagactggccagctcctg	W30133
120790	ccagactggccagctcctggtgggc	W30133
120791	cctggtgggcatcttgcaagctcag	W30133
120792	gaagccgcaggacgaagctgttctc	W85250
120793	cgaagctgttctcaccgctactctg	W85250
120794	gagtgccgtactccaagaggctcgg	W85250
120795	tgccgtactccaagaggctcgggtc	W85250
120796	tcccatcaatccccggaaatgtgct	W85250
120797	catcaatccccggaaatgtgctcac	W85250
120798	tccccggaaatgtgctcacatcctc	W85250
120799	gaaatgtgctcacatcctcaccaag	W85250
120800	catcctcaccaagatcctttatctc	W85250
120801	caccaagatcctttatctcataaac	W85250
120802	caagatcctttatctcataaaccag	W85250
120803	gatcctttatctcataaaccagggg	W85250
120804	agctgttctcaccgctactctgagc	W85250
120805	tgttctcaccgctactctgagcatc	W85250
120806	caccgctactctgagcatcttcctg	W85250
120807	gagcatcttcctgctgcgtggagct	W85250
120808	cttcctgctgcgtggagctaccgct	W85250
120809	taccgctgacaccatgttgaagaaa	W85250
120810	cgctgacaccatgttgaagaaattc	W85250
120811	cctccagcacctggagaagagtgcc	W85250
120812	aaggtgtcctgtccaatatctcgtc	W50192
120813	gtgtcctgtccaatatctcgtccat	W50192
120814	tgcatcggagcactgcgggaaaaca	W50192
120815	attattttcttcctggaactcactg	W50192
120816	attttcttcctggaactcactgctg	W50192
120817	gaactcactgctggggtgttggcat	W50192
120818	atcaaagaccagctgtatttcttta	W50192
120819	tatttctttattaacaacaacatca	W50192
120820	ttctttattaacaacaacatcagag	W50192
120821	tttattaacaacaacatcagagcct	W50192
120822	attaacaacaacatcagagcctaca	W50192
120823	atcagagcctacagagatgacattg	W50192
120824	tgtccaatatctcgtccatcaccga	W50192
120825	ccgacctcaggtggctttgacccag	W50192
120826	acctcaggtggctttgacccagtct	W50192
120827	ggtggctttgacccagtctggcttt	W50192
120828	tttgacccagtctggcttttcctcg	W50192
120829	gtgatgttcattctggggtttgcag	W50192
120830	atgttcattctggggtttgcagggt	W50192
120831	tttgcagggtgcatcggagcactgc	W50192
120832	aatgagcaggccatcatagacgtgc	AA032354
120833	tgagcaggccatcatagacgtgctc	AA032354
120834	ctacgaggccaaggagctgcacgat	AA032354
120835	ctgcacgatgccatgaagggcttag	AA032354
120836	agtcatcattgagatcctagcttct	AA032354
120837	atcattgagatcctagcttctcgga	AA032354
120838	cattgagatcctagcttctcggacc	AA032354
120839	gatcctagcttctcggaccaagaac	AA032354
120840	agcttctcggaccaagaaccagctg	AA032354

TABLE 1

SEQ ID NO	sequence	DBAxnID
35633	ctctgcacctgcaaacgtcttcact	AA003096
35634	ctgcaaacgtcttcactctccatgc	AA003096
35635	gcaaacgtcttcactctccatgctg	AA003096
35636	tccatgctgagccaagatggggaat	AA003096
35637	catgctgagccaagatggggaatcg	AA003096
35638	tggcctcaactgagccctcttgtcc	AA003096
35639	ctcaactgagccctcttgtcctttt	AA003096
35640	cttttcccccaatgagagaggagca	AA003096
35641	tttcccccaatgagagaggagcaag	AA003096
35642	tcccccaatgagagaggagcaaggt	AA003096
35643	acaataaacagactcgtgacctctg	AA003096
35644	taaacagactcgtgacctctgcacc	AA003096
35645	aacagactcgtgacctctgcacctg	AA003096
35646	actcgaattcactctggagaaaagc	U41465
35647	gagaagccgtacccctgtgaaatct	U41465
35648	gccatcaccaacaccaaggtgcaat	U41465
35649	accaacaccaaggtgcaataccgcg	U41465
35650	gagctccccaaagcctgctgaatga	U41465
35651	cccaaagcctgctgaatgaagcatg	U41465
35652	ccttctcagaatctacccaaaggat	U41465
35653	ttatacaaaggtcatcccatgatgt	U41465
35654	aaaggtcatcccatgatgtagtgcc	U41465
35655	tagtgcctctctcatccactagtgc	U41465
35656	ctctctcatccactagtgcaaatca	U41465
35657	catccactagtgcaaatcatagttg	U41465
35658	caccttcagactctgaagagccatc	U41465
35659	cagactctgaagagccatctgcgca	U41465
35660	ctgaagagccatctgcgcatccaca	U41465
35661	tgtaacctgcactttcgtcacaaaa	U41465
35662	ctgcactttcgtcacaaaagccaac	U41465
35663	agccaactgcgacttcatttgcgcc	U41465
35664	ctgcgacttcatttgcgccagaagc	U41465
35665	ttgcgccagaagcacggcgccatca	U41465
35666	tcctctgtgtaggttccagaactaa	AA003274
35667	cctctgtgtaggttccagaactaag	AA003274
35668	aatatagctgctgccactggcttag	AA003274
35669	atatagctgctgccactggcttagt	AA003274
35670	atagctgctgccactggcttagtct	AA003274
35671	tagctgctgccactggcttagtcta	AA003274
35672	agctgctgccactggcttagtctag	AA003274
35673	ctgctgccactggcttagtctagaa	AA003274
35674	tgctgccactggcttagtctagaag	AA003274
35675	gctgccactggcttagtctagaagg	AA003274
35676	tgccactggcttagtctagaaggcc	AA003274
35677	gccactggcttagtctagaaggccc	AA003274
35678	gtgtgacagcagtcgctcagtagac	AA003274
35679	ccactggcttagtctagaaggccca	AA003274
35680	tgtgacagcagtcgctcagtagaca	AA003274
35681	gtgacagcagtcgctcagtagacag	AA003274
35682	gcagtcgctcagtagacagtctaga	AA003274
35683	cagtcgctcagtagacagtctagag	AA003274
35684	agtcgctcagtagacagtctagaga	AA003274
35685	tcgctcagtagacagtctagagagc	AA003274
35686	gaatatagctgctgccactggctta	AA003274
35687	tgacttcctacagcaaaatgggtac	U13837
35688	cactccttatgacaggttctgtcca	U13837
35689	tctctataaactctcctccatgaaa	U13837
35690	ctcctccatgaaattcaaggatcca	U13837
35691	cgactatgcacagcttcttgaagat	U13837
35692	tgcacagcttcttgaagatatgcag	U13837
35693	tatgcagaatgcattccgtagcctt	U13837
35694	gaatgcattccgtagccttgaagac	U13837
35695	ctgaatttctcatctccaacccta	U13837
35696	acccttagcttccatattgtgcagc	U13837
35697	catattgtgcagctttgagactagt	U13837
35698	accttatctgaagtggtgaatgta	U13837
35699	caggttctgtccattctacaagaca	U13837
35700	ctgtccattctacaagacagtgggg	U13837

SEQ ID NO	sequence	DBAxnID
78237	gtacatttcccaaatggtgcaacct	AA088054
78238	tacatttcccaaatggtgcaacctt	AA088054
78239	ccaaatggtgcaacctttgacaaag	AA088054
78240	atggtgcaacctttgacaaaggccg	AA088054
78241	tggtgcaacctttgacaaaggccgc	AA088054
78242	gtgcaacctttgacaaaggccgctt	AA088054
78243	tgcaacctttgacaaaggccgcttt	AA088054
78244	tcactgcacagaagtaccggtgtaa	AA088054
78245	cactgcacagaagtaccggtgtaaa	AA088054
78246	ccgacgatgaggccgccatggggat	AA088054
78247	cgacgatgaggccgccatggggatt	AA088054
78248	acgatgaggccgccatggggattaa	AA088054
78249	gatgaggccgccatggggattaaga	AA088054
78250	tgaggccgccatggggattaagaac	AA088054
78251	gaggccgccatggggattaagaact	AA088054
78252	ctgcatatccagacttggagaaccc	AA104940
78253	catatccagacttggagaaccctcc	AA104940
78254	ctcagatgctcaaggcaaaggaaca	AA104940
78255	aagtcagtcccagagaaatcgcaga	AA104940
78256	ttgaaattgcgggtcctggtttcat	AA104940
78257	gtcctggtttcattaatgtgcacct	AA104940
78258	tcattaatgtgcacctgagaaaaga	AA104940
78259	ttaatgtgcacctgagaaaagactt	AA104940
78260	tgtcagaacagctaaccagtctcct	AA104940
78261	aacagctaaccagtctcctagtgaa	AA104940
78262	agctaaccagtctcctagtgaatgg	AA104940
78263	taaccagtctcctagtgaatggagt	AA104940
78264	ctcccctgatcgtgacaccaagtca	AA104940
78265	ccctgatcgtgacaccaagtcagca	AA104940
78266	tcgtgacaccaagtcagcagcccaa	AA104940
78267	tgacaccaagtcagcagcccaagtt	AA104940
78268	caccaagtcagcagcccaagtttgg	AA104940
78269	gtcagcagcccaagtttggagacta	AA104940
78270	agcagcccaagtttggagactatca	AA104940
78271	tttctcagatgctcaaggcaaagga	AA104940
78272	agcgccccaagtccatcgacgacag	Y07688
78273	ccatcgacgacagtgagatggagag	Y07688
78274	actcgctgaaggagtttgtgcagtt	Y07688
78275	ttgtgtgctctgacggctcgggtca	Y07688
78276	aggccaccggacagcattcacaacg	Y07688
78277	ccggacagcattcacaacgacaggc	Y07688
78278	agcattcacaacgacaggcgcctcc	Y07688
78279	ctctgccaaccggtttgtcagcatc	Y07688
78280	gtttgtcagcatcggatcccgggac	Y07688
78281	cggcaactttctgaacatcccacag	Y07688
78282	ctttctgaacatcccacagcagtct	Y07688
78283	ctggttcctctgattaagatcaaca	Y07688
78284	atgtgttctatcctgggacaggccg	Y07688
78285	ctggcagcagccagtctagcggatg	Y07688
78286	gcagccagtctagcggatggcccaa	Y07688
78287	tggatgcaggccctgcttctctaaa	Y07688
78288	ctgcttctctaaagaagtcaggaaa	Y07688
78289	ctttgcttgctggagtcagaccagg	Y07688
78290	ttgctggagtcagaccagggagccc	Y07688
78291	tcatccagcagtcgagcccgtattt	Y07688
78292	gctgacttggccattctccccaaca	AA087908
78293	gacttggccattctccccaacagcg	AA087908
78294	agaagcatctacatcctggatgacc	AA087908
78295	gcccatgtgggcaaccacatcttca	AA087908
78296	aaccacatcttcaacagtgctatcc	AA087908
78297	cacatcttcaacagtgctatccgga	AA087908
78298	atcttcaacagtgctatccggaagc	AA087908
78299	gctatccggaagcgcctcaagtcta	AA087908
78300	ctgtttgttacacaccagttacagt	AA087908
78301	acacaccagttacagtatctggtcg	AA087908
78302	caccagttacagtatctggtcgatt	AA087908
78303	cagtatctggtcgattgtgatgagg	AA087908
78304	ctccccaacagcgacctgactgaga	AA087908

SEQ ID NO	sequence	DBAxnID
120841	tctcggaccaagaaccagctgagag	AA032354
120842	tcggaccaagaaccagctgagagag	AA032354
120843	accaagaaccagctgagagagataa	AA032354
120844	caggccatcatagacgtgctcacca	AA032354
120845	gacctcactgagaccttaaagtcag	AA032354
120846	cctcactgagaccttaaagtcagag	AA032354
120847	atttgagagactcatcgtggccctc	AA032354
120848	gagagactcatcgtggccctcatgt	AA032354
120849	ccatacagctacgaggccaaggagc	AA032354
120850	atacagctacgaggccaaggagctg	AA032354
120851	agctacgaggccaaggagctgcacg	AA032354
120852	tatgactgtaacccctggtccagca	W30201
120853	gactgtaacccctggtccagcaaat	W30201
120854	ctcatctacttgaagtggtccgccc	W30201
120855	ttgaagtggtccgcccttgttgcac	W30201
120856	cttgttgcactgatgagctaacctg	W30201
120857	ctgatgagctaacctgtagggacac	W30201
120858	agctaacctgtagggacactatgtc	W30201
120859	tatcttaatcctactcagtgaagat	W30201
120860	cttaatcctactcagtgaagatgtt	W30201
120861	aatcctactcagtgaagatgttcac	W30201
120862	tgttcacgtaattcggctagttctg	W30201
120863	cgtaattcggctagttctgttgaat	W30201
120864	ccctggtccagcaaatacgccaatg	W30201
120865	tggtccagcaaatacgccaatgatg	W30201
120866	tacgccaatgatgtctctcacatgc	W30201
120867	aatgatgtctctcacatgcactgtg	W30201
120868	gtctctcacatgcactgtgtcctca	W30201
120869	cacatgcactgtgtcctcatctact	W30201
120870	atgcactgtgtcctcatctacttga	W30201
120871	gtcctcatctacttgaagtggtccg	W30201
120872	ttgactcctgtttgcagatgacttt	AA106674
120873	actcctgtttgcagatgactttgag	AA106674
120874	tgaatatggcccagatataggccca	AA106674
120875	atatggcccagatataggcccacct	AA106674
120876	agatataggcccaccttatcagagt	AA106674
120877	tataggcccaccttatcagagtctc	AA106674
120878	tcagagtctcccctatgggccagat	AA106674
120879	tctcccctatgggccagatctgtat	AA106674
120880	cccctatgggccagatctgtatcca	AA106674
120881	cgccttcgacatgccggactttgag	AA106674
120882	cgacatgccggactttgaggatgat	AA106674
120883	catgccggactttgaggatgatggt	AA106674
120884	cctgtttgcagatgactttgaggcc	AA106674
120885	tgactttgaggccctttgcaatgtg	AA106674
120886	tgaggccctttgcaatgtgctgcgt	AA106674
120887	ggccctttgcaatgtgctgcgtcca	AA106674
120888	cctttgcaatgtgctgcgtccacct	AA106674
120889	caatgtgctgcgtccacctgcctat	AA106674
120890	tgtgctgcgtccacctgcctatggc	AA106674
120891	tccctatgaatatggcccagatata	AA106674
120892	catcttgacaactatgctggctacg	W30289
120893	tcttgacaactatgctggctacgag	W30289
120894	ggcttacacaaaaatctgtgatcca	W30289
120895	cttacacaaaaatctgtgatccagg	W30289
120896	aatctgtgatccaggcctcactgcc	W30289
120897	tctgtgatccaggcctcactgcctt	W30289
120898	tgatccaggcctcactgcctttgaa	W30289
120899	ccaggcctcactgcctttgaacctg	W30289
120900	aggcctcactgcctttgaacctgaa	W30289
120901	cactgcctttgaacctgaagcattg	W30289
120902	gcctttgaacctgaagcattgggca	W30289
120903	agcattgggcaacttagtggaaggg	W30289
120904	ttgacaactatgctggctacgagaa	W30289
120905	gaaatttttcagcagccaagagttt	W30289
120906	caccaccattgaggatgaagacgtg	W30289
120907	tcatcaaagtcactgagcaactgat	W30289
120908	atcaaagtcactgagcaactgattg	W30289

TABLE 1

SEQ ID NO	sequence	DBAxnID
35701	gatgctgtccaacatgatttcattc	U13837
35702	ttcattctatgacatggcccgccga	U13837
35703	ctatgacatggcccgccgagctgtg	U13837
35704	ccgccgagctgtggagaccactgcc	U13837
35705	cactgcccagagtgacaataagatc	U13837
35706	cacatggtccattatccgggagcac	U13837
35707	tgcgtgctatgccatcggtaaggac	U13838
35708	gaacttcattactcagggtccctat	U13838
35709	gcgtgaccctcctgtgaagtactgg	U13838
35710	ccctcctgtgaagtactggttctgt	U13838
35711	gtactggttctgtttcctgattcct	U13838
35712	ccatcccacctatgagtgggagttt	U13838
35713	gtaactattgtgccagtgttgacag	U13838
35714	actattgtgccagtgttgacagttt	U13838
35715	agagatccctgctcagaaacctcac	U13838
35716	gatccctgctcagaaacctcaccttt	U13838
35717	ccctgctcagaaacctcacctttag	U13838
35718	tcagaaacctcacctttagtgcttc	U13838
35719	cttcattactcagggtccctatgaa	U13838
35720	gactttggacattggctggcagttg	U13838
35721	tttggacattggctggcagttgctt	U13838
35722	ggacattggctggcagttgcttcga	U13838
35723	tggctggcagttgcttcgaatcttc	U13838
35724	gcttcgaatcttccccaaagaaatg	U13838
35725	tcgaatcttccccaaagaaatgctg	U13838
35726	aatcttccccaaagaaatgctgaag	U13838
35727	gtaccagctgctggagcctcgaatg	U13841
35728	tgtgcaaatcgaccaggagcctacc	U13841
35729	tctgtctaataccggtaatcagtga	U13841
35730	gtctaataccggtaatcagtgacac	U13841
35731	cggtaatcagtgacacctctgcagc	U13841
35732	taatcagtgacacctctgcagctaa	U13841
35733	ctgcagctaatgccctcgctcagtg	U13841
35734	atgccctcgctcagtgtcaacagca	U13841
35735	tcatctgaggccacagctgttcact	U13841
35736	tctgaggccacagctgttcactggg	U13841
35737	gccacagctgttcactgggtttgca	U13841
35738	gctgttcactgggtttgcagcaggc	U13841
35739	aatcgaccaggagcctacctgcctg	U13841
35740	ccaggagcctacctgcctgaggaac	U13841
35741	gcctacctgcctgaggaacatagct	U13841
35742	tacctgcctgaggaacatagctggt	U13841
35743	ctgagcttcaggaggagcagttccc	U13841
35744	aggagcagttccccacggctgttct	U13841
35745	ctgttctcctggagaagcagattat	U13841
35746	tggcttcctctttctgtctaatacc	U13841
35747	gagctcaagcccaagaagaaagtct	AA051121
35748	tttgagaagctgcaggccgacttta	AA051121
35749	ggtaacatcagctagccagctctgt	AA051121
35750	atcagctagccagctctgtgccctc	AA051121
35751	atcccgtctgccggctcgacttgtt	AA051121
35752	tctgccggctcgacttgttgcatct	AA051121
35753	gccggctcgacttgttgcatctctc	AA051121
35754	tgttgcatctctcacccgttccaac	AA051121
35755	tctcacccgttccaacaaggtctga	AA051121
35756	ccgttccaacaaggtctgaactgct	AA051121
35757	caacaaggtctgaactgctgacaag	AA051121
35758	ggtctgaactgctgacaaggtgcag	AA051121
35759	gagtgcatcgcacagtggaagcaaa	AA051121
35760	aactgctgacaaggtgcaggacttg	AA051121
35761	tgcatcgcacagtggaagcaaacca	AA051121
35762	tggaagcaaaccaacttcatgacca	AA051121
35763	caaaccaacttcatgaccaagctgg	AA051121
35764	accaacttcatgaccaagctgggat	AA051121
35765	aacttcatgaccaagctgggattcg	AA051121
35766	atgaccaagctgggattcgtctcct	AA051121
35767	aagctgggattcgtctcctgtaaat	AA051121
35768	acccttcaggatcctatgtagctc	AA003413

SEQ ID NO	sequence	DBAxnID
78305	cccaacagcgacctgactgagattg	AA087908
78306	agcgacctgactgagattggagagc	AA087908
78307	cgaggagccaacctgagtggtggac	AA087908
78308	ggagccaacctgagtggtggacagc	AA087908
78309	cagagaatcagccttgctagagcct	AA087908
78310	atcagccttgctagagccttgtaca	AA087908
78311	cttgctagagccttgtacagtgata	AA087908
78312	aacattggcagcttatgaagcttgc	U72141
78313	acacactggagctcgttgagctggc	U72141
78314	cagagccttgcagtcatttcacatg	U72141
78315	gtcatttcacatgcgcagactctgg	U72141
78316	tcacatgcgcagactctggagagag	U72141
78317	gcaaacctgccatgggctacagatc	U72141
78318	ctgccatgggctacagatcccaata	U72141
78319	tgggctacagatcccaatacctgtg	U72141
78320	ctgagtcatgagcccagatccacag	U72141
78321	tccacagcagagcacaggctgccaa	U72141
78322	cacaggctgccaagatgtctactga	U72141
78323	ctgccaagatgtctactgaaagtcc	U72141
78324	atctccgtggactctgtgaaaatgc	U72141
78325	agcctcagggacaggctgcaacttg	U72141
78326	aggctgcaacttggagcccagcgca	U72141
78327	caacttggagcccagcgcatcactc	U72141
78328	ttgctggtgcagttcaccatctcac	U72141
78329	gtgcagttcaccatctcactggccc	U72141
78330	agatcccaggagtcacagcagagcc	U72141
78331	tcacagcagagccttgcagtcattt	U72141
78332	ccagcgctgtgcccaccttcagaag	AA088121
78333	gcgctgtgcccaccttcagaaggaa	AA088121
78334	cggagcgtacctggtctactgcacc	AA088121
78335	cctggtctactgcacctgttccatt	AA088121
78336	ggtctactgcacctgttccattacg	AA088121
78337	ctactgcacctgttccattacggtg	AA088121
78338	cacctgttccattacggtggaagag	AA088121
78339	ttccattacggtggaagagaacgag	AA088121
78340	agactatgccttgaagaagaggaat	AA088121
78341	tacccgcttccaagcaaggcgcgtt	AA088121
78342	ctcacactcacaatatggacggttt	AA088121
78343	acactcacaatatggacggtttctt	AA088121
78344	tgcccaccttcagaaggaactgctg	AA088121
78345	actgctgctcagtgctatcgactca	AA088121
78346	cagtgctatcgactcagtgaacgct	AA088121
78347	tgctatcgactcagtgaacgctgcc	AA088121
78348	ctcagtgaacgctgcctccaagacc	AA088121
78349	agtgaacgctgcctccaagaccgga	AA088121
78350	tgcctccaagaccggagcgtacctg	AA088121
78351	gaccggagcgtacctggtctactgc	AA088121
78352	gagcatcactgagcttctaagtccg	D50367
78353	catcactgagcttctaagtccgggt	D50367
78354	aggagcccactgatctaagtgtact	D50367
78355	cctcagttcacacgtttagcacaaa	D50367
78356	ttcacacgtttagcacaaagtactg	D50367
78357	atacagtccatctgctggagaaatg	D50367
78358	cagtccatctgctggagaaatgtaa	D50367
78359	tccatctgctggagaaatgtaaatc	D50367
78360	aatctagccaacaggtatgttctta	D50367
78361	ctagccaacaggtatgttcttacct	D50367
78362	tatgttcttacctgatacataaatg	D50367
78363	cttacctgatacataaatgacctga	D50367
78364	cactgagcttctaagtccgggtctt	D50367
78365	tctctgtttgttcacttaagataga	D50367
78366	tctcctactgaaggaaacctaagct	D50367
78367	aacctaagcttccgaacactgcaga	D50367
78368	agcttccgaacactgcagatcaaag	D50367
78369	ttccgaacactgcagatcaaaggga	D50367
78370	cttaactttaggagcccactgatct	D50367
78371	aactttaggagcccactgatctaag	D50367
78372	gtgctgaatctgtcttgtgaggctt	AA088962

SEQ ID NO	sequence	DBAxnID
120909	caaagtcactgagcaactgattgaa	W30289
120910	aagtcactgagcaactgattgaagc	W30289
120911	gaggcttacacaaaaatctgtgatc	W30289
120912	gtacatttttgctcaactgcttgtg	M15559
120913	catttttgctcaactgcttgtgagt	M15559
120914	tactgtacaagctgagcaaacagac	M15559
120915	gcaaacagactgacctcatgtcaga	M15559
120916	aacagactgacctcatgtcagattt	M15559
120917	agactgacctcatgtcagatttgtg	M15559
120918	ctgacctcatgtcagatttgtggga	M15559
120919	acctcatgtcagatttgtgggaaaa	M15559
120920	tttctctgaccttggcctatctaac	M15559
120921	tgaccttggcctatctaactggatc	M15559
120922	ccttggcctatctaactggatcagc	M15559
120923	tggcctatctaactggatcagcctc	M15559
120924	tgctcaactgcttgtgagttttggt	M15559
120925	tcaactgcttgtgagttttggtccc	M15559
120926	tggtcccattgtgtcctttgtatga	M15559
120927	tcccattgtgtcctttgtatgaagt	M15559
120928	cattgtgtcctttgtatgaagtttg	M15559
120929	tgtgtcctttgtatgaagtttgtgg	M15559
120930	aaatctagctactgtacaagctgag	M15559
120931	agctactgtacaagctgagcaaaca	M15559
120932	ccttctcagaagtgatcctggcaga	W30101
120933	tgatcctggcagaggacaagaggac	W30101
120934	accccaacattgtagccctggatga	W30101
120935	ccaacattgtagccctggatgacat	W30101
120936	ttgtagccctggatgacatctatga	W30101
120937	tagccctggatgacatctatgagag	W30101
120938	acctctacctcatcatgcagctggt	W30101
120939	tctacctcatcatgcagctggtttc	W30101
120940	acctcatcatgcagctggtttcagg	W30101
120941	tcatgcagctggtttcaggtggaga	W30101
120942	tgcagctggtttcaggtggagagct	W30101
120943	agctggtttcaggtggagagctgtt	W30101
120944	tggccatcaaatgcattgccaagaa	W30101
120945	gcattgccaagaaagccctggaggc	W30101
120946	agattgccgtcttacacaagatcaa	W30101
120947	ttgccgtcttacacaagatcaagca	W30101
120948	ccgtcttacacaagatcaagcaccc	W30101
120949	tacacaagatcaagcaccccaacat	W30101
120950	acaagatcaagcaccccaacattgt	W30101
120951	agcaccccaacattgtagccctgga	W30101
120952	acatacggtcagtgtgtagatgtct	W30250
120953	tgtagatgtctgcgggctctgggtc	W30250
120954	caatcagaggtgctcgtgtcctgtg	W30250
120955	atcagaggtgctcgtgtcctgtgga	W30250
120956	cagaggtgctcgtgtcctgtggaac	W30250
120957	ggtgctcgtgtcctgtggaacctaa	W30250
120958	tgctcgtgtcctgtggaacctaaac	W30250
120959	ctcgtgtcctgtggaacctaaacag	W30250
120960	tcctgtggaacctaaacaggaagag	W30250
120961	aagagctcaattccaagatgatgga	W30250
120962	gagctcaattccaagatgatggatt	W30250
120963	gctcaattccaagatgatggatttt	W30250
120964	gatgtctgcgggctctgggtcagaa	W30250
120965	gggtcagaatcctacgcaatcagag	W30250
120966	gtcagaatcctacgcaatcagaggt	W30250
120967	cagaatcctacgcaatcagaggtgc	W30250
120968	gaatcctacgcaatcagaggtgctc	W30250
120969	atcctacgcaatcagaggtgctcgt	W30250
120970	tacgcaatcagaggtgctcgtgtcc	W30250
120971	cgcaatcagaggtgctcgtgtcctg	W30250
120972	tttttctatgactatgccactgtgc	AA036058
120973	ttctatgactatgccactgtgcaga	AA036058
120974	atcatcatcatcctgagcaagaagg	AA036058
120975	atcatcatcctgagcaagaaggtga	AA036058
120976	atcatcctgagcaagaaggtgaagt	AA036058

TABLE 1

SEQ ID NO	sequence	DBAxnID
35769	tcaggatcctatgtagctcccaaag	AA003413
35770	ctgactaacaaggccctgcaggtca	AA003413
35771	gccctgcaggtcatgacagattttg	AA003413
35772	gattttgctatccagttcaatcgta	AA003413
35773	gctatccagttcaatcgtaacagct	AA003413
35774	cagttcaatcgtaacagctttggct	AA003413
35775	aacagctttggcttggcccctgctg	AA003413
35776	gtggagatctccctgcctcttaaca	AA003413
35777	ctgcctcttaacacagtgggctcag	AA003413
35778	cttaacacagtgggctcagtcttga	AA003413
35779	aacacagtgggctcagtcttgaaga	AA003413
35780	tcctatgtagctcccaaagcagtct	AA003413
35781	acagtgggctcagtcttgaagatgg	AA003413
35782	gtagctcccaaagcagtctggctcc	AA003413
35783	tggctccctgccatgaaggccaagg	AA003413
35784	tctggcaccttcacccggcaggctg	AA003413
35785	acccggcaggctggctccatctcta	AA003413
35786	ggctccatctctatggacctgcagc	AA003413
35787	atctctatggacctgcagctgacta	AA003413
35788	atggacctgcagctgactaacaagg	AA003413
35789	gaccgacagcagttcaaggaggaga	L23423
35790	aagacaggcaccatccagaggagta	L23423
35791	caggcaggctgtcttctcaggagca	L23423
35792	gcaggctgtcttctcaggagcacag	L23423
35793	acttccccatacaatgctgtgaggc	L23423
35794	gcaggcatgtcctgatacagggtgg	L23423
35795	actgtgtcactgtctcagggccctt	L23423
35796	gtgtcactgtctcagggccctttac	L23423
35797	agccctctggccttactgtgctgta	L23423
35798	gccttactgtgctgtaccagtccag	L23423
35799	tgctgtaccagtccagtggttttgc	L23423
35800	tgtaccagtccagtggttttgctat	L23423
35801	gctgccgactggcatcctgagctgg	L23423
35802	ggtcctgatggacatccggtgccag	L23423
35803	ccagccactgcctaacatctgctgt	L23423
35804	ttcgccctttccaagatggctcct	L23423
35805	gccctttccaagatggctccttgg	L23423
35806	gatggctccttgggatggagatagt	L23423
35807	aagttgctagcatacgttgagatat	L23423
35808	ttgctagcatacgttgagatatggc	L23423
35809	tcaggagcccctaaactgcaacagc	U23922
35810	gcccctaaactgcaacagctgttca	U23922
35811	agcctcgcttggtatcctcagggca	U23922
35812	aaggctggaccctatcactggtctg	U23922
35813	ggaccctatcactggtctgtttatt	U23922
35814	ccttccagtctgaggggacatggtc	U23922
35815	catggtcagtcacaggctcattttg	U23922
35816	cagtcacaggctcattttgcctcca	U23922
35817	atgactctagagcgtcataaattag	U23922
35818	gcctagacattcacgggaagtttat	U23922
35819	tatgtctggactcagtttccctatt	U23922
35820	tggactcagtttccctattagagta	U23922
35821	aaactgcaacagctgttcataatgg	U23922
35822	ggccttcccagagactgagaaacta	U23922
35823	ctgttcataatggctgtcctatttt	U23922
35824	tgtgattcttgaggcccagagaagg	U23922
35825	tcttgaggcccagagaaggtgactg	U23922
35826	gtcttgcctgatgtcacacagcgtt	U23922
35827	cctgatgtcacacagcgtttgcagg	U23922
35828	gtcacacagcgtttgcaggacgcag	U23922
35829	cagcgtttgcaggacgcagacccag	U23922
35830	cattttgtcacagttcagacctgct	AA003426
35831	tttgtcacagttcagacctgcttcg	AA003426
35832	ttcgccaccaaagaattcacacagg	AA003426
35833	ccttcattcggagttcaagccttat	AA003426
35834	tcattcggagttcaagccttatccg	AA003426
35835	gttcaagccttatccgccattacca	AA003426
35836	gccttatccgccattaccagatcca	AA003426
78373	ctgaatctgtcttgtgaggcttcag	AA088962
78374	accttgaatgtccttgtgacgccag	AA088962
78375	aatgtccttgtgacgccagagcttc	AA088962
78376	gtccttgtgacgccagagcttctgg	AA088962
78377	cttgtgacgccagagcttctggaga	AA088962
78378	gtgacgccagagcttctggagacag	AA088962
78379	acgccagagcttctggagacaggtg	AA088962
78380	accaccattgttctgaagctggtca	AA088962
78381	accattgttctgaagctggtcactt	AA088962
78382	gttctgaagctggtcactttaacca	AA088962
78383	atacctgactccagccaaaccactg	AA088962
78384	accatctcctggaatgtcaatggtt	AA088962
78385	atctcctggaatgtcaatggttcgg	AA088962
78386	gaatggaacccagatccacagacag	AA088962
78387	tggaacccagatccacagacagtag	AA088962
78388	aacccagatccacagacagtagtga	AA088962
78389	ccagatccacagacagtagtgagca	AA088962
78390	gatccacagacagtagtgagcacct	AA088962
78391	gtgagcaccttgaatgtccttgtga	AA088962
78392	tcattctggcatgctttatcacaga	D26532
78393	tggcatgctttatcacagagctcaa	D26532
78394	gcccacctgtgcaggatgctcctca	D26532
78395	ctgtgcaggatgctcctcagaagct	D26532
78396	aggatgctcctcagaagctgcccct	D26532
78397	cccctgaccttggggtgcatcagt	D26532
78398	acctttggggtgcatcagtgtgata	D26532
78399	ctgcagtccgccatggctacggttc	D26532
78400	tccgccatggctacggttcagatgt	D26532
78401	atggctacggttcagatgtgcatcg	D26532
78402	cgctggttctgacatacatgtgctc	D26532
78403	ttctgacatacatgtgctcaaaatg	D26532
78404	gctttatcacagagctcaaccaagt	D26532
78405	tctgacatacatgtgctcaaaatga	D26532
78406	tcacagagctcaaccaagtaagctg	D26532
78407	agctcaaccaagtaagctgttggtc	D26532
78408	gtatttacatagacccaaaccactg	D26532
78409	acatagacccaaaccactgaatgtg	D26532
78410	ttgaggctgtaccccaaagatccaa	D26532
78411	ttccttctcccagtcttagtggaat	D26532
78412	ctcccagtcttagtggaatcagtca	D26532
78413	gccccagagatccttcaggagatgc	D90242
78414	ctgtatggacctgcagtagactggt	D90242
78415	agaatcaaatcccgagaagatgtca	D90242
78416	aaatcccgagaagatgtcagcaatt	D90242
78417	gagcccgtcttaactccgattgatg	D90242
78418	gtcttaactccgattgatgagggac	D90242
78419	catcttcctatgattaaccaggatg	D90242
78420	ttttcctatgtgtcaccggaattgc	D90242
78421	gaattgcaactgtagccttatgggg	D90242
78422	caactgtagccttatggggagtcag	D90242
78423	tagccttatggggagtcagaaccaa	D90242
78424	gatttctccaggaatttcttatgtg	D90242
78425	ctttatgagatgctgtgcggacatg	D90242
78426	gcgccctttgaggctgaaaatgaag	D90242
78427	ctttttgaggccatactgaatgatg	D90242
78428	atcctcaagtctttcatgaccaaga	D90242
78429	gcccagttgaaccatcgccagttag	D90242
78430	ttgaaccatcgccagttagagccgc	D90242
78431	catcgccagttagagccgcctttcc	D90242
78432	cgacctagaatcaaatcccgagaag	D90242
78433	tggtgcctttcccacagagcaagac	L24554
78434	ctttcccacagagcaagacaatgaa	L24554
78435	taaggagctacctgtcaacgcacaa	L24554
78436	gctacctgtcaacgcacaaaactat	L24554
78437	tgtcaacgcacaaaactatgttcgg	L24554
78438	tgagcttcaaataccagttaaatgg	L24554
78439	gtccatgattcagctcttctaagga	L24554
78440	gattcagctcttctaaggattgcca	L24554
120977	aaggcggattccaggtctgagagcc	AA036058
120978	tccaggtctgagagcccaacatgca	AA036058
120979	aggtctgagagcccaacatgcaaat	AA036058
120980	gagagcccaacatgcaaatcctgta	AA036058
120981	ccaacatgcaaatcctgtaagtcgg	AA036058
120982	acatgcaaatcctgtaagtcggaac	AA036058
120983	tgcaaatcctgtaagtcggaactgc	AA036058
120984	gactatgccactgtgcagactgtgg	AA036058
120985	tatgccactgtgcagactgtgggga	AA036058
120986	gccactgtgcagactgtggggatga	AA036058
120987	actgtgcagactgtggggatgaccc	AA036058
120988	gggatgaccctggccactatcatgt	AA036058
120989	accctggccactatcatgttcgtgc	AA036058
120990	gccactatcatgttcgtgctgggga	AA036058
120991	ttcgtgctggggatcatcatcatcc	AA036058
120992	ggttctacagcaagccttggagaag	W30594
120993	tctacagcaagccttggagaagttt	W30594
120994	gccccatcagtgtggaacaatccag	W30594
120995	aatccagcttgacttccagctgcca	W30594
120996	cttccagctgccactgagatttgac	W30594
120997	ccagctgccactgagatttgaccta	W30594
120998	gccggcagtaccccagagtgtccag	W30594
120999	ggcagtaccccagagtgtccagtcc	W30594
121000	gagtgtccagtccttattcatcgag	W30594
121001	ccagtccttattcatcgagcagtgc	W30594
121002	gtccttattcatcgagcagtgcttg	W30594
121003	catcgagcagtgcttggttctgtgg	W30594
121004	ttgggacctcaaccctggagatggg	W30594
121005	ggacctcaaccctggagatggggct	W30594
121006	caaccctggagatggggctttctat	W30594
121007	ggctttctatgggcctaagattgat	W30594
121008	tttctatgggcctaagattgatgtg	W30594
121009	cgcccttggtcggccccatcagtgt	W30594
121010	tggtcggccccatcagtgtggaaca	W30594
121011	tcggccccatcagtgtggaacaatc	W30594
121012	tgattactaggcacatcccaggcgg	W30609
121013	gattactaggcacatcccaggcgga	W30609
121014	ctacactctgggtgtgaagccagct	W30609
121015	tacactctgggtgtgaagccagctc	W30609
121016	acactctgggtgtgaagccagctca	W30609
121017	cactctgggtgtgaagccagctcat	W30609
121018	tgaagccagctcattgtgggtgtga	W30609
121019	gaagccagctcattgtgggtgtgaa	W30609
121020	aagccagctcattgtgggtgtgaac	W30609
121021	attactaggcacatcccaggcggac	W30609
121022	aggcggactgcgcagtgctgatcgt	W30609
121023	gcggactgcgcagtgctgatcgtag	W30609
121024	cggactgcgcagtgctgatcgtagc	W30609
121025	ggactgcgcagtgctgatcgtagca	W30609
121026	cgcagtgctgatcgtagcagccgtt	W30609
121027	gctgatcgtagcagccgttgtgggc	W30609
121028	cctacactctgggtgtgaagccagc	W30609
121029	tagctctttgagccttggttggtcg	D13759
121030	attacagcaatacactgggctagtg	D13759
121031	gaaacactgtactgtacatactatg	D13759
121032	tgtacatactatgcttaaaacattt	D13759
121033	ccacataatttctgtacatcccaaa	D13759
121034	aatttctgtacatcccaaaggatga	D13759
121035	tgtacatcccaaaggatgagaagtg	D13759
121036	tcgctccgtgtaattaatgaaacta	D13759
121037	ttatccaaattcattcatgaatctt	D13759
121038	aaattcattcatgaatctttcatat	D13759
121039	taacattttagtccaatgtgactag	D13759
121040	cattttagtccaatgtgactagtca	D13759
121041	cactgggctagtgtctcacaaataa	D13759
121042	gtctcacaaataactgatttactca	D13759
121043	actgatttactcagagccacctgac	D13759
121044	gatttactcagagccacctgacagc	D13759

TABLE 1

SEQ ID NO	sequence	DBAxnID
35837	tccgccattaccagatccacacaga	AA003426
35838	gccattaccagatccacacagaagt	AA003426
35839	attaccagatccacacagaagttaa	AA003426
35840	agatccacacagaagttaaacagta	AA003426
35841	actgcggcaaagccgtccgacaccg	AA003426
35842	gttcagacctgcttcgacaccagag	AA003426
35843	cagacctgcttcgacaccagagggt	AA003426
35844	gtttcagtcagagctccttactcat	AA003426
35845	tcagtcagagctccttactcattcg	AA003426
35846	gtcagagctccttactcattcgcca	AA003426
35847	gctccttactcattcgccaccaaag	AA003426
35848	ccttactcattcgccaccaaagaat	AA003426
35849	tactcattcgccaccaaagaattca	AA003426
35850	gcatggctcgtggtccaagaaacac	AA003431
35851	catggctcgtggtccaagaaacacc	AA003431
35852	tggtcctcacaaggctgagggaatg	AA003431
35853	gtcctcacaaggctgagggaatgcc	AA003431
35854	tcctcacaaggctgagggaatgcct	AA003431
35855	cctcacaaggctgagggaatgcctg	AA003431
35856	acttaagtaatgccctgactggaga	AA003431
35857	cttaagtaatgccctgactggagat	AA003431
35858	taagtaatgccctgactggagatgt	AA003431
35859	aagtaatgccctgactggagatgta	AA003431
35860	agtaatgccctgactggagatgtag	AA003431
35861	taccctgttggggttgatggattca	AA003431
35862	atggctcgtggtccaagaaacacct	AA003431
35863	cgtggtccaagaaacacctgaagcg	AA003431
35864	ccatccactggtcctcacaaggctg	AA003431
35865	atccactggtcctcacaaggctgag	AA003431
35866	tccactggtcctcacaaggctgagg	AA003431
35867	ccactggtcctcacaaggctgaggg	AA003431
35868	actggtcctcacaaggctgagggaa	AA003431
35869	ctggtcctcacaaggctgagggaat	AA003431
35870	ctggacagttcctgcagcccgcagc	U41047
35871	cgtgcaagccaagtggcccgctcaa	U41047
35872	tgtcctggtcctggtcctggtccct	U41047
35873	tcctggtcctggtcctggtccctct	U41047
35874	cctcactcacctaagctggcggagc	U41047
35875	actcacctaagctggcggagcaaac	U41047
35876	tcacctaagctggcggagcaaactc	U41047
35877	cggcgccgttgttctcagtactgtg	U41047
35878	ttttttgaaggttcactctgcgcag	U41047
35879	ttttgaaggttcactctgcgcagtt	U41047
35880	gaaggttcactctgcgcagttttat	U41047
35881	aggttcactctgcgcagttttatct	U41047
35882	tgcaagccaagtggcccgctcaata	U41047
35883	agccaagtggcccgctcaatagtga	U41047
35884	ccaagtggcccgctcaatagtgatg	U41047
35885	gtggcccgctcaatagtgatgagct	U41047
35886	ggcccgctcaatagtgatgagctag	U41047
35887	ttccaggcggtacgccctctctgat	U41047
35888	ctctgatcctggtccatctgtcctg	U41047
35889	ctgatcctggtccatctgtcctggt	U41047
35890	ccccctgggagaatatctggctcgt	AA003458
35891	ctggctcgtgggctccatctgcttg	AA003458
35892	cacaccgctgaatctggacccagtg	AA003458
35893	caccgctgaatctggacccagtgct	AA003458
35894	gctgaatctggacccagtgctggtg	AA003458
35895	tctggacccagtgctggtgcttctg	AA003458
35896	ttctgaaaattctccttgctggtga	AA003458
35897	aaattctccttgctggtgaatccaa	AA003458
35898	attctccttgctggtgaatccaatg	AA003458
35899	tctccttgctggtgaatccaatgat	AA003458
35900	agtaacggcttctaaaccatgtgca	AA003458
35901	acggcttctaaaccatgtgcagaga	AA003458
35902	ctcgtgggctccatctgcttgtcca	AA003458
35903	ggcttctaaaccatgtgcagagata	AA003458
35904	cgtgggctccatctgcttgtccatg	AA003458
78441	gctcttctaaggattgccagcaacg	L24554
78442	agcaacgcatgagacactccttaag	L24554
78443	gcatgagacactccttaagaggaag	L24554
78444	tttctttgtgatctgcaaattcaag	L24554
78445	gttggaccttgtttcactcaaatat	L24554
78446	ccttgtttcactcaaatatgctcat	L24554
78447	ttcactcaaatatgctcatatgatc	L24554
78448	tgcgttggcccttaccaagttggat	L24554
78449	ggaaaccatacctcatttcccagca	L24554
78450	tcatttcccagcaaaccaagaagtc	L24554
78451	tcagtataagactctcccaggatgg	L24554
78452	tctcccaggatggaacacagacata	L24554
78453	gtccctgtactttgtggtgatgcgc	D78141
78454	ggtgaccctgatgcttttggaccag	D78141
78455	gaacacctacattaaagacgacaca	D78141
78456	taaagacgacacactgttcttgaaa	D78141
78457	cgacacactgttcttgaaagtggcc	D78141
78458	tttaactgacttggaggatctgtag	D78141
78459	acttctcagcacaggaaaaggtgtg	D78141
78460	gccctctggactgagcaggctcttg	D78141
78461	tggactgagcaggctcttgttcttg	D78141
78462	gctcttgttcttgtcttcctgcctc	D78141
78463	ctgcctccgatgtctgatgtgtcat	D78141
78464	tatcttggatccttccctggtttga	D78141
78465	cctgatgcttttggaccagagcggc	D78141
78466	cagcttcaaaaggccagatggcgag	D78141
78467	gatgaacattgcctctggctgtccc	D78141
78468	ctgtccccgctttgtgtcgcactct	D78141
78469	tgtgtcgcactctactctggagaac	D78141
78470	gcactctactctggagaactccaag	D78141
78471	tactctggagaactccaagaacacc	D78141
78472	ggagaactccaagaacacctacatt	D78141
78473	ggagccaccaaactctttctgattt	AA088988
78474	tcctcagagagccgtgagctctgtt	AA088988
78475	gtcttgcacagtttgccaggtcact	AA088988
78476	ttgcacagtttgccaggtcacttta	AA088988
78477	agtttgccaggtcactttagcagtc	AA088988
78478	ttgccaggtcactttagcagtcact	AA088988
78479	ccaggtcactttagcagtcactaca	AA088988
78480	cactttagcagtcactacaaaaagt	AA088988
78481	tgctcttactcggaaccccactaca	AA088988
78482	tactcggaaccccactacatcaagc	AA088988
78483	gaaccccactacatcaagctccaga	AA088988
78484	cactacatcaagctccagaaggtgg	AA088988
78485	tcagagagccgtgagctctgttttg	AA088988
78486	cgtgagctctgttttgctgctctct	AA088988
78487	gagctctgttttgctgctctctgcc	AA088988
78488	tttgctgctctctgccatgtccgcc	AA088988
78489	tgccatgtccgcctagtcttgcaca	AA088988
78490	catgtccgcctagtcttgcacagtt	AA088988
78491	gtccgcctagtcttgcacagtttgc	AA088988
78492	ctagtcttgcacagtttgccaggtc	AA088988
78493	aaagtgcccagttcttgttgctact	D14859
78494	tcttgttgctacttcagtggctgcc	D14859
78495	acagcctctagttaaagtactgtca	D14859
78496	taaagtactgtcagacgctcaacag	D14859
78497	tcaacaggatgtccccgcatggcta	D14859
78498	gattgccttcagtacctatgtgcct	D14859
78499	cttcagtacctatgtgcctcccagc	D14859
78500	gtttgcatctgttgacacgaggaag	D14859
78501	atctgttgacacgaggaagaattac	D14859
78502	ggatttcttcttcacaagctcccaa	D14859
78503	cttcttcacaagctcccaatccagt	D14859
78504	ctcccaatccagttgatgacgaatc	D14859
78505	ttcagtggctgccagagggcttgat	D14859
78506	ggctgccagagggcttgatattgaa	D14859
78507	tcaacatgttatcaattttgaccttt	D14859
78508	tccttctaccattgatgagtatgtt	D14859
121045	ttactcagagccacctgacagcagg	D13759
121046	acctgacagcaggccactagtgaca	D13759
121047	cagcaggccactagtgacagtttct	D13759
121048	gccactagtgacagtttctgttatg	D13759
121049	accgctgaatctgacccagtggctg	W64587
121050	cgctgaatctgacccagtggctgat	W64587
121051	tgtgatcctcatggatgagacgctc	W64587
121052	cgcttcctaaaccatttgcagaaat	W64587
121053	tcctaaaccatttgcagaaatataa	W64587
121054	ctaaaccatttgcagaaatataagg	W64587
121055	tgcgtgcatgtgcgttgttagcaac	W64587
121056	cgttgttagcaacacatctaccagc	W64587
121057	ttgttagcaacacatctaccagccc	W64587
121058	tagcaacacatctaccagccctctg	W64587
121059	taccagccctctgcatgactgaggt	W64587
121060	ccagccctctgcatgactgaggttg	W64587
121061	gaatctgacccagtggctgatggtg	W64587
121062	atctgacccagtggctgatggtgct	W64587
121063	gacccagtggctgatggtgctgaaa	W64587
121064	cccagtggctgatggtgctgaaaat	W64587
121065	gctgaaaatctccttgcctgtgatc	W64587
121066	tgaaaatctccttgcctgtgatcct	W64587
121067	aatctccttgcctgtgatcctcatg	W64587
121068	tctccttgcctgtgatcctcatgga	W64587
121069	ctggtgttgcttcaagctagtaatt	K02138
121070	cttatcccaaagctctgaggccata	K02138
121071	tcagcacaagttcatctccactagg	K02138
121072	caagttcatctccactaggttccac	K02138
121073	cccgccatgacctcagagctagaag	K02138
121074	atgacctcagagctagaagtctgtg	K02138
121075	ttctccctgctgcacagaggatacc	K02138
121076	cagcctgatgtagcccagactccta	K02138
121077	gaattctgttgctcaaactgccata	K02138
121078	gcagcccaaagaaactaacatagat	K02138
121079	gaaccctgacatccctacatgaatg	K02138
121080	tgacatccctacatgaatgttggtt	K02138
121081	ccaaagctctgaggccatagcagtt	K02138
121082	atccttgtctcctggcaccaacatc	K02138
121083	tggcaccaacatcccagtcactgta	K02138
121084	caacatcccagtcactgtatgtcct	K02138
121085	cccagtcactgtatgtcctttgtac	K02138
121086	cactgtatgtcctttgtacctaatg	K02138
121087	tttgatgccaaccctgattcagcac	K02138
121088	gccaaccctgattcagcacaagttc	K02138
121089	cccggagctgagctaccgaaggctt	AA003022
121090	agctgagctaccgaaggcttctctc	AA003022
121091	catcttgttactgctcaatatctgg	AA003022
121092	atcttgttactgctcaatatctgga	AA003022
121093	ttgttactgctcaatatctggaagt	AA003022
121094	gttactgctcaatatctggaagtcc	AA003022
121095	ttactgctcaatatctggaagtccc	AA003022
121096	actgctcaatatctggaagtcccga	AA003022
121097	caatatctggaagtcccgatcgtgt	AA003022
121098	gaagagccaagtcctgtttgctgtg	AA003022
121099	aagagccaagtcctgtttgctgtgg	AA003022
121100	gagccaagtcctgtttgctgtggtg	AA003022
121101	gctgagctaccgaaggcttctctcc	AA003022
121102	agccaagtcctgtttgctgtggtgt	AA003022
121103	gagtcccccagtcatgaacctcttc	AA003022
121104	catgaacctcttccgattcctggga	AA003022
121105	ctcctagctatcatcttgttactgc	AA003022
121106	cctagctatcatcttgttactgctc	AA003022
121107	ctagctatcatcttgttactgctca	AA003022
121108	agctatcatcttgttactgctcaat	AA003022
121109	tatcatcttgttactgctcaatatc	AA003022
121110	acattaagagacacctgttggtcca	W33415
121111	ttaagagacacctgttggtccatgc	W33415
121112	atggtgtctacatccttgacttggc	W33415

TABLE 1

SEQ ID NO	sequence	DBAxnID
35905	ctccatctgcttgtccatgtcactt	AA003458
35906	gcttgtccatgtcacttcacttctt	AA003458
35907	ttgtccatgtcacttcacttcttga	AA003458
35908	gtccatgtcacttcacttcttgatc	AA003458
35909	cacttcacttcttgatcctctacgt	AA003458
35910	atcacaccgctgaatctggacccag	AA003458
35911	tgttgaagatcttcacccacagcac	U46068
35912	tggaagtgttccctaccaacactga	U46068
35913	atatcaaaactgttcgatcctgaag	U46068
35914	aaactgttcgatcctgaagtcctga	U46068
35915	ttcgatcctgaagtcctgaaggaca	U46068
35916	gtcctgaaggacacccctgaccaag	U46068
35917	gatccttgaatacacactgctgccc	U46068
35918	tgaatacacactgctgcccaatgag	U46068
35919	ccccatgtcaatgtccaaggccttg	U46068
35920	gtcaatgtccaaggccttgggatac	U46068
35921	ctcctgatgaagacctgggacagta	U46068
35922	ccaggtcccagccaggagtgtggaa	U46068
35923	ctaccaacactgatgtccggcccttt	U46068
35924	aagctcagttcttcacagaagacaa	U46068
35925	agttcttcacagaagacaaccggct	U46068
35926	tcacagaagacaaccggcttatgct	U46068
35927	aagacaaccggcttatgctcaactt	U46068
35928	accggcttatgctcaacttcaataa	U46068
35929	gtattgagcgcatcaagctgatgat	U46068
35930	agcgcatcaagctgatgatctcaga	U46068
35931	aatcagaatcactgattttggtctg	AA003541
35932	atagttacggtgttgatgggatgga	AA003541
35933	aagatctccaacaaggttgacgtgt	AA003541
35934	gatctccaacaaggttgacgtgtgg	AA003541
35935	tccaacaaggttgacgtgtggtcag	AA003541
35936	tggggtcatcttcttccagtgcctc	AA003541
35937	gggtcatcttcttccagtgcctcta	AA003541
35938	gtcatcttcttccagtgcctctatg	AA003541
35939	ttcttccagtgcctctatggtagaa	AA003541
35940	cttccagtgcctctatggtagaaga	AA003541
35941	tccagtgcctctatggtagaagacc	AA003541
35942	cagtgcctctatggtagaagaccat	AA003541
35943	ttacggtgttgatgggatggatctg	AA003541
35944	ggatggatctgacttcccagggggc	AA003541
35945	cacttactggtatttacctcctgag	AA003541
35946	tatttacctcctgagtgctttgtag	AA003541
35947	tcctgagtgctttgtagttggaaaa	AA003541
35948	agccaccgaagatctccaacaaggt	AA003541
35949	ccaccgaagatctccaacaaggttg	AA003541
35950	cgaagatctccaacaaggttgacgt	AA003541
35951	aactgtgcgccttatggacctgctg	AA003554
35952	gcgccttatggacctgctggaagaa	AA003554
35953	cctttctcataatcgcctcaatgac	AA003554
35954	ttctcataatcgcctcaatgactac	AA003554
35955	tcgcctcaatgactacatcttctcc	AA003554
35956	cctcaatgactacatcttctccttt	AA003554
35957	ctacatcttctcctttgacaagatg	AA003554
35958	catcttctcctttgacaagatgctg	AA003554
35959	ctcctttgacaagatgctggatgac	AA003554
35960	gaacacagctgcttacctactgtat	AA003554
35961	agctgcttacctactgtatgccttc	AA003554
35962	ttacctactgtatgccttcaccaga	AA003554
35963	tatggacctgctggaagaagggctg	AA003554
35964	actgtatgccttcaccagaatcagg	AA003554
35965	acggtccatggacaagctaaaggag	AA003554
35966	gaaagcagctcagacatccgttgca	AA003554
35967	agcagctcagacatccgttgcatat	AA003554
35968	gacatccgttgcatatggctgcatc	AA003554
35969	tggctgcatcaaatacgccgacctt	AA003554
35970	catcaaatacgccgacctttctcat	AA003554
35971	cgacctttctcataatcgcctcaat	AA003554
35972	atgacttcttcatcaaaattgaaac	U46934

SEQ ID NO	sequence	DBAxnID
78509	aattggacgcactggccgctgtgga	D14859
78510	ttttgatactgactctgataatcat	D14859
78511	tactgactctgataatcatttagca	D14859
78512	taatcatttagcacagcctctagtt	D14859
78513	tattacctgggctgcagacgcttcc	D38557
78514	tgcagacgcttccagcacaatcagt	D38557
78515	acatgcggacgttacagctaaacga	D38557
78516	atggtacacactcaccttaggcatt	D38557
78517	cacactcaccttaggcattaagggt	D38557
78518	gttgaacggcacgatcctatggaaa	D38557
78519	cccagggcatggctgggctgcgatc	D38557
78520	tgcgatcggaacacacaccttcgag	D38557
78521	gcagtttgacaactttcgcgtggaa	D38557
78522	agctgctcgctagtccacacggggc	D38557
78523	tgattttggttcagggcgaattctg	D38557
78524	tctatatatgagcctttgaggctaa	D38557
78525	cgcttccagcacaatcagtgttata	D38557
78526	tgttataggcgatcaccactggacc	D38557
78527	tcaccactggaccaacatgactgtg	D38557
78528	ccctcggagcggcggcgtattcatt	D38557
78529	tgcaaatggctcttacagagtcaca	D38557
78530	tggctcttacagagtcacagctgac	D38557
78531	agctgacctgggtggatggataacg	D38557
78532	ttcaggacatgcggacgttacagct	D38557
78533	aagacctgttcaacttctgttcaag	AA163911
78534	tgttcaacttctgttcaaggaagtt	AA163911
78535	ctttgggctggccaagaagtatcgg	AA163911
78536	accagcatatcccctatcgagagaa	AA163911
78537	cagcatatcccctatcgagagaaca	AA163911
78538	gcatatcccctatcgagagaacaag	AA163911
78539	atatcccctatcgagagaacaagaa	AA163911
78540	gaacaagaacctcacagggacagca	AA163911
78541	acaagaacctcacagggacagcacg	AA163911
78542	acctcacagggacagcacgctatgc	AA163911
78543	ctcacagggacagcacgctatgcct	AA163911
78544	cacagggacagcacgctatgcctcc	AA163911
78545	ttagtctcaaaactgttctgttgct	AA163911
78546	agtctcaaaactgttctgttgcttg	AA163911
78547	tcaaaactgttctgttgcttgctga	AA163911
78548	aactgttctgttgcttgctgaccaa	AA163911
78549	ctgttctgttgcttgctgaccaaat	AA163911
78550	tctgttgcttgctgaccaaatgata	AA163911
78551	tgttgcttgctgaccaaatgataag	AA163911
78552	ttgcttgctgaccaaatgataagtc	AA163911
78553	aatgcattctgtccactcactgtct	D67015
78554	accctgagtcttggcacattccttc	D67015
78555	agctgtcagaggcaactgtgatcct	D67015
78556	caactgtgatcctgccttagggact	D67015
78557	tgatcctgccttagggactggagaa	D67015
78558	gggacttgctcagtatggtgttcta	D67015
78559	aatgttcagaaccaagcagtctcct	D67015
78560	cagaaccaagcagtctccttactta	D67015
78561	agttcaaattccatccactttgata	D67015
78562	atccactttgatagcatcaatctgt	D67015
78563	cccttggcatgccagtctgtgaagg	D67015
78564	gcatgccagtctgtgaaggcattaa	D67015
78565	agtcttggcacattccttcaagaat	D67015
78566	ggcacattccttcaagaatgtagtt	D67015
78567	tgtagttaccgtctgcttgggaaga	D67015
78568	taccgtctgcttgggaagatgtcag	D67015
78569	agacttgggtttgccacaagtggca	D67015
78570	gccacaagtggcatctgcctgcacc	D67015
78571	atctgcctgcaccaattacattggt	D67015
78572	ctgcaccaattacattggttatttt	D67015
78573	cagattaaacagctccacgtggtgt	AA144649
78574	agagactgccaaagtccaggagctt	AA144649
78575	gccctctctgaatccgcttcatcag	AA144649
78576	ctctctgaatccgcttcatcagatg	AA144649

SEQ ID NO	sequence	DBAxnID
121113	tctacatccttgacttggcggccat	W33415
121114	acatccttgacttggcggccatcga	W33415
121115	tccttgacttggcggccatcgagta	W33415
121116	acttggcggccatcgagtaaaatcg	W33415
121117	gataaacaacccagacatgcgagtg	W33415
121118	caacccagacatgcgagtgcagatc	W33415
121119	gcagatcctcaaggacttcgtcaaa	W33415
121120	gatcctcaaggacttcgtcaaacag	W33415
121121	cctcaaggacttcgtcaaacagcac	W33415
121122	agagacacctgttggtccatgcacc	W33415
121123	acctgttggtccatgcacctgagga	W33415
121124	tggccagcttcatctctggtctatt	W33415
121125	ccagcttcatctctggtctattcaa	W33415
121126	tcatctctggtctattcaatttcta	W33415
121127	tctctggtctattcaatttctacga	W33415
121128	aggatctgtacttcacctaccttga	W33415
121129	atctgtacttcacctaccttgagat	W33415
121130	gcttacggcctgtgacaggcagtgt	M92088
121131	gtgccccatgcagcgggaatgtggc	M92088
121132	cagctacctgctggcaaggggcttg	M92088
121133	aaggggcttgctgctgatagatcag	M92088
121134	gctgatagatcagcctcctgcctca	M92088
121135	tcctgcctcagctgcagccctggga	M92088
121136	agctgcagccctgggaatacccagt	M92088
121137	tgcagccctgggaatacccagtgct	M92088
121138	aatacccagtgctgtttcctgtgcc	M92088
121139	ctgtgcctctggcctctaggcctgt	M92088
121140	ctctggcctctaggcctgttgtgca	M92088
121141	cctctaggcctgttgtgcaataaac	M92088
121142	ccccatgcagcgggaatgtggcagt	M92088
121143	tggcctggactacaaggctaagcat	M92088
121144	tagcttcaaggtctgctgccccttgt	M92088
121145	cttcaaggtctgctgcccttgtgtt	M92088
121146	ggtctgctgcccttgtgttctgaga	M92088
121147	ctgcccttgtgttctgagaatacat	M92088
121148	agcagctgccactccattcagctac	M92088
121149	cactccattcagctacctgctggca	M92088
121150	ccattctatttattcactgagcttc	M37897
121151	tatttattcactgagcttctctgtg	M37897
121152	atcctttgatgatcattcctgcagc	M37897
121153	tgatgatcattcctgcagcagctca	M37897
121154	tcattcctgcagcagctcagagggt	M37897
121155	ccagccgcttcatccctgaaaactg	M37897
121156	gcttcatccctgaaaactgtggcca	M37897
121157	tccctgaaaactgtggccagtttgt	M37897
121158	aatgcaattcctctgggaatggtgt	M37897
121159	attcctctgggaatggtgtattgtt	M37897
121160	ttgtctgcctttgtagcagcatcta	M37897
121161	gcctttgtagcagcatctaattttg	M37897
121162	gagcttctctgtgaactatttagaa	M37897
121163	gctgtttccattggggacactttat	M37897
121164	ctattctaaggctggccacacttga	M37897
121165	tggccacacttgagagctgcagggc	M37897
121166	cacttgagagctgcagggcccttg	M37897
121167	tttcaattgctctcatccctgagtt	M37897
121168	ttgctctcatccctgagttcagagc	M37897
121169	tcatgggtcttgggaagagaaacca	M37897
121170	gcaacttatgtcaagcagcgtataa	W33386
121171	caacttatgtcaagcagcgtataac	W33386
121172	agaagtgtcagagtccctggatact	W33386
121173	aagtgtcagagtccctggatactgc	W33386
121174	agagtccctggatactgcagaccct	W33386
121175	caccggtgccaagcagggcacgagc	W33386
121176	gcacgagctcaccgaccagcaggcg	W33386
121177	gaccagcaggcgccacctcatcagg	W33386
121178	ccagcaggcgccacctcatcaggat	W33386
121179	cagcaggcgccacctcatcaggatt	W33386
121180	gcaggcgccacctcatcaggattgt	W33386

TABLE 1

SEQ ID NO	sequence	DBAxnID
35973	catggcacaaacctgacttgggaac	U46934
35974	ctgactgtcctaggatgtgtgccta	U46934
35975	gtcctaggatgtgtgcctataagct	U46934
35976	ttacgaacttacatcgccagctctt	U46934
35977	acttacatcgccagctcttttgttg	U46934
35978	atcgccagctcttttgttggattga	U46934
35979	agctcttttgttggattgacaagtg	U46934
35980	cggctgctgatgcctagatgagccc	U46934
35981	cctagatgagcccctgtaggtcaga	U46934
35982	agacattatcagactgtctacggag	U46934
35983	tatcagactgtctacggagtcaagg	U46934
35984	ttcacggtttagatcccaacacttg	U46934
35985	atcagactgtctacggagtcaaggc	U46934
35986	tccacatagacattgcagatcgaag	U46934
35987	ttgaaccagcagactacaaagctga	U46934
35988	atgaagaccctgcattattccattc	U46934
35989	accctgcattattccattcagtcaa	U46934
35990	cattattccattcagtcaagaccaa	U46934
35991	tccattcagtcaagaccaagagagg	U46934
35992	tggcaaacacccctgactgtcctag	U46934
35993	ctattacctgggaaatgtgccagtt	AA036468
35994	atgtgccagttgctaaacctgttgg	AA036468
35995	cagtggactccaagtcacgtcagcg	AA036468
35996	gtggactccaagtcacgtcagcgtg	AA036468
35997	actccaagtcacgtcagcgtggccc	AA036468
35998	tccaagtcacgtcagcgtggcccct	AA036468
35999	caagtcacgtcagcgtggcccctgc	AA036468
36000	tcaccatcttgcaccagcagacaga	AA036468
36001	tcttgcaccagcagacagaagcggt	AA036468
36002	ttgcaccagcagacagaagcggtgc	AA036468
36003	gcaccagcagacagaagcggtgctg	AA036468
36004	ttcctggctgtgggcagagatgtgc	AA036468
36005	gtgccagttgctaaacctgttgggg	AA036468
36006	tggagtcagtcctgtcttccagtag	AA036468
36007	gagtcagtcctgtcttccagtagcc	AA036468
36008	gtcagtcctgtcttccagtagccgt	AA036468
36009	cctgtcttccagtagccgtgagcag	AA036468
36010	tgtcttccagtagccgtgagcagtg	AA036468
36011	tcttccagtagccgtgagcagtgga	AA036468
36012	ccagtagccgtgagcagtggactcc	AA036468
36013	gtcctgcctcagggccagcatttcc	D87966
36014	aggctcctcggcttctctattagtc	D87966
36015	tcagtttccccatctgtaaaatggg	D87966
36016	gtataacattcacctacctcgtgta	D87966
36017	cattcacctacctcgtgtatggaca	D87966
36018	cctacctcgtgtatggacagtgcct	D87966
36019	atggacagtgcctcacacagtgctg	D87966
36020	tcacacagtgctgagcacatccaca	D87966
36021	cacagtgctgagcacatccacatgt	D87966
36022	agtgctgagcacatccacatgttca	D87966
36023	gctgagcacatccacatgttcaata	D87966
36024	gagcacatccacatgttcaataaat	D87966
36025	ctcttttcttctctgctcagcactg	D87966
36026	tcttctctgctcagcactgacgagg	D87966
36027	ttctggtgtctgctttccccagttg	D87966
36028	tgtctgctttccccagttggagcca	D87966
36029	ccagttggagccagttctaatagtc	D87966
36030	aatagtctggagcctcaggaagaaa	D87966
36031	agatacaacctgggcatgtttgtgt	D87966
36032	atgcatctgtgaggatgcagaaatg	D87966
36033	ccctggtccagcaacagcaatggga	AA003631
36034	ctggtccagcaacagcaatgggacg	AA003631
36035	gccaactgcaatcgggtctattaga	AA003631
36036	ccaactgcaatcgggtctattagaa	AA003631
36037	actgcaatcgggtctattagaaggt	AA003631
36038	ttaacttccagaatgaatatgctcc	AA003631
36039	ctccattcagtgaacgggcaaattg	AA003631
36040	tccattcagtgaacgggcaaattga	AA003631
78577	tctgaatccgcttcatcagatgcgt	AA144649
78578	gaatccgcttcatcagatgcgtgac	AA144649
78579	tccgcttcatcagatgcgtgacata	AA144649
78580	gcttcatcagatgcgtgacatagcc	AA144649
78581	tcatcagatgcgtgacatagccggc	AA144649
78582	tgacatagccggctatcttgttccg	AA144649
78583	catagccggctatcttgttccgaag	AA144649
78584	agccggctatcttgttccgaagctt	AA144649
78585	tgatctcctgatctagggctgagac	AA144649
78586	cggctatcttgttccgaagcttctt	AA144649
78587	tctcctgatctagggctgagacctc	AA144649
78588	ctgagacctcaggaacgtagttatc	AA144649
78589	agacctcaggaacgtagttatctct	AA144649
78590	tagagatgcctctcacaggccctct	AA144649
78591	agatgcctctcacaggccctctctg	AA144649
78592	tgcctctcacaggccctctctgaat	AA144649
78593	caggccctctctgaatccgcttcat	AA144649
78594	ggacttccgtgaacgcagcaaaggg	D29797
78595	gcgcatccaacggcagcttgaaatt	D29797
78596	tatggacatcgccatgctggtggaa	D29797
78597	catcgccatgctggtggaaaatcag	D29797
78598	tgtcatgcacacagtggaccatgtg	D29797
78599	gcacacagtggaccatgtggagaag	D29797
78600	tattggactgtccgttgggctgaaa	D29797
78601	actgtccgttgggctgaaataagag	D29797
78602	ccagctttcactccagcttggcctg	D29797
78603	cactcttgtctccagacgggaacag	D29797
78604	tcttgtctccagacgggaacagagt	D29797
78605	tgtctccagacgggaacagagtttg	D29797
78606	cccagccatcttcacttctgggatc	D29797
78607	catcttcacttctgggatcattgac	D29797
78608	cacttctgggatcattgactcccag	D29797
78609	tgggatcattgactcccagatttcc	D29797
78610	cattgactcccagatttccaagcaa	D29797
78611	gatttccaagcaagccctcagcgag	D29797
78612	caagcaagccctcagcgagattgag	D29797
78613	agccctcagcgagattgagggtcgg	D29797
78614	catacacagatgtgactccccgaca	AA089097
78615	acacagatgtgactccccgacagtt	AA089097
78616	gggatgcccttgtgatcaagctaga	AA089097
78617	cccttgtgatcaagctagaggtgat	AA089097
78618	atgctgttagtggttctgaggttct	AA089097
78619	ttccttatccaatgtactctcgtga	AA089097
78620	cttatccaatgtactctcgtgatta	AA089097
78621	atccaatgtactctcgtgattatgt	AA089097
78622	caatgtactctcgtgattatgttta	AA089097
78623	attatgtttatgttcggcggtatag	AA089097
78624	tttatgttcggcggtatagtgtgga	AA089097
78625	atgttcggcggtatagtgtggatca	AA089097
78626	cagatgtgactccccgacagttctt	AA089097
78627	tgactccccgacagttcttcaatgt	AA089097
78628	ctccccgacagttcttcaatgttca	AA089097
78629	cccgacagttcttcaatgttcagct	AA089097
78630	gacagttcttcaatgttcagctgga	AA089097
78631	tcttcaatgttcagctggatacaga	AA089097
78632	tcaatgttcagctggatacagagta	AA089097
78633	atgttcagctggatacagagtacag	AA089097
78634	tcctccaaccaagtttattgtaatg	D49439
78635	cagtgcctcatcaacccagcaggtt	D49439
78636	aagcacagcccctgctggttctggc	D49439
78637	tgctggttctggcagtgttcagaaa	D49439
78638	taatggctcgcagcctactggacct	D49439
78639	ctcgcagcctactggacctggctct	D49439
78640	gcctgctctgtgatgtgtcacatgt	D49439
78641	cacatgtgctgacctcctctcttgt	D49439
78642	ctcttgtgcagattcctacacactc	D49439
78643	ttcctacacactcaaacaacctgtg	D49439
78644	cacactcaaacaacctgtgagggag	D49439
121181	caggcgccacctcatcaggattgtg	W33386
121182	atgtcaagcagcgtataacgtctgg	W33386
121183	cagcgtataacgtctggtggcgtga	W33386
121184	agcgtataacgtctggtggcgtgat	W33386
121185	cgtataacgtctggtggcgtgatct	W33386
121186	ataacgtctggtggcgtgatctgtg	W33386
121187	taacgtctggtggcgtgatctgtga	W33386
121188	cgtctggtggcgtgatctgtgagaa	W33386
121189	tctggtggcgtgatctgtgagaagt	W33386
121190	agtgcatctgctaggcatggcagag	W33387
121191	gcatctgctaggcatggcagagacg	W33387
121192	ctcctgcacacctgagtactcatgg	W33387
121193	ctgcacacctgagtactcatggaag	W33387
121194	cacacctgagtactcatggaaggac	W33387
121195	acctgagtactcatggaaggactga	W33387
121196	ctgactagcacaaggcagggccctg	W33387
121197	tcaatggtactcaatgccagccgga	W33387
121198	atggtactcaatgccagccggaggc	W33387
121199	gtactcaatgccagccggaggccct	W33387
121200	ctcaatgccagccggaggccctgca	W33387
121201	aatgccagccggaggccctgcatgg	W33387
121202	gggcattcagcgcatagacgtacag	W33387
121203	cattcagcgcatagacgtacagcat	W33387
121204	cgtacagcatgaacatcagaccctg	W33387
121205	gcatgaacatcagaccctgcgcaac	W33387
121206	tgaacatcagaccctgcgcaacaat	W33387
121207	acatcagaccctgcgcaacaatgga	W33387
121208	tcagaccctgcgcaacaatggaact	W33387
121209	gaccctgcgcaacaatggaacttgc	W33387
121210	atcagcacctcacaagcagagcaca	M15131
121211	acctcacaagcagagcacaagcctg	M15131
121212	tcggccaagacaggtcgctcagggt	M15131
121213	aagacaggtcgctcagggtcacaag	M15131
121214	gaaaccatggcacattctgttcaaa	M15131
121215	tttcctccttgcctctgatgggcaa	M15131
121216	ccttgcctctgatgggcaaccactt	M15131
121217	ttaggcagcactctctagaacagaa	M15131
121218	ggtcatagccttgcacttgaggtct	M15131
121219	agccttgcacttgaggtctttcatt	M15131
121220	gcacttgaggtctttcattgaagct	M15131
121221	agcacattgctttgatgagtatgaa	M15131
121222	gagcacaagcctgtcttcctgggaa	M15131
121223	ataattgacttcaccatggaatctg	M15131
121224	gaatctgtgtcttcctaaagtatgg	M15131
121225	gtgtcttcctaaagtatgggctgga	M15131
121226	gctcccttgtcatgaatgagcagac	M15131
121227	cagctcaatctctaggacactcctt	M15131
121228	aatctctaggacactcctagtcct	M15131
121229	taggacactccttagtcctcggcca	M15131
121230	ccctcgcgacagagctccagtgtag	AA060808
121231	tcgcgacagagctccagtgtagagg	AA060808
121232	ttctgcctccagattcctgccttga	AA060808
121233	tgcctccagattcctgccttgagct	AA060808
121234	ctccagattcctgccttgagctcct	AA060808
121235	attcctgccttgagctcctgccctg	AA060808
121236	ttgagctcctgccctggcttctgct	AA060808
121237	ggcttctgctgatggacggctctca	AA060808
121238	tgctgatggacggctctcagacact	AA060808
121239	acggctctcagacactgcgcagaag	AA060808
121240	gctctcagacactgcgcagaagaca	AA060808
121241	ctcagacactgcgcagaagacagaa	AA060808
121242	cgacagagctccagtgtagagggcc	AA060808
121243	cagagctccagtgtagagggccaag	AA060808
121244	cctcctatctggatttaaagatagg	AA060808
121245	ccgtaagcagcattcctccaaggat	AA060808
121246	gcattcctccaaggattctgcctcc	AA060808
121247	ttcctccaaggattctgcctccaga	AA060808
121248	ctccaaggattctgcctccagattc	AA060808

TABLE 1

SEQ ID NO	sequence	DBAxnID
36041	caaattgaaccaacagcttcaattc	AA003631
36042	attgaaccaacagcttcaattcctt	AA003631
36043	ttgaaccaacagcttcaattccttg	AA003631
36044	gaaccaacagcttcaattccttggg	AA003631
36045	tggtccagcaacagcaatgggacgg	AA003631
36046	gtcattaacaatgccaactgcaatc	AA003631
36047	tcattaacaatgccaactgcaatcg	AA003631
36048	attaacaatgccaactgcaatcggg	AA003631
36049	ttaacaatgccaactgcaatcgggt	AA003631
36050	acaatgccaactgcaatcgggtcta	AA003631
36051	aatgccaactgcaatcgggtctatt	AA003631
36052	atgccaactgcaatcgggtctatta	AA003631
36053	attgcggcttctggtaccagcattg	AA003634
36054	tgcggcttctggtaccagcattgga	AA003634
36055	caaacgctggtccacagccacttac	AA003634
36056	aacgctggtccacagccacttactg	AA003634
36057	acgctggtccacagccacttactgt	AA003634
36058	gctggtccacagccacttactgttg	AA003634
36059	ctggtccacagccacttactgttga	AA003634
36060	aatgtgatggctgctgcaacctttt	AA003634
36061	gatggctgctgcaacctttttgccc	AA003634
36062	atggctgctgcaacctttttgccca	AA003634
36063	ggctgctgcaacctttttgcccaga	AA003634
36064	gctgctgcaacctttttgcccagac	AA003634
36065	gcggcttctggtaccagcattggat	AA003634
36066	gcttctggtaccagcattggatgtg	AA003634
36067	tggtaccagcattggatgtgctgga	AA003634
36068	taccagcattggatgtgctggaggc	AA003634
36069	accagcattggatgtgctggaggct	AA003634
36070	ggcttgacccaaacgctggtccaca	AA003634
36071	cttgacccaaacgctggtccacagc	AA003634
36072	ttgacccaaacgctggtccacagcc	AA003634
36073	tgtcagcttttctcctgtaaaaata	U16322
36074	ttgttatcgtaacctgtagtgccaa	U16322
36075	cttaaaagtcacatcatgtgtagga	U16322
36076	agtcacatcatgtgtaggaattaca	U16322
36077	aattacatgcagcattgcccgggcg	U16322
36078	atgctacaatgttaccactgtgcct	U16322
36079	gccttccaatgtttatatcatcgga	U16322
36080	ttatatcatcggaaacataacataa	U16322
36081	ttcaagtgttacctacctgtgtagc	U16322
36082	tgttacctacctgtgtagccgaagt	U16322
36083	cctgtgtagccgaagtagtgtgcag	U16322
36084	gtgaccgagacgtttcagaatacat	U16322
36085	ttatcgtaacctgtagtgccaactc	U16322
36086	taacctgtagtgccaactctgcttc	U16322
36087	gtagtgccaactctgcttccggagg	U16322
36088	acgaaatgctgaccctgaagttgct	U16322
36089	tgaccctgaagttgcttctcattca	U16322
36090	ccctgaagttgcttctcattcacaa	U16322
36091	agttgcttctcattcacaaatagta	U16322
36092	ttctcattcacaaatagtaaaaagt	U16322
36093	accagctgtgctgcctaatctgtcg	AA003695
36094	tgtgctgcctaatctgtcggatgga	AA003695
36095	tctcccaatggtctcaaagagcttg	AA003695
36096	tcccaatggtctcaaagagcttgta	AA003695
36097	agatattgtcccgctcaaatgggta	AA003695
36098	atattgtcccgctcaaatgggtaca	AA003695
36099	attgtcccgctcaaatgggtacagg	AA003695
36100	aaatgggtacaggcccgtggtgatg	AA003695
36101	tgtaaagtcgtaccccagctgacca	AA003695
36102	taaagtcgtaccccagctgaccaga	AA003695
36103	aagtcgtaccccagctgaccagatg	AA003695
36104	cgtaccccagctgaccagatgtcca	AA003695
36105	tgctgcctaatctgtcggatggaga	AA003695
36106	gtaccccagctgaccagatgtccac	AA003695
36107	ctgcctaatctgtcggatggagaac	AA003695
36108	ctaatctgtcggatggagaaccgct	AA003695
78645	ttgtacagtaagttcctcagaataa	D49439
78646	ctcatcaacccagcaggttctgtcc	D49439
78647	gcaggttctgtccctcagcacctca	D49439
78648	tggctcaggctctactactacctct	D49439
78649	aggctctactactacctctcctgtc	D49439
78650	tcccagcgtgcagcccatcgtcaag	D49439
78651	cgtgcagcccatcgtcaagctggtc	D49439
78652	cgtcaagctggtctccactgctacc	D49439
78653	gctggtctccactgctaccactgca	D49439
78654	aatgaagcacctatcaggcaggaga	AA089110
78655	gaagcacctatcaggcaggagacat	AA089110
78656	gtgcgcaggtacaccacggtgatga	AA089110
78657	cgcaggtacaccacggtgatgaagg	AA089110
78658	tacaccacggtgatgaaggtgaggt	AA089110
78659	tcagtccgcctgggtttcttgtaga	AA089110
78660	ataggacacacgtacagcttcggat	AA089110
78661	ggacacacgtacagcttcggatcct	AA089110
78662	cacacgtacagcttcggatccttgg	AA089110
78663	acgtacagcttcggatccttgggcg	AA089110
78664	tccttgggcgccgtggagttaatgg	AA089110
78665	ttgggcgccgtggagttaatggcaa	AA089110
78666	gcatgtctgagtttctcagtggcaa	AA089110
78667	tgtctgagtttctcagtggcaagct	AA089110
78668	tgaacttacttgatgtcacacaaga	AA089110
78669	acttacttgatgtcacacaagaggg	AA089110
78670	tacttgatgtcacacaagagggcca	AA089110
78671	ctcaggatccagtgatccggggaca	AA089110
78672	aggatccagtgatccggggacagca	AA089110
78673	agcaccgtgcgcaggtacaccacgg	AA089110
78674	ttcatgaccatcctcacgatctttg	AA089111
78675	ctcacgatctttgtggtagagcttt	AA089111
78676	ggatgccctatatcagcattgtctg	AA089111
78677	tgccctatatcagcattgtctgtgt	AA089111
78678	atatcagcattgtctgtgtcattgt	AA089111
78679	gcattgtctgtgtcattgtctacgt	AA089111
78680	tctgtgtcattgtctacgtcatagg	AA089111
78681	gtgtcattgtctacgtcataggaca	AA089111
78682	tctacgtcataggacacgccttagg	AA089111
78683	tcataggacacgccttaggacccag	AA089111
78684	tcatcactgagatcttcctgcagtc	AA089111
78685	tcactgagatcttcctgcagtcctc	AA089111
78686	cgattcctactcctcgtcggcttct	AA089111
78687	ccgcctacatgatcggaggcagtgt	AA089111
78688	atagcctgcttagtgctgacggccg	AA089111
78689	tgcttagtgctgacggccgcactgg	AA089111
78690	ctgacggccgcactgggctgcagaa	AA089111
78691	ggctgcagaacaccatctcctggat	AA089111
78692	agaacaccatctcctggatgcccta	AA089111
78693	acaccatctcctggatgccctatat	AA089111
78694	ccatctcctggatgccctatatcag	AA089111
78695	gattcgcaacaccaacctggacgcg	D44464
78696	caacaccaacctggacgcgcagctg	D44464
78697	tgccgcgggtgtccgaaatatcgag	D44464
78698	atcttcggtgtttgccaccatgtgc	D44464
78699	ggtgtttgccaccatgtgcggtgcc	D44464
78700	cggtgcctgtggcctgaaagcggct	D44464
78701	cctgaaagcggctgtggtgtgtgtc	D44464
78702	tctggaccgtctgcaaggagaccag	D44464
78703	ataccagcagagaccacagcggcta	D44464
78704	gcagagaccacagcggctagtgggc	D44464
78705	gcctctgcaactcctgggcaataaa	D44464
78706	gcaactcctgggcaataaatctatt	D44464
78707	caacctggacgcgcagctggttcag	D44464
78708	gtgctcctcagacctgaatgagttc	D44464
78709	cctgaatgagttccccatggttgtg	D44464
78710	caccatgtgcaccttggacttctat	D44464
78711	gtgcaccttggacttctatgagggg	D44464
78712	gcaaggccgtctggatggcgccctc	D44464
121249	ggattctgcctccagattcctgcct	AA060808
121250	gaaccgccgatcttgtgacaccgga	M20658
121251	ccgccgatcttgtgacaccggagtc	M20658
121252	gtatctggtgtcagctgaagaccat	M20658
121253	agaccatgtgtccccccaatacttag	M20658
121254	ccatgtgtcccccaatacttagatt	M20658
121255	tgtgtcccccaatacttagatttca	M20658
121256	tacttagatttcaccgtactttctg	M20658
121257	gatttcaccgtactttctgatggtg	M20658
121258	ttcaccgtactttctgatggtgttt	M20658
121259	gtttgcacgtgcaaccgtatattaa	M20658
121260	ataattctgcagcagatgccaaatg	M20658
121261	gttatctatcacaaaccacaaaatt	M20658
121262	atcttgtgacaccggagtctgaggt	M20658
121263	tgacaccggagtctgaggtggaaca	M20658
121264	aacagagccagtgtcaggaaagccc	M20658
121265	gtcaggaaagcccctcagcaagaaa	M20658
121266	attgctggttcccaggggcagtcac	M20658
121267	atgaaataccacatcaaggcagtgg	M20658
121268	gtgggaacttcctgcgacttctcct	M20658
121269	ggaacttcctgcgacttctcctggt	M20658
121270	aaccagccaacagtgcggatcacgg	AA003162
121271	cagccaacagtgcggatcacggaac	AA003162
121272	agggtcttcatcgcagaggtgccca	AA003162
121273	gtcttcatcgcagaggtgcccataa	AA003162
121274	atcgcagaggtgcccataatagcca	AA003162
121275	gtgcccataatagccatcgactggg	AA003162
121276	ataatagccatcgactgggttcaga	AA003162
121277	atagccatcgactgggttcagattg	AA003162
121278	gccatcgactgggttcagattgacg	AA003162
121279	aactcctcggtccttcatgatgaat	AA003162
121280	tcctcggtccttcatgatgaattca	AA003162
121281	tcggtccttcatgatgaattcatcg	AA003162
121282	ccaacagtgcggatcacggaactca	AA003162
121283	cggatcacggaactcaccgaagaga	AA003162
121284	atcacggaactcaccgaagagaacg	AA003162
121285	ctcaccgaagagaacgtcaagttca	AA003162
121286	ttcattatcgagaacacggacctgg	AA003162
121287	gtggccaattccattcggagggtct	AA003162
121288	gccaattccattcggagggtcttca	AA003162
121289	aattccattcggagggtcttcatcg	AA003162
121290	gaattgagcatcccagacagtggtc	W33372
121291	ttgagcatcccagacagtggtccat	W33372
121292	cagcctagctcattccctgagatca	W33372
121293	cctagctcattccctgagatcacta	W33372
121294	agctcattccctgagatcactaaca	W33372
121295	tcattccctgagatcactaacacta	W33372
121296	ttccctgagatcactaacactactg	W33372
121297	cctgagatcactaacactactgaac	W33372
121298	gagatcactaacactactgaacata	W33372
121299	atcactaacactactgaacatagtc	W33372
121300	actaacactactgaacatagtcatt	W33372
121301	aacactactgaacatagtcattctg	W33372
121302	agcatcccagacagtggtccatacg	W33372
121303	atcccagacagtggtccatacgggc	W33372
121304	ccagacagtggtccatacgggcctc	W33372
121305	agtggtccatacgggcctcagccta	W33372
121306	ccatacgggcctcagcctagctcat	W33372
121307	tacgggcctcagcctagctcattcc	W33372
121308	gggcctcagcctagctcattccctg	W33372
121309	cctcagcctagctcattccctgaga	W33372
121310	aactactagtcttcagatgataaat	M16762
121311	tactagtcttcagatgataaatatg	M16762
121312	aattcatcttcacctgataaagatg	M16762
121313	tcatcttcacctgataaagatggtt	M16762
121314	tcttcacctgataaagatggttgct	M16762
121315	tttggaatctacacctgcacactta	M16762
121316	ggaatctacacctgcacacttatac	M16762

TABLE 1

SEQ ID NO	sequence	DBAxnID
36109	ggctcatactccaacatccctcgga	AA003695
36110	ccaacatccctcggagtaggtcaga	AA003695
36111	aacatccctcggagtaggtcagaga	AA003695
36112	catccctcggagtaggtcagagagt	AA003695
36113	tccctcggagtaggtcagagagtgg	AA003695
36114	cgtggaccttcaacatgtcctggag	U20107
36115	tcaacatgtcctggagagctggtac	U20107
36116	cttcaacgaggccttcgtcttcctg	U20107
36117	cctggttcccgttagccagctccag	U20107
36118	ggttcccgttagccagctccagagt	U20107
36119	cgttagccagctccagagtgtggac	U20107
36120	tctgcagctccggactgagcctgtg	U20107
36121	gcagctccggactgagcctgtgggc	U20107
36122	ccggactgagcctgtgggcaaagtg	U20107
36123	acccctacagcactgggcagacatg	U20107
36124	cctacagcactgggcagacatgctg	U20107
36125	ggcagacatgctggcccatgctcgg	U20107
36126	acatgtcctggagagctggtaccag	U20107
36127	ctgcttaggcctcgctcctgaaagc	U20107
36128	tccagggaccactgagcctgagcag	U20107
36129	gaccactgagcctgagcagatgggg	U20107
36130	gtgcttctcactacgctacgtgccc	U20107
36131	ctacgtgcccagctcaggcagcctg	U20107
36132	cctgactgtggttgtactggaggct	U20107
36133	tgtactggaggctcggggtctgaat	U20107
36134	gagcaaaacatcctccaagaaaggc	U20107
36135	gccaccactgtggagatcttcttga	U27502
36136	ttcttgacgctccagttcgtgctct	U27502
36137	ttcagcaaccactgggtgtactggg	U27502
36138	ctgggcagcctactctatgactttc	U27502
36139	agcctactctatgactttctcctct	U27502
36140	ctgtctatcctgaagggagccagac	U27502
36141	gccagacccagtgactccaatggac	U27502
36142	cccagtgactccaatggacagccag	U27502
36143	gactccaatggacagccagagggta	U27502
36144	actcaggccctgtaaaagctccagt	U27502
36145	gccctgtaaaagctccagttggaga	U27502
36146	ccctttgctgtgtgaaatctttca	U27502
36147	acgctccagttcgtgctctgcatct	U27502
36148	cagttcgtgctctgcatctttgcta	U27502
36149	gtgctctgcatctttgctacatacg	U27502
36150	tgcatctttgctacatacgacgaga	U27502
36151	tttgctacatacgacgagaggcgga	U27502
36152	acatacgacgagaggcggaatggcc	U27502
36153	ctggggcacctctttgggatgtatt	U27502
36154	cacctctttgggatgtattacactg	U27502
36155	gatccctgtgagaaacttcagctta	L38613
36156	aaacttcagcttatgagtgcaggca	L38613
36157	gccagatgcccggccaaggttgaag	L38613
36158	ctgtcctagcctggcacaggccaca	L38613
36159	tagcctggcacaggccacagtgaca	L38613
36160	ggcacaggccacagtgacagagtag	L38613
36161	atgttatctatgaactctgagtgtt	L38613
36162	tctatgaactctgagtgttcccatg	L38613
36163	tgacatggtccctgtacccagatat	L38613
36164	ggtccctgtacccagatatgtcctt	L38613
36165	tgtacccagatatgtccttcagtaa	L38613
36166	gatgagcagcacactcagcaggtgg	L38613
36167	cagcttatgagtgcaggcagcagca	L38613
36168	agcgctagtgcaacccaggaaagaa	L38613
36169	tgtgtgccctctatggagacctcgc	L38613
36170	agtagtctcccaaggttggctgaca	L38613
36171	ctcccaaggttggctgacagcccca	L38613
36172	atctccacttggagcctaggcaggt	L38613
36173	agcctaggcaggttgtgttcaagaa	L38613
36174	ggacaacccagagccagatgcccgg	L38613
36175	cccagagccagatgcccggccaagg	L38613
36176	agggctcaaatctgagctcaactgc	M12374

SEQ ID NO	sequence	DBAxnID
78713	agacaaacagtcttatctgcgtgca	D44464
78714	acagtcttatctgcgtgcagcccat	D44464
78715	ggcagcatacgggccttcggagaag	X98055
78716	atacgggccttcggagaagctgcct	X98055
78717	ttgaagggcatcccaggctggctgc	X98055
78718	ggcatcccaggctggctgcatggta	X98055
78719	ccaggctggctgcatggtaccagcg	X98055
78720	tggctgcatggtaccagcgagtgga	X98055
78721	catggtaccagcgagtggaggcagc	X98055
78722	atgaagtcatcctgaaggtgaagga	X98055
78723	cccctgctgacctcatcataaagca	X98055
78724	ctgacctcatcataaagcagaagct	X98055
78725	agaagctgatgcccagagtgctgac	X98055
78726	tgatgcccagagtgctgaccatgat	X98055
78727	tcagggccctgtggcataaggtgat	X98055
78728	tgttccctgttttccttggtgagca	X98055
78729	gtgagcaaatacctcctgaaacact	X98055
78730	ctcctgaaacactggcagccacgtt	X98055
78731	tggcagccacgttggcagaactgga	X98055
78732	atgttaacctacaggtgcttgaaga	X98055
78733	acttggtggccatcacagagctgat	X98055
78734	gctgcccagtctttgaagggcatcc	X98055
78735	tcatccatgggtcttcgagtctcca	AA089186
78736	atccatgggtcttcgagtctccaag	AA089186
78737	ctaggactgttcttcttcttctcag	AA089186
78738	atattactccctgtgtaaggaatgg	AA089186
78739	ctccgctatatgccagctggagcct	AA089186
78740	ccgctatatgccagctggagccttc	AA089186
78741	tgctcctgctctactggctttcttc	AA089186
78742	tgctctactggctttcttcctgctg	AA089186
78743	ctactggctttcttcctgctggaat	AA089186
78744	actggctttcttcctgctggaatct	AA089186
78745	tggctttcttcctgctggaatctgt	AA089186
78746	gctttcttcctgctggaatctgtgt	AA089186
78747	gtcttcgagtctccaagttgtctac	AA089186
78748	cttcgagtctccaagttgtctacta	AA089186
78749	gagtctccaagttgtctactatctt	AA089186
78750	ccaagttgtctactatcttcctagg	AA089186
78751	tgtctactatcttcctaggactgtt	AA089186
78752	tctactatcttcctaggactgttct	AA089186
78753	tactatcttcctaggactgttcttc	AA089186
78754	atcttcctaggactgttcttcttct	AA089186
78755	tcacattcaccaacaatcagctctt	U73910
78756	tcaccaacaatcagctcttcttcct	U73910
78757	tctggtagctggagtgctggtttct	U73910
78758	agctggagtgctggtttctgccttc	U73910
78759	ggtttctgccttcctggcatagctg	U73910
78760	tgccttcctggcatagctgaggaat	U73910
78761	taacatacttagcacctactgcttt	U73910
78762	ctgctttctgcctatatttccttga	U73910
78763	tctgcctatatttccttgaagactt	U73910
78764	atttgcttcgatctaaacagtatct	U73910
78765	ttcgatctaaacagtatctgttcaa	U73910
78766	ctaaacagtatctgttcaaagtcat	U73910
78767	acaatcagctcttcttcctgagtta	U73910
78768	agctcttcttcctgagttatgctca	U73910
78769	tcttcctgagttatgctcatgtaag	U73910
78770	actgtccacgaaattccactatgaa	U73910
78771	attccactatgaacagaggtgcaga	U73910
78772	gtgcagattcctgccgactctggta	U73910
78773	attcctgccgactctggtagctgga	U73910
78774	gccgactctggtagctggagtgctg	U73910
78775	tgtgcctcagtttcctcagctctaa	D26157
78776	tcagtttcctcagctctaatctgac	D26157
78777	tcctccactacatacagggttcaag	D26157
78778	gttcaaggtcagcctggggtatttg	D26157
78779	ggtcagcctggggtatttgagactc	D26157
78780	gagactctcaaaaccaaatgacaac	D26157

SEQ ID NO	sequence	DBAxnID
121317	tacacctgcacacttatacttcttc	M16762
121318	acctgcacacttatacttcttccgt	M16762
121319	tgcacacttatacttcttccgtcct	M16762
121320	aggaatatctcacatttcttacatt	M16762
121321	cattttccttttaagtgctgattga	M16762
121322	ataagctcagatgtctgtcattttt	M16762
121323	agctcagatgtctgtcatttttagg	M16762
121324	gatgtctgtcatttttaggacagca	M16762
121325	gatctcctctccagggagctaacat	M16762
121326	ctcctctccagggagctaacatcag	M16762
121327	ctctccagggagctaacatcagctc	M16762
121328	gagctaacatcagctcagagtttac	M16762
121329	acatcagctcagagtttactgaaga	M16762
121330	tccccttgcggctgtgaccactgct	AA008930
121331	ccccttgcggctgtgaccactgctg	AA008930
121332	gaccctatcaacgacctgcaactca	AA008930
121333	ccctatcaacgacctgcaactcaag	AA008930
121334	tatcaacgacctgcaactcaaggat	AA008930
121335	atcaacgacctgcaactcaaggatg	AA008930
121336	caacgacctgcaactcaaggatgtg	AA008930
121337	aacgacctgcaactcaaggatgtgg	AA008930
121338	gacctgcaactcaaggatgtggcag	AA008930
121339	caactcaaggatgtggcagtggtag	AA008930
121340	actcaaggatgtggcagtggtagaa	AA008930
121341	aagctgcgggacgaatgcagattca	AA008930
121342	gcggctgtgaccactgctgttcagg	AA008930
121343	ggctgtgaccactgctgttcaggag	AA008930
121344	tgtgaccactgctgttcaggagctg	AA008930
121345	gtgaccactgctgttcaggagctgc	AA008930
121346	ctggctcagtcctatccagcaggac	AA008930
121347	ggctcagtcctatccagcaggaccc	AA008930
121348	ccttgaccctatcaacgacctgcaa	AA008930
121349	cttgaccctatcaacgacctgcaac	AA008930
121350	gtctgtcattgaccttgaattgaga	D17666
121351	atcatatgcagatgcttgttggcca	D17666
121352	tctcatgggcctgaggcatacttct	D17666
121353	caccctcttggttggccaatgtctg	D17666
121354	tggccaatgtctggcatctgtattc	D17666
121355	atgtctggcatctgtattcttgatg	D17666
121356	ggcatctgtattcttgatgattgtt	D17666
121357	gattgttccttttttcatccactctg	D17666
121358	tctgaaagcctcttgatctcctttg	D17666
121359	agcctcttgatctcctttgtgaatg	D17666
121360	atgactgctatcagttttgtaggga	D17666
121361	tgaaagtccactcaggaagcagttt	D17666
121362	ttggccaagagcactactataaaga	D17666
121363	ctctgtatatttgctcctacaacta	D17666
121364	atatttgctcctacaactaatgcct	D17666
121365	gctcctacaactaatgcctttaaga	D17666
121366	acaactaatgcctttaagactgagc	D17666
121367	actgagctacctgtaccatggtctg	D17666
121368	atgatataagcctctcatgggcctg	D17666
121369	taagcctctcatgggcctgaggcat	D17666
121370	gctcacctggcaacacagatggagg	M30856
121371	cagaagaaccatctagcaagctaga	M30856
121372	gcaactctatcactaaactggactt	M30856
121373	ctatcactaaactggactttgccat	M30856
121374	ctaaactggactttgccattgaaga	M30856
121375	aataggatctaaccacttcagcaca	M30856
121376	atctaaccacttcagcacagcagtt	M30856
121377	ccacttcagcacagcagttctaaag	M30856
121378	gcccaacagtgctctgtgtgttttg	M30856
121379	gtgtatatctgttgatcgggagctg	M30856
121380	atctgttgatcgggagctgagatgg	M30856
121381	tcacttttcatgtaacatatagtat	M30856
121382	aaccatctagcaagctagaaaagtc	M30856
121383	agtaaaactcagcactaatgtaaat	M30856
121384	gaatcacaaagctcaagccaaatct	M30856

TABLE 1

SEQ ID NO	sequence	DBAxnID
36177	gctcaaatctgagctcaactgcagt	M12374
36178	gccactagggtcctcacagtgagtg	M12374
36179	actagggtcctcacagtgagtgctg	M12374
36180	agggtcctcacagtgagtgctgcta	M12374
36181	gtcctcacagtgagtgctgctaact	M12374
36182	ctcacagtgagtgctgctaactgac	M12374
36183	agtgctgctaactgactgcccgtgc	M12374
36184	gctgctaactgactgcccgtgcaga	M12374
36185	gctaactgactgcccgtgcagaaac	M12374
36186	aactgactgcccgtgcagaaactgg	M12374
36187	tgactgcccgtgcagaaactgggta	M12374
36188	caaatctgagctcaactgcagtcct	M12374
36189	atctgagctcaactgcagtcctagg	M12374
36190	tgagctcaactgcagtcctagggag	M12374
36191	caactgcagtcctagggagatccac	M12374
36192	tcctagggagatccaccctgggctg	M12374
36193	ccctgggctgccactagggtcctca	M12374
36194	tgggctgccactagggtcctcacag	M12374
36195	gctgccactagggtcctcacagtga	M12374
36196	ttaactttgaggcctggtcagacca	L11163
36197	ttgaggcctggtcagaccagaaagg	L11163
36198	tctttcttcatttgagccgcccttg	L11163
36199	ttcatttgagccgcccttggagagc	L11163
36200	ggccctctcagtgctgttcccatga	L11163
36201	agccctcggaggcaagaacacaagg	L11163
36202	tggcccagatggcacggagtttcag	L11163
36203	agatggcacggagtttcagtgtttg	L11163
36204	ggtcatagggccctcgctggaggtc	L11163
36205	gaactcgccgcggccaataaagctc	L11163
36206	gccgcggccaataaagctcacctgt	L11163
36207	gccaataaagctcacctgtgccctg	L11163
36208	cctggtcagaccagaaagggacttg	L11163
36209	ctcactgtagacccctagtcagact	L11163
36210	atgctgtgacctgcaaccgagaaga	L11163
36211	tgacctgcaaccgagaagaaatcag	L11163
36212	aaatcagttgtcagctcagagctga	L11163
36213	gttgtcagctcagagctgagcttgg	L11163
36214	agctcagagctgagcttggctgcct	L11163
36215	accaacagtgcctctttcttcattt	L11163
36216	ttccagtcctggcttcaggctactg	L76155
36217	tcctggcttcaggctactgctgaga	L76155
36218	tggtctgtcactcgctggacttggg	L76155
36219	gtcactcgctggacttgggcctctg	L76155
36220	cgctggacttgggcctctgacttgg	L76155
36221	gcctctgacttggacacttggactt	L76155
36222	ggccttagctgttgggctctgattt	L76155
36223	agctgttgggctctgattttagaga	L76155
36224	agctggtccattatcagtcttaagg	L76155
36225	tccattatcagtcttaaggagtctg	L76155
36226	agcactccatgcccaagacaatgtt	L76155
36227	ccatgcccaagacaatgttgaatca	L76155
36228	tatcctcaagagggaccaggaagga	L76155
36229	accccgagtcacacactttgcagcg	L76155
36230	acactttgcagcgcgggatacccgg	L76155
36231	gagagtccctcgagttgccacactg	L76155
36232	ccctcgagttgccacactgagtcag	L76155
36233	catgaacctcgagttctgactgata	L76155
36234	cctcgagttctgactgatatggact	L76155
36235	actgatatggactggccctggtctg	L76155
36236	tgcacacagccgcgttctacgatca	AA003799
36237	gcacacagccgcgttctacgatcaa	AA003799
36238	taatttgtcgcagtggttacacgcg	AA003799
36239	atttgtcgcagtggttacacgcggt	AA003799
36240	tgtccgcgctgatcgccgagggtcc	AA003799
36241	gtggatccttggccgcagaggcttt	AA003799
36242	tggatccttggccgcagaggcttta	AA003799
36243	gatccttggccgcagaggctttaag	AA003799
36244	atccttggccgcagaggctttaagc	AA003799

SEQ ID NO	sequence	DBAxnID
78781	gaccagtcagtcctcaggtactgaa	D26157
78782	tcagtcctcaggtactgaaagatac	D26157
78783	aagatactatctgatgccagttgct	D26157
78784	ctatctgatgccagttgctgacttt	D26157
78785	gatgccagttgctgactttgtaaat	D26157
78786	tgatccaaataccactgaatggata	D26157
78787	tcctcagctctaatctgacaggggt	D26157
78788	gctctaatctgacaggggtgtcttg	D26157
78789	acacaggacctggaaggaagccaca	D26157
78790	agccacagagggtgttactgttact	D26157
78791	tgttactgttactgctgtcaatatt	D26157
78792	atatttccatcacactcagaaaaag	D26157
78793	gcccttcttcaggcaggaggtcaga	D26157
78794	cttcaggcaggaggtcagagttcaa	D26157
78795	gttcaaaagctctgcccagcatgca	X99581
78796	tgcccagcatgcactcaactccatg	X99581
78797	ttatgttacacattttccagatata	X99581
78798	tacacattttccagatataagagac	X99581
78799	ctaggcaggacctgtggccaagttc	X99581
78800	tgtggccaagttcttagtagctgtt	X99581
78801	aaactgaacattccagaatgtgtgg	X99581
78802	aagctagccgtgatcctcagctgtt	X99581
78803	gccgtgatcctcagctgttgctgca	X99581
78804	atcctcagctgttgctgcataatct	X99581
78805	tgctgcataatctcttcattccgag	X99581
78806	ataatctcttcattccgaggagcac	X99581
78807	gcatgcactcaactccatgagcaga	X99581
78808	actcaactccatgagcagaggctcc	X99581
78809	aggctccagcctcaagatcctttcc	X99581
78810	cagcctcaagatcctttccaaagga	X99581
78811	agaatcctccagttttcactccagc	X99581
78812	ctccagttttcactccagctaacac	X99581
78813	ttttcactccagctaacacttatgc	X99581
78814	ctaacacttatgcaaagacatatat	X99581
78815	gtaatttagctgcactggcgcgttt	W13691
78816	tagctgcactggcgcgtttacacgt	W13691
78817	cgaaagtccactgaatcggatgacg	W13691
78818	aagtccactgaatcggatgacgctg	W13691
78819	tccactgaatcggatgacgctgtac	W13691
78820	tcggatgacgctgtacgcattacgg	W13691
78821	cgggccctaagttcgtgtgcattag	W13691
78822	gccctaagttcgtgtgcattagcgt	W13691
78823	agttcgtgtgcattagcgtctagaa	W13691
78824	tgtcatttaactgcacttaggattt	W13691
78825	ttaactgcacttaggattttctcta	W13691
78826	aggattttctctagatggcaatgat	W13691
78827	cactggcgcgtttacacgtgtactg	W13691
78828	ttgcgtaccacttacgcttgagaat	W13691
78829	gcttgagaatcccgttcgcactgta	W13691
78830	tgagaatcccgttcgcactgtaatc	W13691
78831	tcccgttcgcactgtaatcgaaagc	W13691
78832	aatcgaaagccgacgatgcctcgaa	W13691
78833	acgatgcctcgaaagtccactgaat	W13691
78834	atgcctcgaaagtccactgaatcgg	W13691
78835	gaagcatgccattgcctataatgta	AA089256
78836	aagcatgccattgcctataatgtaa	AA089256
78837	caaaggcaagcctcagttgttccat	AA089256
78838	aaaggcaagcctcagttgttccatt	AA089256
78839	aggcaagcctcagttgttccattgg	AA089256
78840	gcaagcctcagttgttccattgggc	AA089256
78841	aagcctcagttgttccattgggcaa	AA089256
78842	agcctcagttgttccattgggcaac	AA089256
78843	gcctcagttgttccattgggcaacc	AA089256
78844	ctcagttgttccattgggcaacctt	AA089256
78845	tcagttgttccattgggcaaccttt	AA089256
78846	gttgttccattgggcaacctttctg	AA089256
78847	agcatgccattgcctataatgtaag	AA089256
78848	ttgttccattgggcaacctttctga	AA089256

SEQ ID NO	sequence	DBAxnID
121385	caaagctcaagccaaatctgagacg	M30856
121386	tgagacgtccaagcattcacctaat	M30856
121387	gtccaagcattcacctaatcggctg	M30856
121388	gcattcacctaatcggctgtttcct	M30856
121389	tcggctgtttccttctgatccctgg	M30856
121390	ttctgatccctgggtttctagaaca	M30856
121391	tataaacctgggaacccctctgctg	AA104477
121392	tgggaacccctctgctgcagcagta	AA104477
121393	caaagtcatcatcaaacactgtgga	AA104477
121394	aagtcatcatcaaacactgtggaaa	AA104477
121395	gtcatcatcaaacactgtggaaagt	AA104477
121396	tcatcaaacactgtggaaagtacat	AA104477
121397	agtacatctttatacaataaagtcg	AA104477
121398	tacaataaagtcgctgcccaagggg	AA104477
121399	caataaagtcgctgcccaaggggag	AA104477
121400	gtttgctgtccctgaaagctgagta	AA104477
121401	ttgctgtccctgaaagctgagtata	AA104477
121402	gctgtccctgaaagctgagtataaa	AA104477
121403	cccctctgctgcagcagtacagact	AA104477
121404	cctctgctgcagcagtacagactgt	AA104477
121405	tctgctgcagcagtacagactgttt	AA104477
121406	tgctgcagcagtacagactgtttct	AA104477
121407	actgtttctacaaagtcatcatcaa	AA104477
121408	tgtttctacaaagtcatcatcaaac	AA104477
121409	tttctacaaagtcatcatcaaacac	AA104477
121410	tacaaagtcatcatcaaacactgtg	AA104477
121411	ccaatagctctggggagcaggccag	M28052
121412	cagaaggcaaccttcatgggcaaga	M28052
121413	taatatagcaggtggccaggactgg	M28052
121414	ttgaggacagtccactgctgaggac	M28052
121415	aatcatccacttctgaactccattt	M28052
121416	ctgaactccatttgctacttcctgg	M28052
121417	tccatttgctacttcctggtctaac	M28052
121418	tgctacttcctggtctaaccagggt	M28052
121419	gctccactgccctatttagtcatga	M28052
121420	aggtcactagcttcctgtacctgcc	M28052
121421	tgcttgccttcacagggcagctaga	M28052
121422	ccttcacagggcagctagaacttgc	M28052
121423	gcaaccttcatgggcaagatcagga	M28052
121424	ccctgaacaccgatgcctatctgtc	M28052
121425	acaccgatgcctatctgtctcttca	M28052
121426	atgcctatctgtctcttcaagaact	M28052
121427	atctgtctcttcaagaactacaggc	M28052
121428	tacaggcccaagattcagtccacct	M28052
121429	cccaagattcagtccacctaatata	M28052
121430	attcagtccacctaatatagcaggt	M28052
121431	agttcctgctgagcaagtcagccta	M26271
121432	gttcctgctgagcaagtcagcctaa	M26271
121433	aactcctggctgtcattgacattgt	M26271
121434	ctcctggctgtcattgacattgtct	M26271
121435	tcctggctgtcattgacattgtcta	M26271
121436	acattgtctaaaaccaagatgacag	M26271
121437	ctgagaggcctgacccttgttctgc	M26271
121438	agaggcctgacccttgttctgcatt	M26271
121439	gaggcctgacccttgttctgcattc	M26271
121440	tgaccctgttctgcattctcccag	M26271
121441	tcctccatctgatcccatgtgccag	M26271
121442	tccatctgatcccatgtgccaggaa	M26271
121443	gcaagtcagcctaatgcttaaatag	M26271
121444	gtcagcctaatgcttaaatagaaca	M26271
121445	cttaaatagaacaactcctggctgt	M26271
121446	taaatagaacaactcctggctgtca	M26271
121447	atagaacaactcctggctgtcattg	M26271
121448	tagaacaactcctggctgtcattga	M26271
121449	gaacaactcctggctgtcattgaca	M26271
121450	caactcctggctgtcattgacattg	M26271
121451	ttttccagccaggagctgagagcct	W33538
121452	ttccagccaggagctgagagcctct	W33538

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36245	tccttggccgcagaggctttaagcg	AA003799	78849	gaattacgccaaaggcaagcctcag	AA089256	121453	cttctcgggagctgagggctatagc	W33538
36246	ccttggccgcagaggctttaagcgg	AA003799	78850	aattacgccaaaggcaagcctcagt	AA089256	121454	cagctcccagccacagatgtgcata	W33538
36247	cttggccgcagaggctttaagcggg	AA003799	78851	attacgccaaaggcaagcctcagtt	AA089256	121455	gctcccagccacagatgtgcataga	W33538
36248	cacacagccgcgttctacgatcaag	AA003799	78852	tacgccaaaggcaagcctcagttgt	AA089256	121456	ctcccagccacagatgtgcatagac	W33538
36249	acagccgcgttctacgatcaagctt	AA003799	78853	acgccaaaggcaagcctcagttgtt	AA089256	121457	cccagccacagatgtgcatagactc	W33538
36250	cagccgcgttctacgatcaagcttt	AA003799	78854	cgccaaaggcaagcctcagttgttc	AA089256	121458	agatgtgcatagactccccaacttt	W33538
36251	agccgcgttctacgatcaagctttc	AA003799	78855	ccaaaggcaagcctcagttgttcca	AA089256	121459	gatgtgcatagactccccaactttg	W33538
36252	gccgcgttctacgatcaagctttcg	AA003799	78856	gcttagacatcccttcgagctggta	W13689	121460	tgtgcatagactccccaactttgga	W33538
36253	cgcgttctacgatcaagctttcggg	AA003799	78857	tagacatcccttcgagctggtattc	W13689	121461	gtgcatagactccccaactttggac	W33538
36254	cgataatttgtcgcagtggttacac	AA003799	78858	attggcgccttcggcatagcggggt	W13689	121462	gcatagactccccaactttggacaa	W33538
36255	ataatttgtcgcagtggttacacgc	AA003799	78859	tttcgatggtccgaactaagggcat	W13689	121463	tccagccaggagctgagagcctctt	W33538
36256	ctcacaaagcattttgcacttggac	J00372	78860	tagtcatggtttgcgcccgaatagg	W13689	121464	cagccatctggatagcttctcggga	W33538
36257	aagcattttgcacttggacctgaag	J00372	78861	tcatggtttgcgcccgaatagggct	W13689	121465	gccatctggatagcttctcgggagc	W33538
36258	cgaacctcagtacgtgcagtatgca	J00372	78862	agacatcgttaatgctccgaggaag	W13689	121466	ccatctggatagcttctcgggagct	W33538
36259	tcagtacgtgcagtatgcagtggtt	J00372	78863	catcgttaatgctccgaggaagtaa	W13689	121467	atctggatagcttctcgggagctga	W33538
36260	agtggttgcctacaatctgcgcccc	J00372	78864	taatgctccgaggaagtaatggtaa	W13689	121468	tctggatagcttctcgggagctgag	W33538
36261	gacactgcagaacatcatccagagc	J00372	78865	atggtaatcatctggccgtttatag	W13689	121469	atagcttctcgggagctgagggcta	W33538
36262	gcagaacatcatccagagctgctgg	J00372	78866	atcatctggccgtttatagcgcaat	W13689	121470	tagcttctcgggagctgagggctat	W33538
36263	cctgcagaggccgggtgcagaactg	J00372	78867	atctggccgtttatagcgcaataag	W13689	121471	tcctgtccatggtaccttgccact	W33550
36264	agaactgctccaaagggacctcaag	J00372	78868	acatcccttcgagctggtattcgaa	W13689	121472	tgtccatggtaccttgccactgtg	W33550
36265	ggctttccgaggggcactaggctga	J00372	78869	cttcgagctggtattcgaaggccca	W13689	121473	gatcagcccatcgcagcttgcgttc	W33550
36266	ggcactaggctgactccatcgagcc	J00372	78870	cgaaggcccacgtgcttcaaatgtc	W13689	121474	cccatcgcagcttgcgttcaatcac	W33550
36267	aggctgactccatcgagccgattgt	J00372	78871	aggcccacgtgcttcaaatgtccga	W13689	121475	atcgcagcttgcgttcaatcacaat	W33550
36268	tttgcacttggacctgaagccagcg	J00372	78872	acgtgcttcaaatgtccgatattga	W13689	121476	gcagcttgcgttcaatcacaatgga	W33550
36269	cacgcaccaagctccggagatcctg	J00372	78873	tgcttcaaatgtccgatattgattg	W13689	121477	gcttgcgttcaatcacaatggaaac	W33550
36270	ccaagctccggagatcctgaaagga	J00372	78874	ttcaaatgtccgatattgattggcg	W13689	121478	tgcgttcaatcacaatggaaacata	W33550
36271	gcccaaagctgacatctactctttt	J00372	78875	atattgattggcgccttcggcatag	W13689	121479	catatttgcctatgcttccagctac	W33550
36272	agctgacatctactcttttggaatc	J00372	78876	gaacatcaatgccttgtgttcaccc	AA089264	121480	atttgcctatgcttccagctacgac	W33550
36273	ctcttttggaatcaccctgtggcag	J00372	78877	aacatcaatgccttgtgttcacccc	AA089264	121481	ctatgcttccagctacgactggtcc	W33550
36274	tggaatcaccctgtggcagatgacc	J00372	78878	cactggcccagcatcaagatctggg	AA089264	121482	tgcttccagctacgactggtccaag	W33550
36275	ctccggcgaacctcagtacgtgcag	J00372	78879	ctggctatacagacaacttgggtgc	AA089264	121483	ccatggtacccttgccactgtgggc	W33550
36276	aacagcatattgctgaccagtcagt	X15373	78880	tggctatacagacaacttgggtgcg	AA089264	121484	gcttccagctacgactggtccaagg	W33550
36277	atattgctgaccagtcagtgtcatc	X15373	78881	ggctatacagacaacttgggtgcga	AA089264	121485	tggtacccttgccactgtgggctcc	W33550
36278	cattcatatacgacaaagtaggagc	X15373	78882	gctatacagacaacttgggtgcgag	AA089264	121486	tacccttgccactgtgggctccgat	W33550
36279	ctgtccccttaggatgcatagctgc	X15373	78883	ctatacagacaacttgggtgcgagt	AA089264	121487	cactgtgggctccgatggtaggttc	W33550
36280	gatgcatagctgcccctagggtacg	X15373	78884	tatacagacaacttgggtgcgagta	AA089264	121488	tgtgggctccgatggtaggttcagc	W33550
36281	tagctgcccctagggtacgtagctg	X15373	78885	atacagacaacttgggtgcgagtat	AA089264	121489	taggttcagcttctgggacaaagat	W33550
36282	tgacaatggcgttcttctgaaagag	X15373	78886	tacagacaacttgggtgcgagtatg	AA089264	121490	cagttagatcagcccatcgcagctt	W33550
36283	tcttctgaaagagccacgtttgggt	X15373	78887	agacaacttgggtgcgagtatggca	AA089264	121491	ttagatcagcccatcgcagcttgcg	W33550
36284	cttttctggatgggtgcaaagtatc	X15373	78888	acatcaatgccttgtgttcacccca	AA089264	121492	aaacttaactgttgcctgcctacat	K03233
36285	gtctcgctttactagaccgtctctg	X15373	78889	catcaatgccttgtgttcaccccaa	AA089264	121493	aactgttgcctgcctacatctgcga	K03233
36286	ctttactagaccgtctctgcacaaa	X15373	78890	atcaatgccttgtgttcaccccaac	AA089264	121494	agcacctaaagtctgaatgttcctc	K03233
36287	tagaccgtctctgcacaaaagttta	X15373	78891	gctgccactggcccagcatcaagat	AA089264	121495	gttcctcatggcccatggtcaaaag	K03233
36288	ctgaccagtcagtgtcatctcccgg	X15373	78892	ctgccactggcccagcatcaagatc	AA089264	121496	catggcccatggtcaaaaggatttt	K03233
36289	agtcagtgtcatctcccgggtgaat	X15373	78893	tgccactggcccagcatcaagatct	AA089264	121497	tacattcctttatgccatcaaatgt	K03233
36290	tgtcatctcccgggtgaattttgat	X15373	78894	gccactggcccagcatcaagatctg	AA089264	121498	cctttatgccatcaaatgtcttatc	K03233
36291	ttttgatgtcacgttatagtcaaat	X15373	78895	ccactggcccagcatcaagatctgg	AA089264	121499	tgccatcaaatgtcttatcaattta	K03233
36292	ctagattttcttcctctgaaccatg	X15373	78896	tttttacgattcagttgataggcaa	U67874	121500	tggctttacctaattatgttcctat	K03233
36293	tttcttcctctgaaccatgatgcag	X15373	78897	atcttatttgcagtattccacagtt	U67874	121501	ttattgccttctgtgatgtgagtat	K03233
36294	cctctgaaccatgatgcagtaggta	X15373	78898	tccagaacctgaagtactccaggcg	U67874	121502	tatctgttttagctgaggaggagtt	K03233
36295	tatatacattcatatacgacaaagt	X15373	78899	acctgaagtactccaggcgagcgct	U67874	121503	ggccatgttcatttgtcccttgtgg	K03233
36296	cacggtgcagcggcgagcagacgtc	AA003917	78900	agtactccaggcgagcgctctacca	U67874	121504	cctacatctgcgaatgactctgcgc	K03233
36297	acgcggacacagacgcgcctcatct	AA003917	78901	ctgcgcctccagcctgaattgaagt	U67874	121505	tctgcgaatgactctgcgctgccag	K03233
36298	gaacagcttccacgtgttatatcac	AA003917	78902	ctccagcctgaattgaagtttgagc	U67874	121506	aatgactctgcgctgccaggggtct	K03233
36299	cagcttccacgtgttatatcacggc	AA003917	78903	acagtgtttgcaactccaactggaa	U67874	121507	ttcattcgagatctggatgactttc	K03233
36300	agcttccacgtgttatatcacggca	AA003917	78904	tatgttatcttaccatctgacatgc	U67874	121508	agattctacatggtccaccttaacg	K03233
36301	gcttccacgtgttatatcacggcaa	AA003917	78905	atcttaccatctgacatgcgacttt	U67874	121509	tacatggtccaccttaacgatctgg	K03233
36302	ttccacgtgttatatcacggcaagt	AA003917	78906	ccatctgacatgcgactttggtatt	U67874	121510	gtgctaacctctagaccacctcagc	K03233
36303	tccacgtgttatatcacggcaagtt	AA003917	78907	tttctgcttcttaaggaaattatga	U67874	121511	aacagcaggcagagcacctaaagtc	K03233
36304	gttatatcacggcaagtttgccaat	AA003917	78908	tttgcagtattccacagttctgctt	U67874	121512	gcggccacgcgatgaccgtgcaagt	W33559
36305	ttatatcacggcaagtttgccaatg	AA003917	78909	gtattccacagttctgcttctagac	U67874	121513	cggccacgcgatgaccgtgcaagtg	W33559
36306	tatcacggcaagtttgccaatgaag	AA003917	78910	cacagttctgcttctagacttcctg	U67874	121514	ccagcagcagctacaacatacgtag	W33559
36307	atcacggcaagtttgccaatgaagg	AA003917	78911	tctgcttctagacttcctgtaattt	U67874	121515	cagcagcagctacaacatacgtagg	W33559
36308	cgcggacacagacgcgcctcatctg	AA003917	78912	gtaattttagcgacctttgacagca	U67874	121516	gcagcagctacaacatacgtaggtc	W33559
36309	tcacggcaagtttgccaatgaaggt	AA003917	78913	ttagcgacctttgacagcagattct	U67874	121517	cagcagctacaacatacgtaggtca	W33559
36310	ggacacagacgcgcctcatctgctg	AA003917	78914	acctttgacagcagattctgtttac	U67874	121518	agcagctacaacatacgtaggtcaa	W33559
36311	gacacagacgcgcctcatctgctgg	AA003917	78915	agattctgtttacatcagaatttgc	U67874	121519	gcagctacaacatacgtaggtcaat	W33559
36312	acacagacgcgcctcatctgctgga	AA003917	78916	tcggccgaactacatgcaggaagac	AA089339	121520	cagctacaacatacgtaggtcaatc	W33559

TABLE 1

SEQ ID NO	sequence	DBAxnID
36313	acagacgcgcctcatctgctggagc	AA003917
36314	cagacgcgcctcatctgctggagcc	AA003917
36315	agacgcgcctcatctgctggagccc	AA003917
36316	cgcgcctcatctgctggagcccgag	AA003917
36317	ctgtggtcacatctgcaaggaggcc	M12039
36318	tcacatctgcaaggaggccccaaga	M12039
36319	cacagccacaggtatagccacaggt	M12039
36320	agccacaggtatagccacaggtaca	M12039
36321	tatagccacaggtacatgcacaggc	M12039
36322	agccacaggtacatgcacaggcaca	M12039
36323	cacaggtacatgcacaggcacaggc	M12039
36324	atgcacaggcacaggcagagtcaaa	M12039
36325	cagagtcaaagccacaggcagaggc	M12039
36326	agccacaggcagaggcacaggaaca	M12039
36327	cacaggcacagtcacagccagagcc	M12039
36328	aggcacagtcacagccagagccacg	M12039
36329	ctgcaaggaggccccaagaggcagc	M12039
36330	ggccccaagaggcagcgttgcctgt	M12039
36331	tgaatgcaggcctggttttgaactg	M12039
36332	atgcaggcctggttttgaactggcc	M12039
36333	tacagcctacacagaggtcagaaaa	M12039
36334	agcctacacagaggtcagaaaaaca	M12039
36335	aaccacgggcacagccacaggtata	M12039
36336	cacgggcacagccacaggtatagcc	M12039
36337	cacgtcctgcagtccatatgcatga	AA003953
36338	cagtccatatgcatgacgagcaagc	AA003953
36339	acagtctactatgccagttgttccg	AA003953
36340	tatgccagttgttccgtcccagaca	AA003953
36341	tgttccgtcccagacagcagttggc	AA003953
36342	gtcccagacagcagttggcccaagc	AA003953
36343	gacagcagttggcccaagcgcatcc	AA003953
36344	cccaagcgcatcctcgatatcactg	AA003953
36345	aagcgcatcctcgatatcactgctg	AA003953
36346	cgcatcctcgatatcactgctgatt	AA003953
36347	ctcgatatcactgctgattttgaga	AA003953
36348	atcactgctgattttgagaccgttg	AA003953
36349	tccatatgcatgacgagcaagcttt	AA003953
36350	gaagatctcgtcatactggtgatat	AA003953
36351	ctcgtcatactggtgatatggttga	AA003953
36352	atgctggacctgtgattgggtacag	AA003953
36353	gatcattaggcgctccgtacagtct	AA003953
36354	cattaggcgctccgtacagtctact	AA003953
36355	taggcgctccgtacagtctactatg	AA003953
36356	cgtacagtctactatgccagttgtt	AA003953
36357	accttacctgctcaagtatccaaat	D83206
36358	ttcctgtgtcactgagtctctttcc	D83206
36359	aaagtctgactctggtattctctca	D83206
36360	tggtattctctcaactgtgctcctt	D83206
36361	tctctcaactgtgctccttagagtc	D83206
36362	aactgtgctccttagagtcttgtct	D83206
36363	tgtatacatagtcttcatctcaaca	D83206
36364	catagtcttcatctcaacagtaaat	D83206
36365	agaactgcactgtcatccctccagt	D83206
36366	gcactgtcatccctccagtgtagct	D83206
36367	tcatccctccagtgtagctcttttc	D83206
36368	accatgtaattttccattctgagac	D83206
36369	tgtcactgagtctctttcctgagga	D83206
36370	tgagtctctttcctgaggatcttgt	D83206
36371	atcttgtgatggtttcctgttgggg	D83206
36372	tcagaactggactcctggcacctcc	D83206
36373	caactctgctatttttcagtattta	D83206
36374	aatacccaaccaagcagattggatg	D83206
36375	cccagatccccttgttccttgcatt	D83206
36376	ttgcattttcatttaatctgaaaat	D83206
36377	gatcgagatcctgcggacgctgtac	AA003984
36378	cgagatcctgcggacgctgtaccac	AA003984
36379	agactacctgccaaggcactgcgta	AA003984
36380	gcacgtccgtgctgtttgcccagca	AA003984

SEQ ID NO	sequence	DBAxnID
78917	ggaagaccatgcatcaccaactgga	AA089339
78918	actctgaagtctgggtcatcccctg	AA089339
78919	cctggctccacagttttgaggtgcc	AA089339
78920	ctgttctcctctgccagtgacttct	AA089339
78921	ttctcctctgccagtgacttctgtc	AA089339
78922	agtgacttctgtctctttagcaaga	AA089339
78923	gacttctgtctctttagcaagactg	AA089339
78924	ctctttagcaagactgcagctgtga	AA089339
78925	aagactgcagctgtgatacatatcc	AA089339
78926	gtgatacatatccactcgtgtttcc	AA089339
78927	atacatatccactcgtgtttcccca	AA089339
78928	agaccatgcatcaccaactggacaa	AA089339
78929	atcaccaactggacaactgtgactt	AA089339
78930	accaactggacaactgtgacttcca	AA089339
78931	ccaaccctgccttgaagcggactct	AA089339
78932	ccttgaagcggactctatattgcta	AA089339
78933	ctctatattgctactctgaagtctg	AA089339
78934	tatattgctactctgaagtctgggt	AA089339
78935	gctactctgaagtctgggtcatccc	AA089339
78936	tgatttctccaaggtcctaccatct	U67878
78937	ggtcctaccatcttatatgtgacat	U67878
78938	tggtagctctgtaacatgggaatgg	U67878
78939	ctagaagcccattcagcaacctgtg	U67878
78940	gcccattcagcaacctgtgagattc	U67878
78941	tctctatgttagccagggttgctgt	U67878
78942	ggtcaaagtgtctcaccacaaacaa	U67878
78943	tcaccacaaacaaaggtatcaaatc	U67878
78944	tcaaatcacaagcctggctggctga	U67878
78945	ttattgatttccgccttggctggca	U67878
78946	atttccgccttggctggcaataaag	U67878
78947	gccttggctggcaataaaggcattt	U67878
78948	ctcctgctcagtctagctctacaaa	U67878
78949	ctcagtctagctctacaaagttccc	U67878
78950	ctaagagactggtccgcatagataa	U67878
78951	gactggtccgcatagataaaggtca	U67878
78952	atcagcaccaactctcagttcatca	U67878
78953	tctcagttcatcagggttgagaaag	U67878
78954	ctgaaatgccgctggtagctctgta	U67878
78955	tgccgctggtagctctgtaacatgg	U67878
78956	aggcctaatctcagaagcatgagcc	D50563
78957	cctaatctcagaagcatgagccacg	D50563
78958	tgactgccttgtaaccttcctgctt	D50563
78959	tgtaaccttcctgcttcccacgtgt	D50563
78960	tcccacgtgtctcatatctgcctct	D50563
78961	actgtgacgtcacaacccgaagata	D50563
78962	gtgacgtcacaacccgaagataatg	D50563
78963	tatttatacacagtgttagggatgt	D50563
78964	atgtaatcttatctcagctaggcag	D50563
78965	taatcttatctcagctaggcagtgg	D50563
78966	tttaagtgagccttggaccaccctg	D50563
78967	ctttccccaagagtgatggtttatg	D50563
78968	aaccggaagcctggttattgagctg	D50563
78969	aagcctggttattgagctgagtgag	D50563
78970	agatccccaacacgaggacctcaga	D50563
78971	acacgaggacctcagagacaacatt	D50563
78972	actcctgagcatcagggattgggga	D50563
78973	cctgagcatcagggattggggacag	D50563
78974	tcacaggtacagcacgggcctccgt	D50563
78975	gtgtcttactgactgccttgtaacc	D50563
78976	gcagtcaatcgggctgaaggactcc	AA096532
78977	actccctgttggcccactcttctga	AA096532
78978	atttgagtggctctgcgctaaggca	AA096532
78979	gtggctctgcgctaaggcaagggtt	AA096532
78980	cttcagcttagcccaggtggtttcg	AA096532
78981	tcagcttagcccaggtggtttcgag	AA096532
78982	tttcgagtgccatttggccctggac	AA096532
78983	tcgagtgccatttggccctggacat	AA096532
78984	gacatgccattcccagggtgagaat	AA096532

SEQ ID NO	sequence	DBAxnID
121521	agctacaacatacgtaggtcaatcc	W33559
121522	ctacaacatacgtaggtcaatccgg	W33559
121523	atggctgcgcccatctctgtgattc	W33559
121524	gccacgcgatgaccgtgcaagtgga	W33559
121525	ccacgcgatgaccgtgcaagtggat	W33559
121526	cacgcgatgaccgtgcaagtggatc	W33559
121527	acgcgatgaccgtgcaagtggatcc	W33559
121528	cgcgatgaccgtgcaagtggatcca	W33559
121529	gcgatgaccgtgcaagtggatccag	W33559
121530	gaccgtgcaagtggatccagtgctt	W33559
121531	gccagcagcagctacaacatacgta	W33559
121532	gctaactcggatccattagccaagg	AA033408
121533	aactcggatccattagccaaggaca	AA033408
121534	ttgttttcttggcatgggaggcttt	AA033408
121535	tgttttcttggcatgggaggctttt	AA033408
121536	ttcttggcatgggaggcttttccct	AA033408
121537	tcttggcatgggaggcttttcccta	AA033408
121538	tgcccctagagccacagctgacctg	AA033408
121539	cccctagagccacagctgacctgtg	AA033408
121540	ccctagagccacagctgacctgtgt	AA033408
121541	cctagagccacagctgacctgtgtg	AA033408
121542	gagccacagctgacctgtgtggaaa	AA033408
121543	gccacagctgacctgtgtggaaaca	AA033408
121544	actcggatccattagccaaggacag	AA033408
121545	ctcggatccattagccaaggacagg	AA033408
121546	cggatccattagccaaggacaggat	AA033408
121547	tccattagccaaggacaggatctct	AA033408
121548	ccattagccaaggacaggatctctt	AA033408
121549	ggacaggatctcttttcctgaccct	AA033408
121550	gacaggatctcttttcctgaccctc	AA033408
121551	ccttgttttcttggcatgggaggct	AA033408
121552	aagctctgcatcctgcttcacgcct	M86672
121553	acccgcgtcgtgaccatcaacaggg	M86672
121554	tctgttctcccatcacatctcatct	M86672
121555	atctccccaaaggtggcacagctac	M86672
121556	tccccaaaggtggcacagctacctc	M86672
121557	gtggcacagctacctcagcatggtg	M86672
121558	cagcatggtgccctccatcgcttct	M86672
121559	catcgcttctctcatattcactata	M86672
121560	ttctctcatattcactatacaagtt	M86672
121561	catattcactatacaagttgtttgt	M86672
121562	ttatgaaaacactcagtcacccctt	M86672
121563	tgaaaacactcagtcacccctatt	M86672
121564	accatcaacagggtgatgggctatc	M86672
121565	atgggctatctgagctccgcctgaa	M86672
121566	ggctatctgagctccgcctgaaagc	M86672
121567	tgaaagctcaaggccctctgccaca	M86672
121568	ctcctcacacagataggaaacaaag	M86672
121569	tggtcttggcctggtgggcttaagc	M86672
121570	gggcttaagctccttcaggaatctg	M86672
121571	aagctccttcaggaatctgttctcc	M86672
121572	agctttcgtgcccttcgcgatagcg	W83286
121573	tttcgtgcccttcgcgatagcgggc	W83286
121574	atctttcaagatggacctcatctta	W83286
121575	caagatggacctcatcttagatgta	W83286
121576	ggacctcatcttagatgtaaacatt	W83286
121577	tgacaagttccggttggttatagct	W83286
121578	tggtaccttggatgatggtgaatac	W83286
121579	tgaatacaaccccacagatgacagg	W83286
121580	atacaaccccacagatgacaggcct	W83286
121581	cacagatgacaggccttccagggct	W83286
121582	agatgacaggccttccagggctgac	W83286
121583	tgacaggccttccagggctgaccag	W83286
121584	gcccttcgcgatagcgggcatcctg	W83286
121585	cttcgcgatagcgggcatcctgttc	W83286
121586	cgcgatagcgggcatcctgttcgag	W83286
121587	gggcatcctgttcgaggatattttc	W83286
121588	catcctgttcgaggatattttcgat	W83286

TABLE 1

SEQ ID NO	sequence	DBAxnID
36381	cgtccgtgctgtttgcccagcagat	AA003984
36382	ccgtgctgtttgcccagcagatctg	AA003984
36383	cccagcagatctgcgagggcatggc	AA003984
36384	agcagatctgcgagggcatggccta	AA003984
36385	gcatggcctacctgcacgctcagca	AA003984
36386	acctgcacgctcagcactacattca	AA003984
36387	tgcacgctcagcactacattcaccg	AA003984
36388	acgctcagcactacattcaccgaga	AA003984
36389	cctgcggacgctgtaccacgaacat	AA003984
36390	ctcagcactacattcaccgagacct	AA003984
36391	gacgctgtaccacgaacatattgtc	AA003984
36392	gctgtaccacgaacatattgtcaag	AA003984
36393	gtaccacgaacatattgtcaagtat	AA003984
36394	gtctgtacagctggtcatggagtac	AA003984
36395	tgtacagctggtcatggagtacgtc	AA003984
36396	acagctggtcatggagtacgtccct	AA003984
36397	cagcctccgagactacctgccaagg	AA003984
36398	atctatgaccggaaatttctgatgg	U28656
36399	aaggacctgccagccattcctgggg	U28656
36400	cctcataccaggcagacactgggtg	U28656
36401	tgccagctctgccttgaattttgtg	U28656
36402	ctctgccttgaattttgtgaacacc	U28656
36403	gaacaccagcacatacctccttgtg	U28656
36404	ccttgtgcctctgtctataccgagc	U28656
36405	gtctataccgagctgctactgcagg	U28656
36406	accgagctgctactgcaggggaatg	U28656
36407	ctgctactgcaggggaatgactctc	U28656
36408	ccggagcacacccatctttccttag	U28656
36409	cacacccatctttccttaggctggg	U28656
36410	gccattcctggggtcactagcccta	U28656
36411	cctggggtcactagccctaccagcg	U28656
36412	accagcgatgagcctcccatgcaag	U28656
36413	gatgagcctcccatgcaagccagcc	U28656
36414	cccagcagcccggaagataagcggg	U28656
36415	taagggaccagccgtaggacgcaat	U28656
36416	agctgcacagcattcaggcctcata	U28656
36417	ttcaggcctcataccaggcagacac	U28656
36418	tagtccgtatgtggatgcgctcaaa	AA004038
36419	ctcctccatggtcaacaagctgaac	AA004038
36420	acactctgagctgcaacacgctagt	AA004038
36421	actctgagctgcaacacgctagtca	AA004038
36422	agctgcaacacgctagtcagccgca	AA004038
36423	ctgcaacacgctagtcagccgcagc	AA004038
36424	gcaacacgctagtcagccgcagcaa	AA004038
36425	ccgcagcaacggctgggcacaatga	AA004038
36426	aatgactcgagacttctgggacagc	AA004038
36427	tcgagacttctgggacagcctagag	AA004038
36428	gacttctgggacagcctagagtaat	AA004038
36429	cttctgggacagcctagagtaataa	AA004038
36430	cctccatggtcaacaagctgaacct	AA004038
36431	agtgtcacagtaggtgcatgcctaa	AA004038
36432	gtcaacaagctgaacctgaatcata	AA004038
36433	acaagctgaacctgaatcatacatg	AA004038
36434	gctgaacctgaatcatacatggaaa	AA004038
36435	tgaacctgaatcatacatggaaaac	AA004038
36436	aacctgaatcatacatggaaaacta	AA004038
36437	ctacggacactctgagctgcaacac	AA004038
36438	ggacactctgagctgcaacacgcta	AA004038
36439	atgccaggcttttctcaggagcttc	D50086
36440	ggcttttctcaggagcttcaatgag	D50086
36441	aatccaagatgctggcactaggcgt	D50086
36442	tggcactaggcgttattcagtgggc	D50086
36443	ttattcagtgggccctttgatgga	D50086
36444	agtgggccctttgatggacatgtg	D50086
36445	gacctgtagcccagtgcccagagca	D50086
36446	tagcccagtgcccagagcatattat	D50086
36447	atattatcataaccacatttcaggg	D50086
36448	tcataaccacatttcaggggacgcc	D50086

SEQ ID NO	sequence	DBAxnID
78985	catgccattcccagggtgagaatttt	AA096532
78986	tgccattcccagggtgagaatttcc	AA096532
78987	caagcccagggaatcggctatggca	AA096532
78988	tgttggcccactcttctgaccctgt	AA096532
78989	cttctgaccctgtggagatgcgaag	AA096532
78990	taactaccagaccccaggtatgcga	AA096532
78991	taccagaccccaggtatgcgagacc	AA096532
78992	tccccatcactggactgggcaggaa	AA096532
78993	catcactggactgggcaggaatatt	AA096532
78994	tcactggactgggcaggaatatttg	AA096532
78995	atatttgagtggctctgcgctaagg	AA096532
78996	attggcgcatacactggagctaagg	X94310
78997	gcatacactggagctaaggagaagg	X94310
78998	aaatcctgtacttagatccactttg	X94310
78999	tgtacttagatccactttgactgaa	X94310
79000	tagatccactttgactgaatccaaa	X94310
79001	gactgaatccaaagttcccatttca	X94310
79002	atccaaagttcccatttcagatact	X94310
79003	catttcagatactccacatctacct	X94310
79004	tctacctggctctcctgttcagtgt	X94310
79005	tcctgttcagtgtgtgtgcattgat	X94310
79006	gtttctctctggatggcacaattat	X94310
79007	ttcgattcactacaggataaaagat	X94310
79008	gaacaacacattcaggcaccacggg	X94310
79009	tcttattaaacatcccgtggaatct	X94310
79010	cacattcaggcaccacgggtggcta	X94310
79011	attctgcaattttgatgaagaatag	X94310
79012	agaatagcactgccttcaaagaaag	X94310
79013	atgccaagaacttcagactgtgttc	X94310
79014	agaacttcagactgtgttcatttgg	X94310
79015	tcagactgtgttcatttggtttgat	X94310
79016	catttggtttgattcaggtgctcaa	X94310
79017	tgtttccttctgtaaaacaatgctc	U40408
79018	tactaccccatgacaggcctttcag	U40408
79019	aagagggcccactgcaggttctcag	U40408
79020	agggcccactgcaggttctcaggca	U40408
79021	cactgcaggttctcaggcagagggt	U40408
79022	aatcacaggcacagggacacacgga	U40408
79023	cttatagacctacaggtgattttgt	U40408
79024	atagacctacaggtgattttgtagt	U40408
79025	tgcacctcttagaaactggaaataa	U40408
79026	gaaataagtccagcacggtagcata	U40408
79027	atcccagcactcaggagggcagagg	U40408
79028	aacacagtcttgatccttcctgccc	U40408
79029	ggcctttcaggttgcctctgacaga	U40408
79030	tatcactaggctctccaaagctgtt	U40408
79031	gctctccaaagctgttgtcagccta	U40408
79032	caaagctgttgtcagcctaactcat	U40408
79033	tgttgtcagcctaactcatactcta	U40408
79034	tgtcagcctaactcatactctaaag	U40408
79035	aactcatactctaaagggaatctgt	U40408
79036	aatctgtgcatattgccatgtgcta	U40408
79037	tcccatcctaagaactgctagatcc	AA096612
79038	catcctaagaactgctagatcccgt	AA096612
79039	gacacttggctcttgttgggagaac	AA096612
79040	acttggctcttgttgggagaacaga	AA096612
79041	ctcttgtccacagcctgtgctcagc	AA096612
79042	ttgtccacagcctgtgctcagctcc	AA096612
79043	acagcctgtgctcagctccaactgc	AA096612
79044	gcctgtgctcagctccaactgctgc	AA096612
79045	tgtgctcagctccaactgctgcatc	AA096612
79046	ctccaactgctgcatctcccagagg	AA096612
79047	caactgctgcatctcccagaggctc	AA096612
79048	agctgcatagagcctacctgatcac	AA096612
79049	aactgctagatcccgtgtgacatca	AA096612
79050	atagagcctacctgatcacagctcc	AA096612
79051	tgctagatcccgtgtgacatcacca	AA096612
79052	tagatcccgtgtgacatcaccagtc	AA096612

SEQ ID NO	sequence	DBAxnID
121589	agacatcgacccagaaggcaagaaa	W83286
121590	catcgacccagaaggcaagaaattt	W83286
121591	atcccggctgcactgtgagagtgaa	W83286
121592	atatgttctgtggacctggagtcaa	M29855
121593	tctgtggacctggagtcaatggaca	M29855
121594	cctatctcttggcctcactcactgg	M29855
121595	cctcactcactggatggcagccaca	M29855
121596	tcactggatggcagccacatgtctt	M29855
121597	gatggcagccacatgtcttcaaatt	M29855
121598	ttgatttcaaccctaagcaggcaga	M29855
121599	tcaaccctaagcaggcagatcaagt	M29855
121600	tgttccttggtctatgttcactgca	M29855
121601	ttggtctatgttcactgcagcaaag	M29855
121602	tcaacactttctaaagtgactgctc	M29855
121603	ctttctaaagtgactgctctagaga	M29855
121604	attgcatcatttctccacctatttg	M29855
121605	tcatttctccacctatttgtgctct	M29855
121606	ctccacctatttgtgctctgtcagg	M29855
121607	ctatttgtgctctgtcaggcactcc	M29855
121608	tgtcaggcactccatgatccatcgt	M29855
121609	gcactccatgatccatcgttttacg	M29855
121610	gacctggatctggtctgtcctatct	M29855
121611	gtctgtcctatctcttggcctcact	M29855
121612	gcattccacttggccttatgctgtt	M86671
121613	cacttggccttatgctgttgaaata	M86671
121614	ttagcttttgtgacaaccaataaga	M86671
121615	atattctgacacaagcagtgttaca	M86671
121616	ttagcactagtttcaacaccaagaa	M86671
121617	tatgcttttaattccagcactcagg	M86671
121618	tttaattccagcactcaggagacca	M86671
121619	ggcagatctctgtgagtttgaggac	M86671
121620	cagcctggtgtacagagggagttcc	M86671
121621	gagttccagcacagccagtgccaca	M86671
121622	cagcacagccagtgccacacagaaa	M86671
121623	tgccacacagaaattctgtctcaaa	M86671
121624	tttctgcatttcacatttgtatacc	M86671
121625	catttcacatttgtataccaagatg	M86671
121626	gctcgtggcctgatccactgggacc	M86671
121627	atccactgggaccaggccctattat	M86671
121628	tgggaccaggccctattatgcaaat	M86671
121629	gcttgttatcttcttcaacagctct	M86671
121630	cttcaacagctcttcaatcagggct	M86671
121631	cagctcttcaatcagggctgcgtag	M86671
121632	gtcgcatctgagaagtccttgtctc	W70905
121633	tccttgtctcctgcctctgtgttgg	W70905
121634	tgcagttgccctggtgtaggcataa	W70905
121635	tgccctggtgtaggcataatacagt	W70905
121636	atacagtgtcagttcttagtggagt	W70905
121637	cagttcttagtggagtctggggtgt	W70905
121638	aagacagcttcaaagcacaggacag	W70905
121639	gcttcaaagcacaggacagctgaca	W70905
121640	tcaaagcacaggacagctgacagtg	W70905
121641	aagcacaggacagctgacagtgtgt	W70905
121642	acagctgacagtgtgtccttcacgg	W70905
121643	ttcacgggctcagtgaccatcccac	W70905
121644	gcctctgtgttggtccctttcctg	W70905
121645	caccctagctgacagtgtgtccttc	W70905
121646	gtccctttttcctgggaccagatctg	W70905
121647	tttcctgggaccagatctgcctgct	W70905
121648	gggaccagatctgcctgcttgtgga	W70905
121649	agatctgcctgcttgtggaataagt	W70905
121650	tctgcctgcttgtggaataagtgaa	W70905
121651	tgaacttgcagttgccctggtgtag	W70905
121652	acttgcagttgccctggtgtaggca	W70905
121653	agcagtgctgacatagccctggata	W33640
121654	gtgctgacatagccctggatatcga	W33640
121655	gtcacgctggagtctcatgaaacac	W33640
121656	cacgctggagtctcatgaaacacga	W33640

TABLE 1

SEQ ID NO	sequence	DBAxnID
36449	ggacgccaacgtccatccacctttg	D50086
36450	acctttgcatcgctacctgcagcga	D50086
36451	gcgtcacctacagacacaagcaggt	D50086
36452	catcgctacctgcagcgagcacagg	D50086
36453	cctacagacacaagcaggtgactgc	D50086
36454	gaatcatgtacaagcctgctttctt	D50086
36455	tgtacaagcctgctttcttctcttg	D50086
36456	tctcttggtttcatttgggtaatca	D50086
36457	agaagccatttgagaccaagtgtga	D50086
36458	tcttctcggaaactgcaaaatccaa	D50086
36459	ctgcaaaatccaagatgctggcact	D50086
36460	tctccgtgaggctgctgccatccat	U33557
36461	tgaggctgctgccatccatgtactg	U33557
36462	gactcttatactcagtgccttgtga	U33557
36463	cagtgccttgtgatttctgctctca	U33557
36464	gctctcagatttttttcggactggcc	U33557
36465	gagaggctctctgtacctcggcctc	U33557
36466	cctctggcagagacagcagggtgct	U33557
36467	tcgtagcaggctttcagcctggccc	U33557
36468	aggctcaggtccagcttactgttgc	U33557
36469	ctgttgcagctgcctgagcagcctg	U33557
36470	cagcctggatcctgcctgaggttag	U33557
36471	caatgctttctggcaaaagagaggg	U33557
36472	tgctgccatccatgtactggttaca	U33557
36473	gaaactgctggatccctctatgtcc	U33557
36474	tatgtcccagtagccaaggaccatc	U33557
36475	ccagtagccaaggaccatcctacat	U33557
36476	gccaaggaccatcctacatcggtct	U33557
36477	gaccatcctacatcggtctgccttt	U33557
36478	tgcctttccacagactcttatactc	U33557
36479	tccacagactcttatactcagtgcc	U33557
36480	gtacatgctggtcttagtgctggct	U34293
36481	ctcccagctacaggatgcatcatct	U34293
36482	tcctcaacacttcatagcagacctg	U34293
36483	acacttcatagcagacctgtccaag	U34293
36484	catagcagacctgtccaagaaagag	U34293
36485	agacctgtccaagaaagagaggcca	U34293
36486	ggactagcaacactcttccagagcc	U34293
36487	cgctagcttccaatgtatccctgag	U34293
36488	cttccaatgtatccctgagtcatgt	U34293
36489	atgtatccctgagtcatgtcatgct	U34293
36490	gtcatgtcatgcttgactggagagg	U34293
36491	agacccaagagtagcactaatcaag	U34293
36492	gctacaggatgcatcatctggacca	U34293
36493	cttacttactgctctttcaaaggat	U34293
36494	ggatgcatcatctggaccagggacc	U34293
36495	tggaccagggaccaatgaggacctg	U34293
36496	ggacctggaacagcgccagttcaac	U34293
36497	ggaacagcgccagttcaacaagctg	U34293
36498	gcgccagttcaacaagctgggctca	U34293
36499	agcctctcaccatcgaaggcagctg	U34293
36500	ccagggtcctcaacacttcatagca	U34293
36501	ttgggccttgagcggcagtttccga	W85247
36502	tgggccttgagcggcagtttccgag	W85247
36503	gtgactcgcgctgtgctgctgacct	W85247
36504	tgactcgcgctgtgctgctgacctc	W85247
36505	ctgtgctgctgacctcgtcctggcc	W85247
36506	gggatgctcagctggtactgctccg	W85247
36507	atgctcagctggtactgctccggcc	W85247
36508	ctcagctggtactgctccggccgcg	W85247
36509	tcagctggtactgctccggccgcgg	W85247
36510	cgcggcgcctcatgaacgtcaacgg	W85247
36511	ggcgcctcatgaacgtcaacgggcg	W85247
36512	gcctcatgaacgtcaacgggcgcac	W85247
36513	cttgagcggcagtttccgaggctcg	W85247
36514	cctcatgaacgtcaacgggcgcacg	W85247
36515	ttgagcggcagtttccgaggctcgg	W85247
36516	gcacccggcacagtgtgggcatggc	W85247

SEQ ID NO	sequence	DBAxnID
79053	gctgccactgctagaagctctgagc	AA096612
79054	gccactgctagaagctctgagctct	AA096612
79055	gctagaagctctgagctctgtgctg	AA096612
79056	ggcacaggcactgacacttggctct	AA096612
79057	actgacacttggctcttgttgggag	AA096612
79058	aaagctcagcttgctgccttaaaca	U74359
79059	tttcttctgtcttatccgctcacag	U74359
79060	tttcagtacccagtatatgaaaagc	U74359
79061	ttgtttgccaaacctggtaactctg	U74359
79062	aactctgttcattattcgcaggatt	U74359
79063	gttcattattcgcaggattaaagat	U74359
79064	taaagatctctctattggaatccat	U74359
79065	tctctctattggaatccatttcaaa	U74359
79066	tattggaatccatttcaaaggttgt	U74359
79067	ttgctcttatacagcgagtactttt	U74359
79068	ttatacagcgagtacttttattcca	U74359
79069	tacttttattccaacactagcaggg	U74359
79070	tatccgctcacaggcacagttaagc	U74359
79071	ctcacaggcacagttaagcagctgg	U74359
79072	gttaattcctctaactgtgagagca	U74359
79073	tcctctaactgtgagagcagatgag	U74359
79074	gtaattccttctgttcgcaaatcaa	U74359
79075	ccttctgttcgcaaatcaactggct	U74359
79076	aaatcaactggcttcgtgtttcagt	U74359
79077	ttcgtgtttcagtacccagtatatg	U74359
79078	aaagtccttactcagatgggctctc	U58993
79079	cttactcagatgggctctccgctga	U58993
79080	tgaccaacacatttgtattttatga	U58993
79081	gtattcgtgttcattgtgattaact	U58993
79082	tgcccctgttgaaatgtttagcatt	U58993
79083	tagttcatcacataatgaaatttta	U58993
79084	tgccttaccacctttgaaaaagcat	U58993
79085	accacctttgaaaaagcatacattg	U58993
79086	tgcaaaacctcaaagtagggcttgc	U58993
79087	cactgcagtcctccttgaccgtaag	U58993
79088	tgcagtcctccttgaccgtaagaca	U58993
79089	agtcctccttgaccgtaagacatga	U58993
79090	cagatgggctctccgctgaacccca	U58993
79091	ctgaaccccatttcttctgtttcat	U58993
79092	cccatttcttctgtttcatagtgca	U58993
79093	atttcttctgtttcatagtgcagaa	U58993
79094	tctgtttcatagtgcagaagtattc	U58993
79095	aatttccagtacagatgctgtgagc	U58993
79096	taattgtgaccaacacatttgtatt	U58993
79097	ttgtgaccaacacatttgtatttta	U58993
79098	acactctcgcactagctgtttgata	U11548
79099	tcgcactagctgtttgatactcaag	U11548
79100	gcaaggacccattcataagcttatg	U11548
79101	tttgcttcagtgctttgtccacgaa	U11548
79102	tcagtgctttgtccacgaatggtct	U11548
79103	tcaaacaatgcctgctggcttcagg	U11548
79104	tgctggcttcagggccacagtccgc	U11548
79105	cccagcctatggaatcttcctctga	U11548
79106	ctatggaatcttcctctgactcgag	U11548
79107	aatcttcctctgactcgagcctctc	U11548
79108	gactgtccaagatggcgtctgtgga	U11548
79109	acagcctgagctctggcaccctcgg	U11548
79110	agcttcaggcactcgtggatcacgt	U11548
79111	atcacgttcagcaggacccgacaga	U11548
79112	ttcagcaggacccgacagagcacca	U11548
79113	atggctctcagttcttctcaggaca	U11548
79114	tcttctcaggacacagcgctacact	U11548
79115	acagcgctacacttctgctctgagg	U11548
79116	cccgacaactgcacataatccgagc	U11548
79117	aactgcacataatccgagccccaca	U11548
79118	gacattagcacaaaacttccatcga	D45022
79119	attagcacaaaacttccatcgaagc	D45022
79120	ttatctgatcccatgagccagtctg	D45022

SEQ ID NO	sequence	DBAxnID
121657	tctcatgaaacacgacacaattcta	W33640
121658	atgaaacacgacacaattctatcac	W33640
121659	gaaacacgacacaattctatcacgg	W33640
121660	aacacgacacaattctatcacgggg	W33640
121661	acacaattctatcacggggaatgtg	W33640
121662	acaattctatcacggggaatgtgac	W33640
121663	aattctatcacggggaatgtgacat	W33640
121664	ttctatcacggggaatgtgacattt	W33640
121665	gctgacatagccctggatatcgaga	W33640
121666	ccctcttcaagacttcctccaatgg	W33640
121667	ctcttcaagacttcctccaatggca	W33640
121668	cttcaagacttcctccaatggcata	W33640
121669	aagacttcctccaatggcataggag	W33640
121670	tcctccaatggcataggagtcacgc	W33640
121671	aggagtcacgctggagtctcatgaa	W33640
121672	gagtcacgctggagtctcatgaaac	W33640
121673	gaggagtcccagcgcatcaacgcca	W33517
121674	ggagtcccagcgcatcaacgccaac	W33517
121675	agctgcagcgcgactgagatgaggc	W33517
121676	ctgcagcgcgactgagatgaggcca	W33517
121677	gcagcgcgactgagatgaggccaca	W33517
121678	gaggtgaacgccctcaagagcaaac	W33517
121679	tgaacgccctcaagagcaaactcag	W33517
121680	aacgccctcaagagcaaactcagga	W33517
121681	cgccctcaagagcaaactcaggaga	W33517
121682	ccctcaagagcaaactcaggagagg	W33517
121683	cgaggcttcatttgttccttccaga	W33517
121684	aggcttcatttgttccttccagaag	W33517
121685	cgcatcaacgccaaccgcatgaagc	W33517
121686	ggcttcatttgttccttccagaagg	W33517
121687	catcaacgccaaccgcatgaagctg	W33517
121688	tcaacgccaaccgcatgaagctgca	W33517
121689	ccaaccgcatgaagctgcagcgcga	W33517
121690	aaccgcatgaagctgcagcgcgact	W33517
121691	ccgcatgaagctgcagcgcgactga	W33517
121692	gcatgaagctgcagcgcgactgaga	W33517
121693	atgaagctgcagcgcgactgagatg	W33517
121694	ggcctagaaactcacagatggcctg	M27960
121695	gaaactcacagatggcctggcagtg	M27960
121696	cactgccagttacccacatatgacc	M27960
121697	cagttacccacatatgaccagaagc	M27960
121698	tatgaccagaagccagggctcctgg	M27960
121699	cagaagccagggctcctgggatgtg	M27960
121700	ccagggctcctgggatgtggaagat	M27960
121701	cccagcgggcacgataactggcagt	M27960
121702	gataactggcagtcaaggcgatacc	M27960
121703	tcaaggcgatacctcgagggaactg	M27960
121704	aacacctagtctgtttgcaaggagg	M27960
121705	tagtctgtttgcaaggaggacagga	M27960
121706	cacagatggcctggcagtggcatgg	M27960
121707	acaggtattgccccacagaggccat	M27960
121708	attgccccacagaggccattcattg	M27960
121709	ttcattgaacagccaggactgggac	M27960
121710	cctgctgtcctccgctcagttgtag	M27960
121711	gacacaaacttgattgcccaaagtc	M27960
121712	attgcccaaagtcactgccagttac	M27960
121713	caaagtcactgccagttacccacat	M27960
121714	cgtctacatcagctcactcacatcg	W33678
121715	tctacatcagctcactcacatcgca	W33678
121716	ctgatttcgacagaatctcgccaac	W33678
121717	gatttcgacagaatctcgccaacgg	W33678
121718	tcgacagaatctcgccaacggcgtt	W33678
121719	gacagaatctcgccaacggcgttcg	W33678
121720	gaatctcgccaacggcgttcgtaca	W33678
121721	atctcgccaacggcgttcgtacact	W33678
121722	ctattcgagagtcgccattaggcga	W33678
121723	attcgagagtcgccattaggcgaga	W33678
121724	gagtcgccattaggcgagaacgagc	W33678

TABLE 1

SEQ ID NO	sequence	DBAxnID
36517	catggcggtgctggggcaaatagca	W85247
36518	agaattggactcgtgactcgcgctg	W85247
36519	gaattggactcgtgactcgcgctgt	W85247
36520	gactcgtgactcgcgctgtgctgct	W85247
36521	tcgtgactcgcgctgtgctgctgac	W85247
36522	aacacacagatgtgcagtgagcggg	D43921
36523	gagctcgcagagctgcaggcccgcc	D43921
36524	tgacatcgcccttgggatgacgagc	D43921
36525	catcgcccttgggatgacgagccaa	D43921
36526	gatgacgagccaagcctgaggctga	D43921
36527	gacgagccaagcctgaggctgacac	D43921
36528	ggtgtccaggtcactccaagacaca	D43921
36529	gcaccatggagcccagtgcccggga	D43921
36530	ccatggagcccagtgcccgggacgt	D43921
36531	gtgcccgggacgttactgtcagcat	D43921
36532	acgttactgtcagcatgcctgcagc	D43921
36533	gcatgcctgcagctgttctatagta	D43921
36534	gcagccgtgaacagtctccgcaaac	D43921
36535	gccgtgaacagtctccgcaaacagc	D43921
36536	gtgaacagtctccgcaaacagcatg	D43921
36537	agtctccgcaaacagcatgaggctg	D43921
36538	ctccgcaaacagcatgaggctgctg	D43921
36539	tcatctctgagttctaagtgacatc	D43921
36540	agttctaagtgacatcgcccttggg	D43921
36541	aagtgacatcgcccttgggatgacg	D43921
36542	tgcggcatcttgttttcatagtcta	U03873
36543	atcttgttttcatagtctatataaa	U03873
36544	attaaatacaatcatactcttacat	U03873
36545	tacaatcatactcttacattttagt	U03873
36546	tctttgttcccagctttgctttggc	U03873
36547	ttcccagctttgctttggcaatttt	U03873
36548	tgaacttgaccaaaccacgttgcca	U03873
36549	aaccacgttgccatgctgtgtctag	U03873
36550	gttgccatgctgtgtctagtttacc	U03873
36551	tggtttaacaattcctacctcacag	U03873
36552	ctcacagggatgttgtgaggctaca	U03873
36553	ggctacatccatttgccttgaccgt	U03873
36554	aatcctcatcaaggtcagagagcaa	U03873
36555	tccatttgccttgaccgtaagacat	U03873
36556	attagccaggcagctgtttgagaac	U03873
36557	cagcttccatttttatgttagggct	U03873
36558	tgagttgactctgatcttgagtgta	U03873
36559	gactctgatcttgagtgtaaagtct	U03873
36560	tatatcatctgacttatcatgagaa	U03873
36561	gacagcactctttctctacttcata	U03873
36562	tctctacttcataggaatatgaaag	U03873
36563	gatcattccaggcacagtagttctc	U43205
36564	tccaggcacagtagttctcatcggc	U43205
36565	catggcaccagcatgaaccgtgtta	U43205
36566	gcaggttttgccttcgcatggctgg	U43205
36567	tggctggctgctgtaactcactgtc	U43205
36568	gctgctgtaactcactgtcgctctg	U43205
36569	gtaactcactgtcgctctgctttct	U43205
36570	tctttgctctttgtatcacatcaac	U43205
36571	tccaaaccctaaggatcatgtcatc	U43205
36572	ggatcatgtcatcacaaaagtaatt	U43205
36573	tagaaaaatcctctatgtgtggtga	U43205
36574	aatcctctatgtgtggtgactgctt	U43205
36575	catcggctcaacgagcagtcccgac	U43205
36576	ctcaacgagcagtcccgacacagca	U43205
36577	gagcagtcccgacacagcagcatcc	U43205
36578	cacagcagcatccgagacctcagta	U43205
36579	ctcagtaacaaccccatgactcaca	U43205
36580	cccatgactcacattacacatggca	U43205
36581	actcacattacacatggcaccagca	U43205
36582	attacacatggcaccagcatgaacc	U43205
36583	caaagactctgattcttccaaagag	AA007747
36584	aagactctgattcttccaaagagcc	AA007747

SEQ ID NO:	sequence	DBAxnID
79121	gatcccatgagccagtctgtggccg	D45022
79122	atgagccagtctgtggccgatttgc	D45022
79123	cagtctgtggccgatttgccaccaa	D45022
79124	ttgccaccaaagcttcaaaagatgg	D45022
79125	ccaccaaagcttcaaaagatggctg	D45022
79126	atgaactctgaccgtttcacatagc	D45022
79127	gataagataatcctccctatgaaat	D45022
79128	aggtctatcctagcctggcaaatag	D45022
79129	tctatcctagcctggcaaatagatc	D45022
79130	aaacttccatcgaagctgcagaaaa	D45022
79131	atgagttctacaacctcagaaaaag	D45022
79132	tctacaacctcagaaaaagcctata	D45022
79133	ttgcccatgaaactccaacgaataa	D45022
79134	atgaaactccaacgaataagttcag	D45022
79135	cgaataagttcagttcctggcaact	D45022
79136	tctaaaaccaccaagatgttatctg	D45022
79137	atgttatctgatcccatgagccagt	D45022
79138	cagactgtcttcccatcaacttgta	X56044
79139	ccatcaacttgtagctgttctagac	X56044
79140	gcttatcctgtttgagaggatgcaa	X56044
79141	gatgcaacaacaccccaatggcata	X56044
79142	acaacaccccaatggcatagaagcc	X56044
79143	tcctgatatcactccacaggaaaca	X56044
79144	tatcactccacaggaaacagagatt	X56044
79145	agagatttccctctcataagggaag	X56044
79146	ttccctctcataagggaagtatagg	X56044
79147	gaggctgcctactacagttcaatga	X56044
79148	gcctactacagttcaatgagtgaac	X56044
79149	agtgaacacctgtgtcctaatgatg	X56044
79150	acgggctggcctacattctaaggtg	X56044
79151	tggcctacattctaaggtgattctg	X56044
79152	gattctggccatccggaaagctgag	X56044
79153	caagcgactcctgtatgtttcctgt	X56044
79154	agccatgggcaactttgtggacctc	X56044
79155	ggacctctgcagggccccatctaac	X56044
79156	attccatccagtcaaggctgtggca	X56044
79157	tccagtcaaggctgtggcagtggac	X56044
79158	gtccagtctatctgcatcggccaac	X55781
79159	cagtctatctgcatcggccaaccct	X55781
79160	gtacaccgcctacaatgaggcttgg	X55781
79161	cgcctacaatgaggcttggagattc	X55781
79162	tgccgctgcctatgaccgccactag	X55781
79163	cgctgcctatgaccgccactagtta	X55781
79164	accgcggggaccacatcaagcttca	X55781
79165	gggaccacatcaagcttcaggcaga	X55781
79166	accacatcaagcttcaggcagacag	X55781
79167	acatcaagcttcaggcagacagctt	X55781
79168	agcttcaggcagacagcttcggcct	X55781
79169	caccctgtcgatggccagacaggac	X55781
79170	ggccaaccctgagctgggcagcaat	X55781
79171	tgtgtcaggcacacagacgtacccc	X55781
79172	aggcacacagacgtaccccgttgtg	X55781
79173	cgttgtgaccggtcgtgatatgacg	X55781
79174	gacgagcaccactctacctggttac	X55781
79175	caccctggcaggaatggtgcctggg	X55781
79176	cgagttctcaggcaacccatacagc	X55781
79177	gttctcaggcaacccatacagccat	X55781
79178	agccagtccttgtacataaaagagt	AA096791
79179	ccttaattcagagtgccaggcagaa	AA096791
79180	tgctccatcagagaattcacacttc	AA096791
79181	ccatcagagaattcacacttcaggg	AA096791
79182	atcagagaattcacacttcagggaa	AA096791
79183	gagaattcacacttcagggaatccc	AA096791
79184	gaattcacacttcagggaatcccta	AA096791
79185	tcacacttcagggaatccctacaaa	AA096791
79186	acacttcagggaatccctacaaatg	AA096791
79187	ttcagggaatccctacaaatgtgat	AA096791
79188	cagggaatccctacaaatgtgataa	AA096791

SEQ ID NO	sequence	DBAxnID
121725	cgccattaggcgagaacgagcagac	W33678
121726	cacatcgcacttcctgacgagaagt	W33678
121727	ctaacatgactaatcggcttctctg	W33678
121728	catgactaatcggcttctctggagc	W33678
121729	tgactaatcggcttctctggagctg	W33678
121730	taatcggcttctctggagctgattt	W33678
121731	atcggcttctctggagctgatttcg	W33678
121732	gcttctctggagctgatttcgacag	W33678
121733	ttctctggagctgatttcgacagaa	W33678
121734	agcatctcttgataaacttaattgt	M25892
121735	taaacttaattgtctctcgtcactg	M25892
121736	aactctagtgttctcatggagctgc	M25892
121737	agtgttctcatggagctgcagagac	M25892
121738	tgcctggattcatcgataagctgca	M25892
121739	aatgagtccaagtccacatcactga	M25892
121740	tccaagtccacatcactgaaagact	M25892
121741	tccacatcactgaaagacttcctgg	M25892
121742	tcactgaaagacttcctggaaagcc	M25892
121743	ttcctggaaagcctaaagagcatca	M25892
121744	tagtactgagccaccatgctttaac	M25892
121745	tgagccaccatgctttaacttatga	M25892
121746	taattgtctctcgtcactgacggca	M25892
121747	gtcactgacggcacagagctattga	M25892
121748	ctgctcttctttctcgaatgtacca	M25892
121749	tgtaccaggagccatatccacggat	M25892
121750	catatccacggatgcgacaaaaatc	M25892
121751	aacaccacagagagtgagctcgtct	M25892
121752	ctcgtctgtagggcttccaaggtgc	M25892
121753	gcttccaaggtgcttcgcatatttt	M25892
121754	cactgctcacgtcatggcacgcact	W33686
121755	actgctcacgtcatggcacgcactc	W33686
121756	ccgaacgagccgatccacaacgagc	W33686
121757	cgaacgagccgatccacaacgagct	W33686
121758	gaacgagccgatccacaacgagctc	W33686
121759	aacgagccgatccacaacgagctca	W33686
121760	acgagccgatccacaacgagctcac	W33686
121761	gagccgatccacaacgagctcacca	W33686
121762	tgctcacgtcatggcacgcactccg	W33686
121763	tcacgtcatggcacgcactccgcat	W33686
121764	gaacgagccgaacgagccgatccac	W33686
121765	aacgagccgaacgagccgatccaca	W33686
121766	acgagccgaacgagccgatccacaa	W33686
121767	gagccgaacgagccgatccacaacg	W33686
121768	agccgaacgagccgatccacaacga	W33686
121769	gccgaacgagccgatccacaacgag	W33686
121770	ctctcctaacagataagctggagtc	J03783
121771	ggaccaagaccatccaattcatctt	J03783
121772	ggacattcctcactgtggtcagaaa	J03783
121773	aatatatcctgttgtcaggtatctg	J03783
121774	tcctgttgtcaggtatctgacttat	J03783
121775	gacttatgttgttctctacgaagaa	J03783
121776	atgataacctaaaaatctatttgat	J03783
121777	tattctgttacctagccagatggtt	J03783
121778	gttacctagccagatggtttcttgg	J03783
121779	tagccagatggtttcttggaatgta	J03783
121780	ataagtttacctcaatgaattgcta	J03783
121781	ttacctcaatgaattgctaatttaa	J03783
121782	agaccatccaattcatcttgaaatc	J03783
121783	tccaattcatcttgaaatcacttga	J03783
121784	tcatcttgaaatcacttgaagaatt	J03783
121785	ctttgagatctactcggcaaaccta	J03783
121786	gatctactcggcaaacctagtgcgt	J03783
121787	ctcggcaaacctagtgcgttatgcc	J03783
121788	aaacctagtgcgttatgcctaagca	J03783
121789	ttatgcctaagcatatcagtttgtg	J03783
121790	gaaggttccaatgcctacagctcct	D14010
121791	tccaatgcctacagctcctattgtt	D14010
121792	ctctacaaatcctgggcaactgggt	D14010

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36585	tcttccaaagagccgttggatgatc	AA007747	79189	atccctacaaatgtgataaatgtca	AA096791	121793	tgggcaactgggtctcctaacagtt	D14010
36586	ttccaaagagccgttggatgatctc	AA007747	79190	aattcagagtgccaggcagaaaact	AA096791	121794	tccaatcgtggctactgtgtatctc	D14010
36587	tccaaagagccgttggatgatctct	AA007747	79191	ttcagagtgccaggcagaaaacttg	AA096791	121795	cgtggctactgtgtatctctgactt	D14010
36588	gttggatgatctcttcccaaatgac	AA007747	79192	tagtaggatctcagccttaatgctc	AA096791	121796	gacaactgtgatgcccaatactcat	D14010
36589	ttggatgatctcttcccaaatgacg	AA007747	79193	gtaggatctcagccttaatgctcca	AA096791	121797	taaattggaccatctatcaaaagca	D14010
36590	ggatgatctcttcccaaatgacgag	AA007747	79194	gatctcagccttaatgctccatcag	AA096791	121798	ggaccatctatcaaaagcaaattag	D14010
36591	gatgatctcttcccaaatgacgagg	AA007747	79195	tctcagccttaatgctccatcagag	AA096791	121799	ttcactgtcctatggtacctgtatc	D14010
36592	atgatctcttcccaaatgacgagga	AA007747	79196	agccttaatgctccatcagagaatt	AA096791	121800	gtcctatggtacctgtatctccatt	D14010
36593	tgatctcttcccaaatgacgaggac	AA007747	79197	ccttaatgctccatcagagaattca	AA096791	121801	tggtacctgtatctccattattttc	D14010
36594	gatctcttcccaaatgacgaggacg	AA007747	79198	tcagatactttcccaaccaagcttt	AA096793	121802	gcctacagctcctattgttactact	D14010
36595	agactctgattcttccaaagagccg	AA007747	79199	agattaattccagcagatctttctt	AA096793	121803	agctcctattgttactacttcactg	D14010
36596	atctcttcccaaatgacgaggacga	AA007747	79200	ttgcgcttgggctacattcttgtgc	AA096793	121804	aattcaggctacctggtgtcagttc	D14010
36597	actctgattcttccaaagagccgtt	AA007747	79201	tgcgcttgggctacattcttgtgcc	AA096793	121805	ggctacctggtgtcagttctcagtc	D14010
36598	ctctgattcttccaaagagccgttg	AA007747	79202	gcgcttgggctacattcttgtgcct	AA096793	121806	ggcactacagacgccaatgtctgga	D14010
36599	tctgattcttccaaagagccgttgg	AA007747	79203	tacattcttgtgccttgtgtacctc	AA096793	121807	actggactccatgatcccaaaagga	D14010
36600	ctgattcttccaaagagccgttgga	AA007747	79204	tcttgtgccttgtgtacctcttgat	AA096793	121808	gatcccaaaaggaatcgtcgctggc	D14010
36601	gattcttccaaagagccgttggatg	AA007747	79205	cttgtgccttgtgtacctcttgatt	AA096793	121809	ctgtttctctacaaatcctgggcaa	D14010
36602	attcttccaaagagccgttggatga	AA007747	79206	gtctagcagctgatgttggcaagct	AA096793	121810	gactgctgccgtcagcatatacata	X07962
36603	ttcttccaaagagccgttggatgat	AA007747	79207	tctagcagctgatgttggcaagctt	AA096793	121811	tgctgccgtcagcatatacatataa	X07962
36604	acataaacatcttctggcctacact	U43317	79208	ctagcagctgatgttggcaagcttg	AA096793	121812	ctggagggctcacggtgatggataa	X07962
36605	acatcttctggcctacactgtctgc	U43317	79209	tagcagctgatgttggcaagcttga	AA096793	121813	gtataacacataacttcagtaaagaga	X07962
36606	tccagtggatttctctctcctgaaa	U43317	79210	gattaattccagcagatctttcttg	AA096793	121814	taacacataacttcagtaaagagca	X07962
36607	ggatttctctctcctgaaatttcaa	U43317	79211	gaattcaaaggcctggtgactgcct	AA096793	121815	cacataacttcagtaaagagcatag	X07962
36608	ctctctcctgaaatttcaacatccc	U43317	79212	attaattccagcagatctttcttgg	AA096793	121816	tagaaatgcacttattccaaagata	X07962
36609	atttcaacatccctaattctaggca	U43317	79213	caataagtggttgcgcttgggctac	AA096793	121817	aaatgcacttattccaaagatactg	X07962
36610	acatccctaattctaggcagcccct	U43317	79214	ataagtggttgcgcttgggctacat	AA096793	121818	actgaaccttagtattcagtcgctt	X07962
36611	ttttgcactgcagcatgcctaatga	U43317	79215	aagtggttgcgcttgggctacattc	AA096793	121819	tagtattcagtcgcttttgacacttt	X07962
36612	actgcagcatgcctaatgagaggaa	U43317	79216	tggttgcgcttgggctacattcttg	AA096793	121820	tattcagtcgcttttgacacttgtg	X07962
36613	ggtgatcacttctgacaatcactta	U43317	79217	ggttgcgcttgggctacattcttgt	AA096793	121821	tcagtcgcttttgacacttgtgtat	X07962
36614	cacttctgacaatcacttaattcag	U43317	79218	gttgcgcttgggctacattcttgtg	AA096793	121822	tgcaatcatgtcaactgcaatgctt	X07962
36615	tgacaatcacttaattcagagaaaa	U43317	79219	tctacattcgtgcggccgaaaagct	AA096819	121823	aatcatgtcaactgcaatgctttta	X07962
36616	tctggcctacactgtctgctgttta	U43317	79220	acattcgtgcggccgaaaagcttcg	AA096819	121824	catgtcaactgcaatgcttttaaaa	X07962
36617	ctacactgtctgctgtttagaactc	U43317	79221	tgcgcatttaccacgttcgcattct	AA096819	121825	attcagagtcaccactgttttctta	X07962
36618	ctgtttagaactctgtagcgcactc	U43317	79222	gcatttaccacgttcgcattctgag	AA096819	121826	cagagtcaccactgttttcttagca	X07962
36619	agaactctgtagcgcactcccagag	U43317	79223	tttaccacgttcgcattctgagggt	AA096819	121827	gtggaactgtcctgttttagactgg	X07962
36620	gtcaaaatccttcagtgccttgtcg	U43317	79224	acgttcgcattctgagggttgaatt	AA096819	121828	ctgtcctgttttagactggagatac	X07962
36621	cagtgccttgtcgtaaaacagaatt	U43317	79225	ttcgcattctgagggttgaattcta	AA096819	121829	atactggagggctcacggtgatgga	X07962
36622	tactgtactaacacacgtaaggtat	U43317	79226	ttgaattctacttcctgttccaata	AA096819	121830	aaccctctcttgccatgaacctgtc	M29697
36623	actaacacacgtaaggtatccagtg	U43317	79227	tcctgttccaatatgttttcgcaag	AA096819	121831	ctcttgccatgaacctgtcctattg	M29697
36624	caaattacagtagaccccatggtat	AA007816	79228	atgttttcgcaagcgacttcccatt	AA096819	121832	cctgctgctattatccattggcttc	M29697
36625	aaattacagtagaccccatggtatg	AA007816	79229	tcgcaagcgacttcccattccggca	AA096819	121833	gctattatccattggcttctctgtg	M29697
36626	catggcctgaaggacccatggccaa	AA007816	79230	caagcgacttcccattccggcaaat	AA096819	121834	atccattggcttctctgtgacattg	M29697
36627	gcctgaaggacccatggccaatgct	AA007816	79231	agatttacagcctcgagccgaacga	AA096819	121835	tggcttctctgtgacattgtaggag	M29697
36628	ctgaaggacccatggccaatgctgc	AA007816	79232	tttacagcctcgagccgaacgatta	AA096819	121836	ctctgtgacattgtaggaggaacta	M29697
36629	tgaaggacccatggccaatgctgct	AA007816	79233	acagcctcgagccgaacgattagcc	AA096819	121837	ggaactatggccaatctacaggagt	M29697
36630	aaggacccatggccaatgctgctgc	AA007816	79234	agccgaacgattagcctctgatgcg	AA096819	121838	atggccaatctacaggagttcaaca	M29697
36631	aggacccatggccaatgctgctgcc	AA007816	79235	cgaacgattagcctctgatgcgcat	AA096819	121839	atggagtcctcctatgtgagtcctc	M29697
36632	cccacagaagctgattcctccgcaa	AA007816	79236	attagcctctgatgcgcatttacca	AA096819	121840	tcctcctatgtgagtcctcctatgt	M29697
36633	acagaagctgattcctccgcaacca	AA007816	79237	agcctctgatgcgcatttaccacgt	AA096819	121841	agtcctcctatgtgtggagacacca	M29697
36634	agaagctgattcctccgcaaccaac	AA007816	79238	ctctgatgcgcatttaccacgttcg	AA096819	121842	ccatgaacctgtcctattgttgagt	M29697
36635	gaagctgattcctccgcaaccaaca	AA007816	79239	gaagacttcagaccttatccctaat	AA096843	121843	tgtcaaacatcaccactaagtggat	M29697
36636	attacagtagaccccatggtatggg	AA007816	79240	cttcagaccttatccctaatcccat	AA096843	121844	acatcaccactaagtggatggttat	M29697
36637	ttacagtagaccccatggtatggga	AA007816	79241	tatccctaatcccatattgccggaa	AA096843	121845	ccattatccaaactgagtcgttttg	M29697
36638	acagtagaccccatggtatgggagg	AA007816	79242	atccctaatcccatattgccggaag	AA096843	121846	gcataccatgaccatgtgtcaaagg	M29697
36639	tcagccgcctggagggcctcccaag	AA007816	79243	tccctaatcccatattgccggaagt	AA096843	121847	catgaccatgtgtcaaaggaagtgg	M29697
36640	ctcccaagccatggcctgaaggacc	AA007816	79244	gttttccagtgccccatttgaccag	AA096843	121848	gaccatgattttcctgctgctatta	M29697
36641	tcccaagccatggcctgaaggaccc	AA007816	79245	ttccagtgccccatttgaccaggta	AA096843	121849	gattttcctgctgctattatccatt	M29697
36642	ccaagccatggcctgaaggacccat	AA007816	79246	tccagtgccccatttgaccaggtaa	AA096843	121850	tgactgccaggtcatcacagctcgc	W33725
36643	caagccatggcctgaaggacccatg	AA007816	79247	tgccccatttgaccaggtaaacaag	AA096843	121851	actgccaggtcatcacagctcgctt	W33725
36644	caaagatcgggactgtggggaatct	U43319	79248	ttcagaccttatccctaatcccata	AA096843	121852	gcctggtcattgttctccaaacaca	W33725
36645	ggaatctgcagggcccagttccaag	U43319	79249	tcagaccttatccctaatcccatat	AA096843	121853	ctggtcattgttctccaaacacatc	W33725
36646	tctgcctgttcactcagcttccaga	U43319	79250	cagaccttatccctaatcccatatt	AA096843	121854	tgcagcccacaagctgtcctcactg	W33725
36647	tgttcactcagcttccagagctagg	U43319	79251	agaccttatccctaatcccatattg	AA096843	121855	acaagctgtcctcactgcatctctg	W33725
36648	tgctggcagccattccgacgcttga	U43319	79252	gaccttatccctaatcccatattgc	AA096843	121856	aagctgtcctcactgcatctctgtc	W33725
36649	atgaccaactgatttgtcttataaa	U43319	79253	ccttatccctaatcccatattgccg	AA096843	121857	tcctcactgcatctctgtcactaca	W33725
36650	ggttgtctcccagcactgcaaaagg	U43319	79254	cttatccctaatcccatattgccgg	AA096843	121858	cactgcatctctgtcactacaggga	W33725
36651	ctcccagcactgcaaaaggaaaatt	U43319	79255	ttatccctaatcccatattgccgga	AA096843	121859	ctgcatctctgtcactacagggaag	W33725
36652	tcactgttacagtcttccttgcact	U43319	79256	acccagcctacatctcaatgaaagc	U28168	121860	ctctgtcactacagggaaggctgct	W33725

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36653	ttacagtcttccttgcacttaacca	U43319	79257	cctacatctcaatgaaagccatcga	U28168	121861	ctgtcactacagggaaggctgctca	W33725
36654	tcttccttgcacttaaccagctttg	U43319	79258	tcatccgtcctatcttcctcaggca	U28168	121862	aggtcatcacagctcgcttggccca	W33725
36655	ttgcacttaaccagctttgtctatg	U43319	79259	tcctcaggcacgagtcccaggtaga	U28168	121863	gtcatcacagctcgcttggcccagc	W33725
36656	tccaaagagcagcgttcctgagact	U43319	79260	agactgcagatgccatcagcaaaga	U28168	121864	catcacagctcgcttggcccagcag	W33725
36657	cgttcctgagactggcctgatagac	U43319	79261	ctgcagatgccatcagcaaagaagt	U28168	121865	agcagctgcggcacgcttcaggtgt	W33725
36658	gatagactgcagcacttcacaggcc	U43319	79262	cagtgaacttgctgggcgatgtgaa	U28168	121866	cggcacgcttcaggtgtggtttccg	W33725
36659	ctgcagcacttcacaggccgccagt	U43319	79263	acttgctgggcgatgtgaagaagag	U28168	121867	gcacgcttcaggtgtggtttccggg	W33725
36660	acaggccgccagttctccagaacca	U43319	79264	cctggagctctgtgtcatgctaggg	U28168	121868	gcttcaggtgtggtttccgggcctg	W33725
36661	ttctccagaaccaaccagcctcaag	U43319	79265	ggagctctgtgtcatgctagggaca	U28168	121869	ttccgggcctggtcattgttctcca	W33725
36662	aaccagcctcaagggctccacatct	U43319	79266	agtggcacagtgcttggataatgtt	U28168	121870	tgatccatgataacaaccctaaagt	W33728
36663	cacatctctgcctgttcactcagct	U43319	79267	tgccttggaaacttcccgctgtatt	U28168	121871	ccatgataacaaccctaaagttcag	W33728
36664	tctttcgcatccgcaccatcatgaa	U43320	79268	agagtcccaacaaagatgatgacac	U28168	121872	cggacaccttcaccattacaggcca	W33728
36665	gcatccgcaccatcatgaagcacga	U43320	79269	aagatgatgacacccagtggctgac	U28168	121873	gacaccttcaccattacaggccatg	W33728
36666	ccatgatcgtgggcatcactacggg	U43320	79270	atgatgacacccagtggctgacgta	U28168	121874	caccttcaccattacaggccatgct	W33728
36667	gcttctggatctggtcgggcaagac	U43320	79271	atgacacccagtggctgacgtactg	U28168	121875	ccttcaccattacaggccatgctga	W33728
36668	gcaagaccctgcagtcatggcgtcg	U43320	79272	ctgagatgctctacaggcgaatcat	U28168	121876	ttcaccattacaggccatgctgaga	W33728
36669	ccctgcagtcatggcgtcgcttcta	U43320	79273	tctacaggcgaatcatccgtcctat	U28168	121877	caccattacaggccatgctgagaca	W33728
36670	agtcatggcgtcgcttctaccacag	U43320	79274	acaggcgaatcatccgtcctatctt	U28168	121878	ccattacaggccatgctgagacaaa	W33728
36671	ggcgtcgcttctaccacagactcag	U43320	79275	ggcgaatcatccgtcctatcttcct	U28168	121879	attacaggccatgctgagacaaagc	W33728
36672	gcttctaccacagactcagccacag	U43320	79276	taggcccattgattgtttgtcggaa	U49430	121880	tacaggccatgctgagacaaagcag	W33728
36673	accacagactcagccacagcagcaa	U43320	79277	acatcaaaacatactctgaacaccc	U49430	121881	caggccatgctgagacaaagcagct	W33728
36674	gactcagccacagcagcaaggggga	U43320	79278	aatacaagcacaggggagtatacag	U49430	121882	gataacaacccctaaagttcaggcat	W33728
36675	cctccactgagctttaacctggaag	U43320	79279	tatacagttctgatgtctttgacct	U49430	121883	ctaaagttcaggcatccctggcagc	W33728
36676	tgcgcatcggcgtcttcagcgtgct	U43320	79280	cacctggaacctggttactccactg	U49430	121884	ttcaggcatccctggcagcggacac	W33728
36677	tgttggcctgctacttttatgagca	U43320	79281	gaacctggttactccactgccacgt	U49430	121885	caggcatccctggcagcggacacct	W33728
36678	gcacctggctcctgcagacttgcaa	U43320	79282	ggttactccactgccacgtgactga	U49430	121886	ggcatccctggcagcggacaccttc	W33728
36679	ggctcctgcagacttgcaagagcta	U43320	79283	tccactgccacgtgactgaccatgt	U49430	121887	cctggcagcggacaccttcaccatt	W33728
36680	cttgcaagagctacgctgtgccctg	U43320	79284	tgactgaccatgtccatgctgggat	U49430	121888	gcagcggacaccttcaccattacag	W33728
36681	tgagccccgactttacagtcttcat	U43320	79285	accatgtccatgctgggatggcaac	U49430	121889	agcggacaccttcaccattacaggc	W33728
36682	agtacctgatgaccatgatcgtggg	U43320	79286	tccatgctgggatggcaactaccta	U49430	121890	tgtctttcagcatggcatcattacc	D17630
36683	tgatgaccatgatcgtgggcatcac	U43320	79287	agactaagtctggctgaatgaaata	U49430	121891	ctttcagcatggcatcattaccaga	D17630
36684	tcatttctccagctcttgattcgct	AA007871	79288	ttggaaacctacaaggcctcacaat	U49430	121892	gagttgatccatcctaacactgaga	D17630
36685	catttctccagctcttgattcgctc	AA007871	79289	acctacaaggcctcacaatgcacgt	U49430	121893	atccatcctaacactgagaccccaa	D17630
36686	cttatcatgcctgtagtagcctccc	AA007871	79290	aaggcctcacaatgcacgtgaaaga	U49430	121894	taagaagcacactttacaattacgt	D17630
36687	atcatgcctgtagtagcctccctac	AA007871	79291	tcaactggtatctgatgggaatggg	U49430	121895	gaagcacactttacaattacgtgag	D17630
36688	atgcctgtagtagcctccctactga	AA007871	79292	acactgtacacttccacggccacag	U49430	121896	gcacactttacaattacgtgagatc	D17630
36689	tgcctgtagtagcctccctactgag	AA007871	79293	tccacggccacagcttccaatacaa	U49430	121897	attacgtgagatctgcctctaccca	D17630
36690	tagtagcctccctactgaggagacc	AA007871	79294	gccacagcttccaatacaagcacag	U49430	121898	tgagatctgcctctacccatgcaga	D17630
36691	gtagcctccctactgaggagaccag	AA007871	79295	gcttccaatacaagcacaggggagt	U49430	121899	ctgcctctacccatgcagaacagtt	D17630
36692	tagcctccctactgaggagaccagc	AA007871	79296	cattgccaaggcacagaagaggaga	D87691	121900	ctacccatgcagaacagttagcagt	D17630
36693	gcctccctactgaggagaccagcag	AA007871	79297	ttaactccagaacaagagaaggata	D87691	121901	ctcttcaccttaccagtagacgagt	D17630
36694	cctccctactgaggagaccagcagc	AA007871	79298	gagtccaacagatccctgccttaca	D87691	121902	catcattaccagagactgtggtatt	D17630
36695	tccctactgaggagaccagcagccc	AA007871	79299	aacagatccctgccttacaattgga	D87691	121903	tcctctacattacagggagaaagag	D17630
36696	ttctccagctcttgattcgctcctg	AA007871	79300	tccctgccttacaattggagcattt	D87691	121904	ggtcacgttcttcttagcagagccc	D17630
36697	ctccagctcttgattcgctcctgta	AA007871	79301	agcatttccagaacttaatccgtga	D87691	121905	ccctatatggctgtctgacccccctt	D17630
36698	tccagctcttgattcgctcctgtac	AA007871	79302	tccagaacttaatccgtgagcattg	D87691	121906	ccttcatcattggtatgcctactga	D17630
36699	cagctcttgattcgctcctgtacca	AA007871	79303	acttaatccgtgagcattggatact	D87691	121907	tcatcattggtatgcctactgatag	D17630
36700	agctcttgattcgctcctgtaccag	AA007871	79304	acactttggtttgtcgtggtgtcag	D87691	121908	ttggtatgcctactgatagagttga	D17630
36701	ctcttgattcgctcctgtaccaggg	AA007871	79305	tggtttgtcgtggtgtcagcgcagc	D87691	121909	gtatgcctactgatagagttgatcc	D17630
36702	ggtcttatcatgcctgtagtagcct	AA007871	79306	gtgtcagcgcagcagccgacaacta	D87691	121910	gagtcgagactcgcactgggaacct	W33796
36703	gtcttatcatgcctgtagtagcctc	AA007871	79307	gcgcagcagccgacaactaagtctc	D87691	121911	agactcgcactgggaacctggtgac	W33796
36704	gttgttacagctgtggcctgtaata	AA007899	79308	aaatctcacttcacagacaaagaga	D87691	121912	tcctgggccttgcaacgagccttca	W33796
36705	tgttacagctgtggcctgtaataag	AA007899	79309	cgcagcagccgacaactaagtctct	D87691	121913	ttgcaacgagccttcagcctgagca	W33796
36706	atcttgagaacctgttgatagttgc	AA007899	79310	cacttcacagacaaagagactggac	D87691	121914	caacgagccttcagcctgagcagtg	W33796
36707	aacctgttgatagttgcccagagta	AA007899	79311	atgcctctcttggaatggtttgcta	D87691	121915	ttcagcctgagcagtgttatggctc	W33796
36708	cctgttgatagttgcccagagtatc	AA007899	79312	gaatttttgaccttgatgactact	D87691	121916	agcctgagcagtgttatggctctct	W33796
36709	tagttgcccagagtatcagcaagat	AA007899	79313	tttgaccttgatgactactaggtag	D87691	121917	gttatggctctctgcctggaatgta	W33796
36710	gttgcccagagtatcagcaagatct	AA007899	79314	cctccagcattcaacccaaggagca	D87691	121918	gctctctgcctggaatgtactgctt	W33796
36711	atggatacatttcctagcttcagat	AA007899	79315	gcattcaacccaaggagcatacccg	D87691	121919	ctctgcctggaatgtactgcttgga	W33796
36712	atacatttcctagcttcagatttga	AA007899	79316	atacccgtggtggagtccaacagat	D87691	121920	actgcttggaattgcgcttgcgcct	W33796
36713	acatttcctagcttcagatttgatg	AA007899	79317	tcatctttagcagacttgatgggtc	U25691	121921	tgcgcttgcgccttcccttcgtagt	W33796
36714	atttcctagcttcagatttgatgat	AA007899	79318	tctttagcagacttgatgggtccat	U25691	121922	acctggtgacgcaagacgaggcaag	W33796
36715	ttcctagcttcagatttgatgatcc	AA007899	79319	taaacttgactgcagcagatacagt	U25691	121923	acgaggcaagctcatgcacgtccgg	W33796
36716	ttacagctgtggcctgtaataagta	AA007899	79320	tgactgcagcagatacagtgatcat	U25691	121924	caagctcatgcacgtccggctacag	W33796
36717	cctagcttcagatttgatgatccca	AA007899	79321	attggaatcctcagtctgatctcca	U25691	121925	ctgacctaggcaacgagaggcttgt	W33796
36718	ataagtaacttgatcctgtacagaa	AA007899	79322	ggaatcctcagtctgatctccaggc	U25691	121926	cacctggacatgccctgctcagcag	W33796
36719	aacttgatcctgtacagaaactctt	AA007899	79323	atcctcagtctgatctccaggctca	U25691	121927	ccctgctcagcagtgtcatcctggg	W33796
36720	cttgatcctgtacagaaactcttcg	AA007899	79324	agtctgatctccaggctcaagatag	U25691	121928	gtgtcatcctgggccttgcaacgag	W33796

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36721	tgatcctgtacagaaactcttcgtg	AA007899	79325	ctgatctccaggctcaagatagatg	U25691	121929	tcatcctgggccttgcaacgagcct	W33796
36722	attacgaatcgaggcgacaggcatc	AA007899	79326	atctccaggctcaagatagatgtca	U25691	121930	gagctaatgcaactcctaaaatttc	M31419
36723	tcgaggcgacaggcatcttgagaac	AA007899	79327	ttgttgtgtatcgtcttgtaacagc	U25691	121931	atgcaactcctaaaatttcttatct	M31419
36724	gcatcttgagaacctgttgatagtt	AA007899	79328	tgtatcgtcttgtaacagcaaatac	U25691	121932	tgaaaacctgaatgccaatgatatt	M31419
36725	gcctgccttttctatgagcagcaca	U43321	79329	ttgatgggtccatgtcttattcgga	U25691	121933	atatcagtcctataaagattatctc	M31419
36726	cttttctatgagcagcacaaccgac	U43321	79330	ggtccatgtcttattcggaaagaga	U25691	121934	gattatctcttaattctaggaaatg	M31419
36727	tccctctacagcgacgtcagtaccg	U43321	79331	atatatacagtttcaacacggatcc	U25691	121935	ttatctcttaattctaggaaatggt	M31419
36728	tacagcgacgtcagtaccggcctga	U43321	79332	acagtttcaacacggatccagatgt	U25691	121936	tctttacacattttctatatctaaa	M31419
36729	ggcacggccagctctgtatcttacc	U43321	79333	tcaacacggatccagatgtttttct	U25691	121937	tacacattttctatatctaaattca	M31419
36730	gccagctctgtatcttaccctaagc	U43321	79334	ttttcttagtgagtacacgagctgg	U25691	121938	cacattttctatatctaaattcatt	M31419
36731	tcttaccctaagcaaatgccattgt	U43321	79335	tgagtacacgagctggtggtttagg	U25691	121939	aaattcatttgttgtctctataact	M31419
36732	cctaagcaaatgccattgtcccagg	U43321	79336	gcataaacttgactgcagcagatac	U25691	121940	taacttctataactgttcaatttgc	M31419
36733	caaatgccattgtcccaggtctgaa	U43321	79337	taatccaccaaatgcaatggctcag	D78572	121941	ttctataactgttcaatttgcaatt	M31419
36734	tcccagtgttgactgctatagcatg	U43321	79338	accaaatgcaatggctcagacaatt	D78572	121942	atttcttatcttttctcacaagcaa	M31419
36735	ttaatggtatccattagcagcgggg	U43321	79339	gagtcctagacctgggtgtatttgc	D78572	121943	cttatcttttctcacaagcaagggg	M31419
36736	gtatccattagcagcggggacttaa	U43321	79340	tatttgcactttggggccctgttgc	D78572	121944	tatcttttctcacaagcaaggggga	M31419
36737	tatgagcagcacaaccgaccgcgct	U43321	79341	ctgttgctagccatcactgtgccag	D78572	121945	ttctcacaagcaaggggacatttg	M31419
36738	cagcacaaccgaccgcgctgggagg	U43321	79342	ctagccatcactgtgccagagcaag	D78572	121946	acttccactgaagatgggtggcagc	M31419
36739	caggctcgcaggcccgattacgcgg	U43321	79343	atcactgtgccagagcaagcacgct	D78572	121947	atgcaggtcatcaatgctagaaagt	M31419
36740	tacgcggtcttcatgctcaagtact	U43321	79344	gagcaagcacgctgagaaggctagt	D78572	121948	gaaccatacttctgaaaacctgaat	M31419
36741	gtcttcatgctcaagtacttcatgt	U43321	79345	ggctagtctccatagttgatggtta	D78572	121949	tacttctgaaaacctgaatgccaat	M31419
36742	atgctcaagtacttcatgtgcctag	U43321	79346	aatgttacttccacaaaatatgtga	D78572	121950	tatttgagctcattcaaagtggccc	AA165803
36743	ttcatgtgcctagtagtgggcatca	U43321	79347	acttccacaaaatatgtgaatttgc	D78572	121951	agctcattcaaagtggcccagtatg	AA165803
36744	tggtccggcaagactctggagtcct	U43321	79348	ctgcttctgagaggcaatgtgaaag	D78572	121952	ccattatgagcagcagcaagaagat	AA165803
36745	gccaggaccggcaactgaaaatcgt	AA062342	79349	gacaattaagcactgcctttcgtct	D78572	121953	aagatctagcccgaaatctgggcaa	AA165803
36746	gacctccttagctacgtgttttgct	AA062342	79350	taagcactgcctttcgtctttcttt	D78572	121954	gatctagcccgaaatctgggcaaag	AA165803
36747	tgaatgttactcttcaagtttggga	AA062342	79351	tgtaactcacttggtaaaagcaaat	D78572	121955	taaacaggtcaactacaatgatggc	AA165803
36748	tgttactcttcaagtttgggatata	AA062342	79352	gaggctgccagtgttggtacctgtg	D78572	121956	aactacaatgatggctcccaggagg	AA165803
36749	ttactcttcaagtttgggatatagg	AA062342	79353	gccagtgttggtacctgtggatttt	D78572	121957	ctacaatgatggctcccaggaggac	AA165803
36750	actcttcaagtttgggatataggag	AA062342	79354	ggcccgctaagttctgctgagcagg	D78572	121958	acaatgatggctcccaggaggaccg	AA165803
36751	atacatctatggagcacagggaatc	AA062342	79355	ctaagttctgctgagcaggcctgtc	D78572	121959	aatgatggctcccaggaggaccgag	AA165803
36752	acatctatggagcacagggaatcct	AA062342	79356	tgttccttaccggtgagactgggct	D78572	121960	atggctcccaggaggaccgagattg	AA165803
36753	agcacagggaatcctcttggtatat	AA062342	79357	tttgtcctacagcttgtggtgtcta	X97755	121961	ctcccaggaggaccgagattggcag	AA165803
36754	cacagggaatcctcttggtatatga	AA062342	79358	cttgtggtgtctatgggccagatat	X97755	121962	ctcattcaaagtggcccagtatgtg	AA165803
36755	gggaatcctcttggtatatgatatt	AA062342	79359	gcccagagcgtgctggacagcaaag	X97755	121963	cattcaaagtggcccagtatgtggt	AA165803
36756	gaatcctcttggtatatgatattac	AA062342	79360	aactaaagagccggagagtgggctg	X97755	121964	caaagtggcccagtatgtggtacgg	AA165803
36757	cctccttagctacgtgttttgctca	AA062342	79361	gagtccctgctgatgaggcgctctc	X97755	121965	agtgtggatcctgactactgggaga	AA165803
36758	tccttagctacgtgttttgctcaag	AA062342	79362	ttcccagaagactcaaatcttcttc	X97755	121966	tcctgactactgggagaaattgctg	AA165803
36759	cttagctacgtgttttgctcaagag	AA062342	79363	gaagactcaaatcttcttcctcctc	X97755	121967	aaattgctgcggcaccattatgagc	AA165803
36760	tagctacgtgttttgctcaagagac	AA062342	79364	tcaaatcttcttcctcctcgcacag	X97755	121968	tgctgcggcaccattatgagcagca	AA165803
36761	gctacgtgttttgctcaagagacat	AA062342	79365	cagaactatcggacttgtcccactc	X97755	121969	ggcaccattatgagcagcagcaaga	AA165803
36762	tacgtgttttgctcaagagacattt	AA062342	79366	acttgtcccactcaaacatgatgag	X97755	121970	acctggctgagttcactcacgtgga	W33838
36763	ttttgctcaagagacatttgggaag	AA062342	79367	cccactcaaacatgatgagtgagca	X97755	121971	tggctgagttcactcacgtggaagc	W33838
36764	tttgaatgttactcttcaagtttgg	AA062342	79368	acacaaagggccagagtcagaaaag	X97755	121972	tagtatgagctcaacccgaacttta	W33838
36765	ggaactatggctgcgacagttgtgt	AA007934	79369	ctacacgaaggactccagcatgggg	X97755	121973	cccaagcggcctttccgcaggatga	W33838
36766	aactatggctgcgacagttgtgtat	AA007934	79370	gaaggactccagcatggggagatag	X97755	121974	aagcggcctttccgcaggatgaact	W33838
36767	ctatcattggctatgccaggaaccc	AA007934	79371	ctccagcatggggagataggccacc	X97755	121975	cggcctttccgcaggatgaactact	W33838
36768	ggctatgccaggaacccgtctctta	AA007934	79372	gtgataccaagcatccttgtgcttg	X97755	121976	cctttccgcaggatgaactactcgg	W33838
36769	ctatgccaggaacccgtctcttaag	AA007934	79373	ccaagcatccttgtgcttgatgcca	X97755	121977	atgaactactcggatgctattgagt	W33838
36770	atgccaggaacccgtctcttaagca	AA007934	79374	atccttgtgcttgatgccataaagc	X97755	121978	aactactcggatgctattgagtggc	W33838
36771	tcttaagcaacaactcttctcatac	AA007934	79375	catctcactagtgcccagagcgtgc	X97755	121979	tactcggatgctattgagtggctga	W33838
36772	ttaagcaacaactcttctcatacgc	AA007934	79376	actagtgcccagagcgtgctggaca	X97755	121980	gggactttctacgagtttggagatg	W33838
36773	aagcaacaactcttctcatacgcta	AA007934	79377	tttcattcaaggcctccgaatttgg	L28117	121981	actttctacgagtttggagatgata	W33838
36774	caactcttctcatacgctattctag	AA007934	79378	tcaaggcctccgaatttggcgtcct	L28117	121982	agttcactcacgtggaagctgagtg	W33838
36775	actcttctcatacgctattctaggc	AA007934	79379	agtgtcttggctttctctgctgcta	L28117	121983	tcactcacgtggaagctgagtgtcc	W33838
36776	tcttctcatacgctattctaggctt	AA007934	79380	tgtcttggctttctctgctgctact	L28117	121984	aagctgagtgtcctttcctgacctt	W33838
36777	ctatggctgcgacagttgtgtatag	AA007934	79381	tccgctggttcctgctgtcattaaa	L28117	121985	acctagtgtgtgatgtggtggacag	W33838
36778	cttctcatacgctattctaggcttt	AA007934	79382	tttctagccatctctgtaagttgtg	L28117	121986	acagagtcctgaagtcaccagtggc	W33838
36779	atggctgcgacagttgtgtatagct	AA007934	79383	ctagccatctctgtaagttgtgcat	L28117	121987	tcctgaagtcaccagtggcaagcat	W33838
36780	tgtgtatagctggctctgggacaag	AA007934	79384	gccatctctgtaagttgtgcattca	L28117	121988	tgaagtcaccagtggcaagcatagt	W33838
36781	tgtatagctggctctgggacaagga	AA007934	79385	catctctgtaagttgtgcattcaaa	L28117	121989	agtcaccagtggcaagcatagtatg	W33838
36782	ttgggagtctctatcattggctatg	AA007934	79386	atctctgtaagttgtgcattcaaat	L28117	121990	tgtgggttccctgtcatcagggcaa	M95525
36783	gagtctctatcattggctatgccag	AA007934	79387	aaatgagtaccttatgcgcaataaa	L28117	121991	tgggttccctgtcatcagggcaagt	M95525
36784	gtctctatcattggctatgccagga	AA007934	79388	aatgagtaccttatgcgcaataaaa	L28117	121992	ttgaccctacgggatgtggacagct	M95525
36785	ctctatcattggctatgccaggaac	AA007934	79389	gttgccacgcacagacggtgctagc	L28117	121993	gaccctacgggatgtggacagctgc	M95525
36786	tttgttattcccattgaggaagtag	AA007780	79390	gccacgcacagacggtgctagcaat	L28117	121994	gctcgtcctggccaaggtgaaggct	M95525
36787	attcccattgaggaagtagaagttg	AA007780	79391	ccacgcacagacggtgctagcaatc	L28117	121995	tcgtcctggccaaggtgaaggctct	M95525
36788	ggatgccaacattcccagaagctta	AA007780	79392	acgcacagacggtgctagcaatcat	L28117	121996	gtcctggccaaggtgaaggctctat	M95525

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36789	atgccaacattcccagaagcttagg	AA007780	79393	cgcacagacggtgctagcaatcatg	L28117	121997	aggctctattcctagatgccttggg	M95525
36790	caacattcccagaagcttaggccga	AA007780	79394	gctcaggtgcagtgtcttggctttc	L28117	121998	gctctattcctagatgccttggggc	M95525
36791	acattcccagaagcttaggccgagt	AA007780	79395	aggtgcagtgtcttggctttctctg	L28117	121999	ataaggcgtctgcctcgaagacatg	M95525
36792	attcccagaagcttaggccgagttg	AA007780	79396	tgcagtgtcttggctttctctgctg	L28117	122000	ggcgtctgcctcgaagacatgccgt	M95525
36793	tcccagaagcttaggccgagttggc	AA007780	79397	gttgtacatccaggagcctggctac	X99384	122001	gtttcatgcacaggacctctgaacc	M95525
36794	ggccgtagcctagttcggcgatggc	AA007780	79398	catccaggagcctggctacctgtct	X99384	122002	ggttccctgtcatcagggcaagtga	M95525
36795	ccgtagcctagttcggcgatggcca	AA007780	79399	gtctgtccacgccttctcaggtttg	X99384	122003	ttcatgcacaggacctctgaaccag	M95525
36796	gtagcctagttcggcgatggccaag	AA007780	79400	cttctcaggtttgctggtgtctatt	X99384	122004	ccctgtcatcagggcaagtgaacta	M95525
36797	agcctagttcggcgatggccaagct	AA007780	79401	tttgtacaagtcagtgcttttcaga	X99384	122005	aactatggtgagccagcggtctctg	M95525
36798	tagaagttgcctttgcaggggtgaa	AA007780	79402	caagtcagtgcttttcagaaaaggt	X99384	122006	ctatggtgagccagcggtctctgct	M95525
36799	gaagttgcctttgcaggggtgaaag	AA007780	79403	tctagccagtgagtcagaggccaga	X99384	122007	ctctgctgctccttttgctgttgac	M95525
36800	ttgcctttgcaggggtgaaagccct	AA007780	79404	agagaccctcacactcttgtggtt	X99384	122008	ctgctgctccttttgctgttgaccc	M95525
36801	gaaagccctattccaattcgtaatg	AA007780	79405	ccttcacactcttgtggttggcact	X99384	122009	tgctccttttgctgttgaccctacg	M95525
36802	gccctattccaattcgtaatggatg	AA007780	79406	cactcttgtggttggcactgacttg	X99384	122010	ttttgctgttgaccctacgggatgt	M95525
36803	cctattccaattcgtaatggatgcc	AA007780	79407	atgctgggaccaatggcagatcact	X99384	122011	caacgccgtcatcaccaggatcatc	W87078
36804	tattccaattcgtaatggatgccaa	AA007780	79408	tctctgcctcagtgtgcactgtctg	X99384	122012	catcaccaggatcatcaaggaggcg	W87078
36805	atggatgccaacattcccagaagct	AA007780	79409	tggctacctgtcttacccctgaag	X99384	122013	cacatcctgtgccaataacttcgca	W87078
36806	ttatctgctacacacggatcatcaa	U28405	79410	atctctgggtagctgtccttcagga	X99384	122014	tgccaataacttcgcaatgaaagga	W87078
36807	tcatcaatgttttacacagaagacc	U28405	79411	ctgtccttcaggaagatgccagctg	X99384	122015	caataacttcgcaatgaaaggaaag	W87078
36808	agtacctctggcagttgtttcggag	U28405	79412	aagatgccagctgtgctatttgaag	X99384	122016	aaagcgcaagactctcaatgccagt	W87078
36809	tctggcagttgtttcggaggcatac	U28405	79413	ccagctgtgctatttgaagaggcca	X99384	122017	gactctcaatgccagtgacgtgctg	W87078
36810	ggcatacagctataaccctgccaca	U28405	79414	accctcttagctgaattcttttgca	X99384	122018	tctcaatgccagtgacgtgctgtca	W87078
36811	cagctataaccctgccacaatggct	U28405	79415	gaattcttttgcaagctgctgtatg	X99384	122019	caatgccagtgacgtgctgtcagcc	W87078
36812	taaccctgccacaatggctgccctt	U28405	79416	ctgtatgtctgtccacgccttctca	X99384	122020	cagtgacgtgctgtcagccatggaa	W87078
36813	gcctcccatccacagtggaaattga	U28405	79417	ggccccagagctaccgcacaaagct	U57820	122021	tgacgtgctgtcagccatggaagag	W87078
36814	aaattgagacctctgccgacttata	U28405	79418	cccagagctaccgcacaaagcttga	U57820	122022	cgtgctgtcagccatggaagagatg	W87078
36815	agacctctgccgacttataattcag	U28405	79419	ggcatctagagcctggtaggacaga	U57820	122023	gctcccggacggtgtcaacatctcc	W87078
36816	ctgccgacttataattcagaccctg	U28405	79420	atctagagcctggtaggacagaacc	U57820	122024	tgtcaacatctccaaggaggcccga	W87078
36817	aattcagaccctggacagaacaaag	U28405	79421	gctgccataactcagaacactgtga	U57820	122025	cgccgccagtgtcttcgttttgtat	W87078
36818	tcctcttggccccttattatctggc	U28405	79422	ataactcagaacactgtgaacggta	U57820	122026	tgtcttcgttttgtatgccacatcc	W87078
36819	tggccccttattatctggctgcctt	U28405	79423	tcagcgcttaccccagctttgagga	U57820	122027	cttcgttttgtatgccacatcctgt	W87078
36820	ctgcctttgtttctgcttttgaaga	U28405	79424	gcgcttaccccagctttgaggacag	U57820	122028	cgttttgtatgccacatcctgtgcc	W87078
36821	tattcacccctagttgtttgagaag	U28405	79425	accccagctttgaggacagaaaatg	U57820	122029	gtatgccacatcctgtgccaataac	W87078
36822	aggtggacctgtccttgatgataac	U28405	79426	ggcctaacccatagagtgacccaag	U57820	122030	tgccacatcctgtgccaataacttc	W87078
36823	acctgtccttgatgataactgaagc	U28405	79427	ctaacccatagagtgacccaagagg	U57820	122031	ttcttccagctcaagagccagaaac	M92649
36824	ctgaagcacttgcctacacccactg	U28405	79428	taaataaagacatccgttcaagctc	U57820	122032	gaagatatcttcggtgcagtctttt	M92649
36825	tccggaagtacctctggcagttgtt	U28405	79429	agagctaccgcacaaagcttgacgc	U57820	122033	agagaaaaactcaacctcctgactg	M92649
36826	caccctcactgaaccagtggtaatg	U37353	79430	ccaacccagatgtgagaaggtggga	U57820	122034	aacctcctgactgaagcactttggg	M92649
36827	cactgaaccagtggtaatggcactt	U37353	79431	gccaccgaacaggtctgctttcaga	U57820	122035	catgccgccgctctaatacttagct	M92649
36828	tccgtccttataccgcaactcaaag	U37353	79432	accgaacaggtctgctttcagacgc	U57820	122036	gccgccgctctaatacttagctgca	M92649
36829	gacccactggaacaagacaatacac	U37353	79433	gtctgctttcagacgcgtagcctgg	U57820	122037	gccgctctaatacttagctgcacta	M92649
36830	caagacaatacacggcttgatatac	U37353	79434	tgctttcagacgcgtagcctggtcc	U57820	122038	cttagctgcactatgtacagatatt	M92649
36831	aatacacggcttgatatacaacgcc	U37353	79435	gaccaggaacacggcatctagagcc	U57820	122039	gatacttttgtctactcccaatgat	M92649
36832	caacgccctgaaactcttcatggag	U37353	79436	cacggcatctagagcctggtaggac	U57820	122040	caatgatggcttgggcctttcctgt	M92649
36833	cctgaaactcttcatggagatgaac	U37353	79437	atgccgcatcaccgagtgggtcagc	U61969	122041	tggcttgggcctttcctgtataatt	M92649
36834	gatgaaccaaaaactcttcgatgac	U37353	79438	ggtcagcgtctgcaagtgagcagac	U61969	122042	cctttcctgtataattccttgatga	M92649
36835	ccaaaaactcttcgatgactgcact	U37353	79439	caccctaggacaggtcaccaaagca	U61969	122043	aagggcagcgccttggaggagccca	M92649
36836	cgatgactgcactcagcagttcaaa	U37353	79440	gcctggcatgcctacctcctgtcat	U61969	122044	gaggagcccaaagccacgaggctct	M92649
36837	tctagccaaagcgaatccccaggta	U37353	79441	caatgcactgaagctgatgggcacc	U61969	122045	aggctctgacagcccagagttccag	M92649
36838	ggtaatggcacttctcaaatactgg	U37353	79442	aatggccgtcatcgggctgaagtga	U61969	122046	gttccagcttctggcactgagtaaa	M92649
36839	tctcaaatactggccaaagactcac	U37353	79443	cgtcatcgggctgaagtgactctaa	U61969	122047	gcttctggcactgagtaaagataat	M92649
36840	gccaaagactcacagtccaaaagaa	U37353	79444	agggctccagacctctgctcctgtc	U61969	122048	gactactaaatctctctcctctcct	M92649
36841	gactcacagtccaaaagaagtaatg	U37353	79445	ctctgctcctgtctttcacttaaca	U61969	122049	tgcctctcactcttccttggagctg	M92649
36842	tgaaccatcagagtttgtgaagatc	U37353	79446	tcctgtctttcacttaacagatatt	U61969	122050	ttccttggagctgagagcagagaaa	M92649
36843	catggagcctcttttccgacagtta	U37353	79447	ttgcgctctctttgagacactctct	U61969	122051	gccctacaagtgcccagagtgtggg	W33741
36844	cagtgacaacgcagcgaagattctg	U37353	79448	agctccggagtctacaggctgatta	U61969	122052	agctccaacctgcttcgtcaccaga	W33741
36845	gattctgcccatcatgtttccgtcc	U37353	79449	cccaagctcctctgggtctcaagaa	U61969	122053	agttcacatcttgttattcatgaaa	W33741
36846	tgatctgacagctttcccatcagta	U14172	79450	caagcagcagccttggctcctgaga	U61969	122054	ttcacatcttgttattcatgaaaga	W33741
36847	gacagctttcccatcagtagaagtg	U14172	79451	cagccccgagggtctacaatcacca	U61969	122055	acatcttgttattcatgaaagaact	W33741
36848	tctttctgttgccaaaactgctttt	U14172	79452	cgagggtctacaatcaccagacagt	U61969	122056	cctttccctgagtgtggtcaaggca	W33741
36849	tgttgccaaaactgcttttccacta	U14172	79453	atcaccagacagtccagatctgatt	U61969	122057	ttccctgagtgtggtcaaggcatga	W33741
36850	tgcttttccactaattcatgccttt	U14172	79454	agacagtccagatctgattgacatt	U61969	122058	catgaatgacagtgccccctttctt	W33741
36851	tccactaattcatgcctttcaagca	U14172	79455	tctgattgacattcctccgctcacc	U61969	122059	ctttcttacaaaccacagagtggag	W33741
36852	aattcatgcctttcaagcattttaa	U14172	79456	ttctgttcctagctcagacagctgg	U61969	122060	tttcttacaaaccacagagtggaga	W33741
36853	tgacttcaattttggagtgtagtag	U14172	79457	gccacagcgccactgtgtctgaaga	AA097047	122061	tcttacaaaccacagagtggagaag	W33741
36854	ttggctcttattgaagccaacacgg	U14172	79458	agcgccactgtgtctgaagaacgcg	AA097047	122062	cttacaaaccacagagtggagaaga	W33741
36855	cttattgaagccaacacggaatttg	U14172	79459	ttcatcaacttctccctgataatga	AA097047	122063	gcttcgtcaccagaggatccacact	W33741
36856	gaagccaacacggaatttgctgctg	U14172	79460	catcaacttctccctgataatgaag	AA097047	122064	agagaggccctatcgctgtagtgaa	W33741

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
36857	aacacggaatttgctgctgtgtttt	U14172	79461	atcaacttctccctgataatgaagg	AA097047	122065	ccctatcgctgtagtgaatgtggca	W33741
36858	tatagcttctgatcagtgtagtaga	U14172	79462	cttctccctgataatgaaggaaaat	AA097047	122066	tatcgctgtagtgaatgtggcaaaa	W33741
36859	tttttagtcatcatcatgacgatgc	U14172	79463	ttctccctgataatgaaggaaaatt	AA097047	122067	ttctctcggagttcacatcttgtta	W33741
36860	atcatgacgatgctgctcaagtgca	U14172	79464	aaattgcttctaggcctgatcccgg	AA097047	122068	tctcggagttcacatcttgttattc	W33741
36861	acgatgctgctcaagtgcagatcca	U14172	79465	aattgcttctaggcctgatcccgga	AA097047	122069	tcggagttcacatcttgttattcat	W33741
36862	ctgctcaagtgcagatccagaacag	U14172	79466	ttgcttctaggcctgatcccggaga	AA097047	122070	gagttcacatcttgttattcatgaa	W33741
36863	agatccagaacagtacagcgttggg	U14172	79467	cttctaggcctgatcccggagaaat	AA097047	122071	gagtctttactgcttcttctgatat	J05149
36864	gtacagcgttgggttcctagagcat	U14172	79468	ttctaggcctgatcccggagaaatt	AA097047	122072	tcactagcttggctgagcaacctta	J05149
36865	gttcctagagcatttggtaaactgt	U14172	79469	caggcaacaagggcctttcacccag	AA097047	122073	cagaagtttccttcttctacagcga	J05149
36866	agccttatgactagtccgtttgata	AA007956	79470	tttcacccaggaaagcctcgccttg	AA097047	122074	tttccttcttctacagcgaggagaa	J05149
36867	ccttatgactagtccgtttgataca	AA007956	79471	ttcacccaggaaagcctcgccttgc	AA097047	122075	tcttctacagcgaggagaacaaggc	J05149
36868	tggatgaacctagcctatgatgaat	AA007956	79472	caggaaagcctcgccttgcccttca	AA097047	122076	acaaggctcctgagagtgaggagct	J05149
36869	gatgaacctagcctatgatgaatgt	AA007956	79473	ttgcccttcatcaacttctccctga	AA097047	122077	tggatcgttcctctcactgtcagag	J05149
36870	atgaacctagcctatgatgaatgtc	AA007956	79474	gcccttcatcaacttctccctgata	AA097047	122078	gttcctctcactgtcagagagaaga	J05149
36871	gaacctagcctatgatgaatgtcag	AA007956	79475	cccttcatcaacttctccctgataa	AA097047	122079	cctcactgagcatcaaacggaccta	J05149
36872	aacctagcctatgatgaatgtcagc	AA007956	79476	cttcatcaacttctccctgataatg	AA097047	122080	tgagcatcaaacggacctatgatga	J05149
36873	tgaatgtcagcagcgtttggtgcac	AA007956	79477	gagatctgtcactgtgtgaaggacg	U28789	122081	tcaaacggacctatgatgaacacat	J05149
36874	gaatgtcagcagcgtttggtgcacc	AA007956	79478	cttaattactaagtcatctgtatta	U28789	122082	tcccctatacccacatgaatggggg	J05149
36875	atgtcagcagcgtttggtgcaccaa	AA007956	79479	ttttacatcagagctttataacgaa	U28789	122083	ctgagcaaccttatcaaggcctgtc	J05149
36876	tgtcagcagcgtttggtgcaccaac	AA007956	79480	tacatcagagctttataacgaactt	U28789	122084	atcaaggcctgtctaatgaacaggt	J05149
36877	tcagcagcgtttggtgcaccaaccc	AA007956	79481	tttaattgcctggcaaatgctgata	U28789	122085	cccctgataactgtccagagagact	J05149
36878	cttatgactagtccgtttgatacag	AA007956	79482	aattgcctggcaaatgctgatatca	U28789	122086	acctgatgcgcatgtgctggcagtt	J05149
36879	tatgactagtccgtttgatacagga	AA007956	79483	ttgctgaactcattacagccccgtt	U28789	122087	tgcgcatgtgctggcagttcaaccc	J05149
36880	gactagtccgtttgatacaggagac	AA007956	79484	aactcattacagccccgttatgtca	U28789	122088	ggcagttcaaccccaagatgaggcc	J05149
36881	tagtccgtttgatacaggagacctt	AA007956	79485	tcattacagccccgttatgtcactt	U28789	122089	tgaggccaaccttcctggaaatcgt	J05149
36882	gatacaggagaccttctcatagatg	AA007956	79486	cagccccgttatgtcacttttgat	U28789	122090	tcaacctgctcaaggatgacctcca	J05149
36883	tacaggagaccttctcatagatggg	AA007956	79487	cgttatgtcacttttgattacaat	U28789	122091	ctgctcgatcgataggccttggact	M90087
36884	acaggagaccttctcatagatgggt	AA007956	79488	tatgtcacttttgattacaataaa	U28789	122092	taggccttggacttgtctcacacac	M90087
36885	aggagaccttctcatagatgggtgg	AA007956	79489	aattactaagtcatctgtattaaat	U28789	122093	tcagagcactacccctcagtgcttt	M90087
36886	gtaattgttcacatagccatcctgg	AA007957	79490	aagagattccagccttgtaaataat	U28789	122094	cactacccctcagtgctttggagtt	M90087
36887	taattgttcacatagccatcctggg	AA007957	79491	agattccagccttgtaaataatgaa	U28789	122095	cactgcaaaacataactggatcagg	M90087
36888	atggccgtcctcacagaaaactatg	AA007957	79492	ttccagccttgtaaataatgaatgg	U28789	122096	cagagctctgtacagggctgtgcaa	M90087
36889	tggccgtcctcacagaaaactatgg	AA007957	79493	atggaagaccctgtgctgcacttaa	U28789	122097	attggctaagactgctcaaagcctg	M90087
36890	ggccgtcctcacagaaaactatggg	AA007957	79494	gaagaccctgtgctgcacttaaaag	U28789	122098	taagactgctcaaagcctggtgcct	M90087
36891	gccgtcctcacagaaaactatgggg	AA007957	79495	cctgtgctgcacttaaaagtatttg	U28789	122099	tgctcaaagcctggtgcctatgtgc	M90087
36892	gtcctcacagaaaactatgggggca	AA007957	79496	aaagtatttgctgcttgattatttc	U28789	122100	aagcctggtgcctatgtgctgagat	M90087
36893	tcctcacagaaaactatgggggcaa	AA007957	79497	acgcagcttttctgcagcgtccgag	U68267	122101	cttgtctgtaacactcaggaaacgg	M90087
36894	aattgttcacatagccatcctgggg	AA007957	79498	cttttctgcagcgtccgagcatcac	U68267	122102	actcaggaaacggtcgacgagctcg	M90087
36895	attgttcacatagccatcctggggt	AA007957	79499	gccacacactaaagagcaacagagg	U68267	122103	ttgtctcacacactgactgcagtgt	M90087
36896	ttgttcacatagccatcctggggtc	AA007957	79500	cttggtcacataccaggacgcagaa	U68267	122104	cacacactgactgcagtgtccatcg	M90087
36897	tgttcacatagccatcctggggtcg	AA007957	79501	aggacactatccaccaagtcctgca	U68267	122105	ctgactgcagtgtccatcgtggctg	M90087
36898	aatgatggccgtcctcacagaaaac	AA007957	79502	ctatccaccaagtcctgcagacctg	U68267	122106	gcagtgtccatcgtggctggttgaa	M90087
36899	atgatggccgtcctcacagaaaact	AA007957	79503	accaagtcctgcagacctgaggatc	U68267	122107	ttcttcaaactgtggcactggggtc	M90087
36900	tgatggccgtcctcacagaaaacta	AA007957	79504	tcctgcagacctgaggatcaggacc	U68267	122108	ccactctgctggctaagtctaagaa	M90087
36901	gatggccgtcctcacagaaaactat	AA007957	79505	aatccccaagaccataggaacagcg	U68267	122109	tggacattttcttcttggcatgaga	M90087
36902	aactgtagccaactcacagttacaa	U43673	79506	ccatcagacgctgggtccagaccca	U68267	122110	ttttcttcttggcatgagacgggct	M90087
36903	tgtagccaactcacagttacaaagt	U43673	79507	cagagactggcaccctcttcagagt	U68267	122111	ttctgctgtcacatgttttggtgtg	W74850
36904	tcttgtgaccttgcaagtgcctgag	U43673	79508	ctggcaccctcttcagagttgtaca	U68267	122112	ctgctgtcacatgttttggtgtgag	W74850
36905	gaccttgcaagtgcctgagtgaagc	U43673	79509	tgcagcgtccgagcatcacctaagc	U68267	122113	tgcatgctccgctaccagaagtgtc	W74850
36906	aatttttgtaactcatgacttcatg	U43673	79510	gtccgagcatcacctaagcccaaga	U68267	122114	catgctccgctaccagaagtgtctg	W74850
36907	aactcatgacttcatgtgctatttg	U43673	79511	cctaagcccaagatcatctggatga	U68267	122115	tgctccgctaccagaagtgtctgga	W74850
36908	taaattcattcaacatctgctgtca	U43673	79512	gtctccgagcaaggggtctgcaccc	U68267	122116	ctccgctaccagaagtgtctggatg	W74850
36909	attcattcaacatctgctgtcacaa	U43673	79513	gtctacacttgcaaggccatcaacg	U68267	122117	aagtgtctggatgctcgctcccaga	W74850
36910	cattcaacatctgctgtcacaacag	U43673	79514	acttgcaaggccatcaacgtgctag	U68267	122118	ccctgcggagtcagttgcaagacgt	W74850
36911	tgtgaaaacctagcatcagaagaga	U43673	79515	gttaaagcttctgccacacactaaa	U68267	122119	ttgcaagacgtgtagggtggacagt	W74850
36912	tttgttcttctatcagccaagcttc	U43673	79516	gcttctgccacacactaaagagcaa	U68267	122120	tgttcagtcgctgtggggttccctc	W74850
36913	gccaagcttcgacacatgaagttta	U43673	79517	cctttgacagcatgattgtagacaa	U68564	122121	ttcagtcgctgtggggttccctcaa	W74850
36914	agccaactcacagttacaaagtagc	U43673	79518	acacaacaatgcagctggtatcccg	U68564	122122	caagcccaaacgtctgggatcccag	W74850
36915	gggtttcaccacagtgtgaagaact	U43673	79519	tgcataccccagatattggaggcca	U68564	122123	tgtcacatgttttggtgtgagccca	W74850
36916	tgagaaccgctggcctagagctgtc	U43673	79520	atattggaggccagggcaccacatc	U68564	122124	aacgtctgggatcccagaccccatg	W74850
36917	gaaccgctggcctagagctgtctgc	U43673	79521	ccatccaggacatcattcgtcatat	U68564	122125	tcacatgttttggtgtgagcccaat	W74850
36918	ccgctggcctagagctgtctgccca	U43673	79522	aggacatcattcgtcatatccgcat	U68564	122126	gtgtgagcccaatgctgccagtctc	W74850
36919	agctgtctgcccaaagcttcttgtg	U43673	79523	tcattcgtcatatccgcatcattaa	U68564	122127	aatgctgccagtctctcagaggctg	W74850
36920	cccaaagcttcttgtgaccttgcaa	U43673	79524	gtcatatccgcatcattaatggacg	U68564	122128	gccagtctctcagaggctgtgcagg	W74850
36921	aaagcttcttgtgaccttgcaagtg	U43673	79525	tttgctcagcttgtctgtaggactc	U68564	122129	cagtctctcagaggctgtgcaggct	W74850
36922	ccagctcgtctcggcaccatgagag	AA008053	79526	ctcttctcactttagcactccagct	U68564	122130	ctctcagaggctgtgcaggctgcat	W74850
36923	cgtctcggcaccatgagaggcgtca	AA008053	79527	tcactttagcactccagctagcttg	U68564	122131	tgcatgcatgctccgctaccagaag	W74850
36924	ctgccctaatcaacagacgtagcag	AA008053	79528	tagcactccagctagcttgggggac	U68564	122132	tattatcacctttccttgtctctcg	M11943

TABLE 1

SEQ ID NO	sequence	DBAxnID
36925	tcaacagacgtagcagccagcagtg	AA008053
36926	gtagcagccagcagtgtagggcgct	AA008053
36927	tctccgactgtcaacagcattatgg	AA008053
36928	ccgactgtcaacagcattatggccg	AA008053
36929	gtcaacagcattatggccgcatgct	AA008053
36930	agcattatggccgcatgctactcgc	AA008053
36931	tactcgcgccacgtccggtagctca	AA008053
36932	gtccggtagctcacagttaccactg	AA008053
36933	tagctcacagttaccactgtagctt	AA008053
36934	ctcggcaccatgagaggcgtcacca	AA008053
36935	acagttaccactgtagcttgtcgaa	AA008053
36936	gtcccggtgccagctcaactgctga	AA008053
36937	ccagctcaactgctgaccatcgaga	AA008053
36938	ctgaccatcgagagccggctgtgaa	AA008053
36939	accatcgagagccggctgtgaacgt	AA008053
36940	atcgagagccggctgtgaacgtgat	AA008053
36941	caggttctgccctaatcaacagacg	AA008053
36942	gttctgccctaatcaacagacgtag	AA008053
36943	cacatattgccaaggtgctgactta	AA008065
36944	catattgccaaggtgctgacttata	AA008065
36945	atgtacaagccttgcaagaacgtgg	AA008065
36946	gccttgcaagaacgtggtggagccg	AA008065
36947	agtgttcactgagtcctgacagtga	AA008065
36948	ttcactgagtcctgacagtgactgt	AA008065
36949	tagaactgctcaatggtgcttattt	AA008065
36950	gaactgctcaatggtgcttatttac	AA008065
36951	actgctcaatggtgcttatttaccc	AA008065
36952	atggtgcttatttacccgcggatga	AA008065
36953	ggtgcttatttacccgcggatgaga	AA008065
36954	tgcttatttacccgcggatgagatt	AA008065
36955	ttataagcatctgtgacagcaaatt	AA008065
36956	ttatttacccgcggatgagattatg	AA008065
36957	ataagcatctgtgacagcaaattat	AA008065
36958	atgatattgcgcggttcaacgaggt	AA008065
36959	gatattgcgcggttcaacgaggtcc	AA008065
36960	gcggttcaacgaggtcctagattga	AA008065
36961	gtactaaattgcgttgacggatgta	AA008065
36962	taaattgcgttgacggatgtacaag	AA008065
36963	ggatgtacaagccttgcaagaacgt	AA008065
36964	tgtaacctggccagtgtaatacttc	AA008066
36965	atacttcagctcctagcaatgaaag	AA008066
36966	ccttctccagatcacattgaggcgg	AA008066
36967	ccagatcacattgaggcggccattg	AA008066
36968	cacattgaggcggccattgcccagc	AA008066
36969	gccattgcccagctggacctgttag	AA008066
36970	gcccagctggacctgttaggtgctc	AA008066
36971	ctggacctgttaggtgctcttgaac	AA008066
36972	ctgttaggtgctcttgaacataagg	AA008066
36973	gatgaccagcttaccctgactccaa	AA008066
36974	atggcagcattccctttagagccca	AA008066
36975	gcattccctttagagcccagatttg	AA008066
36976	cagctcctagcaatgaaagtcccaa	AA008066
36977	ctcctgtcctccaaattccactgta	AA008066
36978	atgaaagtcccaaatgtgctcacct	AA008066
36979	gtcccaaatgtgctcacctttgact	AA008066
36980	aatgtgctcacctttgacttcatgt	AA008066
36981	ctcacctttgacttcatgtccaaac	AA008066
36982	tttgacttcatgtccaaaccttctc	AA008066
36983	ttcatgtccaaaccttctccagatc	AA008066
36984	tccaaaccttctccagatcacattg	AA008066
36985	tctcctacaactccgtacagctcta	AA008073
36986	acaactccgtacagctctatactca	AA008073
36987	gcaatcttgaacatcttctgactgt	AA008073
36988	atcttgaacatcttctgactgtttc	AA008073
36989	agatgctccgggatctgctctccat	AA008073
36990	tcggtcgctacgtcgttgtacacag	AA008073
36991	gtcgctacgtcgttgtacacagggg	AA008073
36992	gacgatgacagcggctgtggcgtct	AA008073
79529	caatgcagctggtatcccggcctca	U68564
79530	tgatgcctaatctctatggtaacat	U68564
79531	gtaacattgtcaacaacgtctgtgc	U68564
79532	ctggggccaactatggccatgtgta	U68564
79533	ccaactatggccatgtgtatgcagt	U68564
79534	tattcgagacagctacaaggaacac	U68564
79535	cgactgccacactgctagcaagctg	U68564
79536	ccatccgcaaagctgtcttagcatc	U68564
79537	agatgtcagtcctgaaactattttt	U69136
79538	tgtcagtcctgaaactatttttcag	U69136
79539	cttagaatctctcacagctgattgc	U69136
79540	agaatctctcacagctgattgcaac	U69136
79541	atctctcacagctgattgcaaccag	U69136
79542	cacagctgattgcaaccaggattat	U69136
79543	tgattgcaaccaggattatgattac	U69136
79544	tgatctgaactgaatcctatatgac	U69136
79545	ctgaatcctatatgacttcatcaac	U69136
79546	atatgacttcatcaacattagtaga	U69136
79547	tgacttcatcaacattagtagaaac	U69136
79548	cttcatcaacattagtagaaacagt	U69136
79549	cagtcctgaaactatttttcagata	U69136
79550	cacttatgcctatgaagggaatgat	U69136
79551	ttctgttgccaattctctcagctcc	U69136
79552	tgttgccaattctctcagctcctta	U69136
79553	tgccaattctctcagctccttagaa	U69136
79554	ttctctcagctccttagaatctctc	U69136
79555	tctcagctccttagaatctctcaca	U69136
79556	cagctccttagaatctctcacagct	U69136
79557	tgcagtcctgtagtgctgaagccct	U69137
79558	cctgtagtgctgaagccctgctcct	U69137
79559	agcctctaattctatccaaggagga	U69137
79560	gagacaacatcgtgagctataacga	U69137
79561	tgagaaaccctgcagctatcgagga	U69137
79562	agctccgccgagatataattcctga	U69137
79563	atttcattaacgagcgactcaaaga	U69137
79564	acgactcactggctacctacgccta	U69137
79565	tggccgaatctctgagctctttaga	U69137
79566	aatctctgagctctttagaatcagg	U69137
79567	aatcaggtaccactgaaggagacca	U69137
79568	aagattcttagcctggcgcctgtgt	U69137
79569	ggcctcacactggcgccttgatcgc	U69137
79570	ttagcctggcgcctgtgttataaaa	U69137
79571	acactggcgccttgatcgccattct	U69137
79572	tgatcgccattctcctctgcatcat	U69137
79573	tcctctgcatcattattctgctggt	U69137
79574	gcatcattattctgctggttatagt	U69137
79575	ttatagtagtcctctttgcagccct	U69137
79576	tagtcctctttgcagccctcaaaga	U69137
79577	tcaaagagcctctaattctatccaa	U69137
79578	tgttttcgagcgctttgctgcaagg	AA096968
79579	tttcgagcgctttgctgcaagggac	AA096968
79580	gtgccattccagaatgccgttttga	AA096968
79581	ccattccagaatgccgttttgaatg	AA096968
79582	ttccagaatgccgttttgaatgtaa	AA096968
79583	gacaatatccggaaatactggagcc	AA096968
79584	tactggagccgctactaccaaggat	AA096968
79585	tggagccgctactaccaaggatctc	AA096968
79586	agccgctactaccaaggatctcaag	AA096968
79587	cgctactaccaaggatctcaagggg	AA096968
79588	taccaaggatctcaaggggtcatat	AA096968
79589	gtattagacagtgcctcttcagagg	AA096968
79590	cctgcgcgccctgaatatgacttgg	AA096968
79591	ttagacagtgcctcttcagaggatg	AA096968
79592	gcgcgccctgaatatgacttggttt	AA096968
79593	tatgacttggtttgcataggtctca	AA096968
79594	gtttgcataggtctcacgggctccg	AA096968
79595	tgcataggtctcacgggctccggga	AA096968
79596	tccgggaaaaccagcctgctgtccg	AA096968
122133	gtcccttgagttctctaaccagcac	M11943
122134	actatttattgtgctgggttccagc	M11943
122135	gctgggttccagcctgggttgcaga	M11943
122136	ttccagcctgggttgcagagaccac	M11943
122137	ctgttctgctcgccagtccttttgt	M11943
122138	tgctcgccagtccttttgttatccg	M11943
122139	cttttacccagcttctcataggcgc	M11943
122140	ggatcagtatttccttccactgtag	M11943
122141	gtatttccttccactgtagctatta	M11943
122142	ccttccactgtagctattagtggct	M11943
122143	tagtatcttcctctgaggaataaaa	M11943
122144	tgagttctctaaccagcacctctgg	M11943
122145	ctctaaccagcacctctgggcttca	M11943
122146	ccagcacctctgggcttcaaggcct	M11943
122147	gctggacccagcagcaaaaccctac	M11943
122148	cattctccttgtctctgcctcggag	M11943
122149	ccttgtctctgcctcggagccattg	M11943
122150	ataatttgcaccgaaatgtggccgc	M11943
122151	cagagccacgcgttcggttatgtaa	M11943
122152	gtcatctggaaggccctgacccacc	X14951
122153	gagaaactcaagtcccaatggaaca	X14951
122154	tccgccattatatcaagtctgccag	X14951
122155	attatatcaagtctgccagggtttc	X14951
122156	acttgtcttccgacctgcacaatct	X14951
122157	acctgcacaatcttgccgcagagcc	X14951
122158	acaatcttgccgcagagccctaaga	X14951
122159	acattttcttgcataaaggaagaca	X14951
122160	agcagtctcagtaaaggtggcccca	X14951
122161	tatattgttaacatcccatctgttg	X14951
122162	atatccaacgtattatttcataatc	X14951
122163	ataataaagcttccatccatgctgt	X14951
122164	ctcaagtcccaatggaacaatgaca	X14951
122165	taataaagcttccatccatgctgtc	X14951
122166	ctcttcaagagtgctacgacaacgg	X14951
122167	aagagtgctacgacaacggtcatga	X14951
122168	gctacgacaacggtcatgaacccca	X14951
122169	gtcatgaaccccaagtttgctgaaa	X14951
122170	accccagtgctgccaaggatccaaa	X14951
122171	gctcggtttctttccgccattatat	X14951
122172	tttctttccgccattatatcaagtc	X14951
122173	gattttcttcgcacagtatatagtg	W97102
122174	ttttcttcgcacagtatatagtgtc	W97102
122175	gctaccaccagtgtgcaaccatcca	W97102
122176	taccaccagtgtgcaaccatccagc	W97102
122177	gtgtgcaaccatccagctggacttt	W97102
122178	gcaaccatccagctggactttcagt	W97102
122179	ccatccagctggactttcagttgcc	W97102
122180	atccagctggactttcagttgccca	W97102
122181	ccagctggactttcagttgcccatc	W97102
122182	agctggactttcagttgcccatcag	W97102
122183	ggactttcagttgcccatcaggttt	W97102
122184	tcagttgcccatcaggtttaacctt	W97102
122185	ttcttcgcacagtatatagtgtctt	W97102
122186	aaattgaatctttctactcgcccag	W97102
122187	attgaatctttctactcgcccagaa	W97102
122188	tctactcgcccagaaaaattccttg	W97102
122189	agccttctatgggccaaagattgac	W97102
122190	ccttctatgggccaaagattgacat	W97102
122191	tcggtcgctaccaccagtgtgcaac	W97102
122192	tcgctaccaccagtgtgcaaccatc	W97102
122193	tcttatgcctgatgttcctgtcata	D14011
122194	gcctgatgttcctgtcatacagcca	D14011
122195	caatactcagccaggctgagagcaa	D14011
122196	gcagtggctccctatttctcttcaa	D14011
122197	tcttcaagtcatgggccactggagc	D14011
122198	ctggagctccaagcactgccaaccg	D14011
122199	ctccaagcactgccaaccgtggtta	D14011
122200	gcactgccaaccgtggttattgtgt	D14011

TABLE 1

SEQ ID NO	sequence	DBAxnID
36993	ggcgtcttctgcactgacgtgcatc	AA008073
36994	gtcttctgcactgacgtgcatctga	AA008073
36995	ttctgcactgacgtgcatctgaacg	AA008073
36996	actgacgtgcatctgaacgatgata	AA008073
36997	actccgtacagctctatactcaact	AA008073
36998	ccgtacagctctatactcaactgcg	AA008073
36999	tctatactcaactgcgaggaggaag	AA008073
37000	atactcaactgcgaggaggaagaga	AA008073
37001	caccagccaacagagagcatgctac	AA008073
37002	cagccgcctgtgcccagtgtcgcaa	AA008073
37003	ccgcctgtgcccagtgtcgcaatct	AA008073
37004	gtgcccagtgtcgcaatcttgaaca	AA008073
37005	gactgaggccctggatgatgcaaaa	U40796
37006	aaggagaccttcaggcaatggtggg	U40796
37007	ctcagatgtgcctgacttagtgaga	U40796
37008	aggctgtgtgtccactagtagctcc	U40796
37009	tgtgtccactagtagctccagtgag	U40796
37010	cactagtagctccagtgaggatggt	U40796
37011	tagtagctccagtgaggatggtgag	U40796
37012	caaagccaagactgtcctagtgact	U40796
37013	gactgtcctagtgactgctagacct	U40796
37014	tgtcctagtgactgctagacctgta	U40796
37015	agtgactgctagacctgtatttggg	U40796
37016	tgctagacctgtatttgggaagaaa	U40796
37017	gagaccttcaggcaatggtgggttt	U40796
37018	ctactgctcagaatcaccccaggaa	U40796
37019	ctcagaatcaccccaggaatcttcc	U40796
37020	ggaatcttcctgtgaggatggagaa	U40796
37021	atcttcctgtgaggatggagaaggt	U40796
37022	aggttcatctgtgatgagtgcacga	U40796
37023	aatcggctgctcagatgtgcctgac	U40796
37024	ctgctcagatgtgcctgacttagtg	U40796
37025	cattcccttgacagcacaggaagaa	D13738
37026	gttactacacaagaggccgaacatt	D13738
37027	atgaacatctaaaaactttgctagg	D13738
37028	gtgtgacatttctgccatggagtta	D13738
37029	cccacatgtatcacatactgcatat	D13738
37030	tgtatcacatactgcatattcccac	D13738
37031	acatactgcatattcccacatgtat	D13738
37032	tgcatattcccacatgtatcacaca	D13738
37033	catgtatcacacatgtattgtaaaa	D13738
37034	atgtggtagccacctgctgcaatgg	D13738
37035	tagccacctgctgcaatggttcctc	D13738
37036	cctgctgcaatggttcctcttgtag	D13738
37037	tctgctcctcacctgcagaagccag	D13738
37038	cctcacctgcagaagccagtttgtt	D13738
37039	aagccagtttgtttggccatgtgac	D13738
37040	gtttgtttggccatgtgacaattgt	D13738
37041	caattgtcctgtgtttttatagcac	D13738
37042	gtttttatagcacccaaatcattct	D13738
37043	atagcacccaaatcattctaaaata	D13738
37044	cccaaatcattctaaaatatgaaca	D13738
37045	aaagggactccattcacgccactgc	U20372
37046	gcaatcagagctcaacatggcggca	U20372
37047	cttctcattctttgcccttgcatct	U20372
37048	cctccatggctcctgcaagataggg	U20372
37049	ggcttcctgactcatagcagccact	U20372
37050	ctgactcatagcagccacttcagtt	U20372
37051	agccacttcagttagggttagatga	U20372
37052	tggctacccttgccttatggctcta	U20372
37053	tgacctacagagcatgctccattaa	U20372
37054	acagagcatgctccattaagaaccc	U20372
37055	acctcattgtcatctccaataaaac	U20372
37056	ttgtcatctccaataaaacaccacg	U20372
37057	agagctcaacatggcggcacttctg	U20372
37058	ctccaataaaacaccacgcacagtc	U20372
37059	caacatggcggcacttctgtcccat	U20372
37060	ggcacttacacctaagacaggagca	U20372
79597	gggaaaaccagcctgctgtccgagc	AA096968
79598	aaggcagtgccattccagaatgccg	AA096968
79599	agactactacagtcacctgaagaag	D87744
79600	ctacagtcacctgaagaaggagagt	D87744
79601	tcttctcctctatgccgaatccttg	D87744
79602	tctcctctatgccgaatccttggtg	D87744
79603	cctctatgccgaatccttggtggcc	D87744
79604	tgccgaatccttggtggccactgcc	D87744
79605	cgaatccttggtggccactgcccct	D87744
79606	tcatctgttagatgtggctgttttg	D87744
79607	agatgtggctgttttgcgtagcatt	D87744
79608	tgttttgcgtagcattgtgtgctgc	D87744
79609	tttgcgtagcattgtgtgctgcccc	D87744
79610	atatctatatgatgctctttaaaaa	D87744
79611	gagctgcgatccagacagcacccac	D87744
79612	ctgctccttcatccagaccttggag	D87744
79613	ctccttcatccagaccttggaggac	D87744
79614	ctgcccgcttgcagagctcctgcag	D87744
79615	aaagtgcacagtatcttggaccagg	D87744
79616	cacagtatcttggaccaggtccctc	D87744
79617	atcccctgcttttcttctcctctat	D87744
79618	tgcttttcttctcctctatgccgaa	D87744
79619	gagaattcctggccaagcagttacc	AA096948
79620	agaattcctggccaagcagttacct	AA096948
79621	ctgccctgcctgtgtggccatccgg	AA096948
79622	ccctgcctgtgtggccatccgggat	AA096948
79623	cctgtgtggccatccgggatctcaa	AA096948
79624	ctgtgtggccatccgggatctcaac	AA096948
79625	tgtggccatccgggatctcaacatt	AA096948
79626	tggccatccgggatctcaacattag	AA096948
79627	ggccatccgggatctcaacattagg	AA096948
79628	ccatccgggatctcaacattaggga	AA096948
79629	catccgggatctcaacattagggag	AA096948
79630	tccgggatctcaacattagggagaa	AA096948
79631	aattcctggccaagcagttacctgg	AA096948
79632	attcctggccaagcagttacctggc	AA096948
79633	tcctggccaagcagttacctggcgc	AA096948
79634	cctggccaagcagttacctggcgcg	AA096948
79635	tggccaagcagttacctggcgcggc	AA096948
79636	ggccaagcagttacctggcgcggct	AA096948
79637	ctgcattggtccaaacattgaattt	AA096948
79638	tgcattggtccaaacattgaattta	AA096948
79639	gggtatccaagctgcagagagacct	AA096890
79640	agctgcagagagacctctcagagat	AA096890
79641	cagcttctgctatgagagctaaaag	AA096890
79642	tgaatgtccacgactacacaacctt	AA096890
79643	atcaggcaatccagttatcccagag	AA096890
79644	caatccagttatcccagagcatgaa	AA096890
79645	tccagttatcccagagcatgaatca	AA096890
79646	agttatcccagagcatgaatcaccg	AA096890
79647	gcatgaatcaccgaatttcagaact	AA096890
79648	atcaccgaatttcagaactgtccac	AA096890
79649	gaatttcagaactgtccactcactt	AA096890
79650	cagaactgtccactcactttaaagt	AA096890
79651	acctctcagagatgcatctgtcttt	AA096890
79652	agatgcatctgtctttgactccgca	AA096890
79653	ctttgactccgcaatggtcctcctg	AA096890
79654	tgactccgcaatggtcctcctggac	AA096890
79655	ggtcctcctggacagtactcttgct	AA096890
79656	ggacagtactcttgctgctagtgtc	AA096890
79657	tactcttgctgctagtgtccaacct	AA096890
79658	ccaacctgcttctgtgggagaacac	AA096890
79659	tataatgcaactcagtccaagtacc	D29743
79660	cagtccaagtaccgggaccgctgca	D29743
79661	tttgtggacatggccatgctcgtag	D29743
79662	gacatggccatgctcgtagagagcc	D29743
79663	atgatcgaccgaattgagtacaacg	D29743
79664	tccgtggactacgtggaacgagccg	D29743
122201	ccaaccgtggttattgtgtatcgct	D14011
122202	gtgaggcacagtactcctttgtctg	D14011
122203	tcagagcctaaagtcacctgaagaa	D14011
122204	cctaaagtcacctgaagaacagatg	D14011
122205	tgtcatacagccaaggccaggtagc	D14011
122206	ctgaagaagacttccccttggctga	D14011
122207	accttccttctgccaaaatcaactg	D14011
122208	cttctgccaaaatcaactgcccaga	D14011
122209	tcaactgcccagagggtgccaacgc	D14011
122210	gttcctactgttattatctaattga	D14011
122211	atgcaggtcacctggtgtcaatact	D14011
122212	gtcacctggtgtcaatactcagcca	D14011
122213	gcaatttcccagaaatgaaaggtca	L32974
122214	agcagatcttaacctccagtagcaa	L32974
122215	gcatgagccttcctgccaaggattg	L32974
122216	gctgacaaactgctcttgattgttt	L32974
122217	aggaactgctttctctccctgactc	L32974
122218	cctctgctcatcctagccatacaat	L32974
122219	ctcatcctagccatacaattttcca	L32974
122220	ttttccagtcagcaaacctcattac	L32974
122221	agtcagcaaacctcattactaatca	L32974
122222	caaacctcattactaatcatgtagg	L32974
122223	tcattactaatcatgtagggaatgg	L32974
122224	aaagcagacagagcacctttgatc	L32974
122225	tcttaacctccagtagcaaattgtg	L32974
122226	ttcttggcagttgcagggataaagg	L32974
122227	gcaacgcactttggggcacaggcag	L32974
122228	cactttggggcacaggcaggctttt	L32974
122229	ggcttttcctggcaccatgaacctg	L32974
122230	caccatgaacctgaggacaaccgga	L32974
122231	acagacagtctctcagctctgtact	L32974
122232	agtctctcagctctgtactgtgaga	L32974
122233	ataagccagaactgtacctgagaaa	L28819
122234	aggagtcacctgacccagagttgtc	L28819
122235	aacagcagctagattactcacatct	L28819
122236	agctagattactcacatctagaaca	L28819
122237	tagattactcacatctagaacagga	L28819
122238	attactcacatctagaacaggagaa	L28819
122239	aggagctctcagaccagccactgga	L28819
122240	tctcagaccagccactggatcaagc	L28819
122241	cagaccagccactggatcaagcact	L28819
122242	accagccactggatcaagcactagt	L28819
122243	cactggatcaagcactagtaaagaa	L28819
122244	agaaccggacacagcaggagaagta	L28819
122245	cagagttgtccctgggaaaacagca	L28819
122246	gaaccggacacagcaggagaagtag	L28819
122247	agttgtccctgggaaaacagcagca	L28819
122248	agccagaattacacctaggaaagca	L28819
122249	aattacacctaggaaagcagcagca	L28819
122250	gaaagcagcagcagcaacagatagа	L28819
122251	agcagcagcagcaacagatagagcg	L28819
122252	gaccaaaaagcctgggtcagtcact	L28819
122253	aaagcctgggtcagtcacttaagca	L28819
122254	acatgtacagccattatacagccta	U14648
122255	acagccattatacagcctaaagctg	U14648
122256	acaattctaatctcttctcttatgt	U14648
122257	tttggcactacgcagttgtgtagca	U14648
122258	actacgcagttgtgtagcagttgag	U14648
122259	ttttctcctgattgctcctgtggta	U14648
122260	cctgattgctcctgtggtaaagatg	U14648
122261	agtcacccgggccttgcatataaat	U14648
122262	cagtgagcacatctagctgatgata	U14648
122263	ctagttccctgatcaaaaaatgcaa	U14648
122264	taaatctgatcatccttgtgttgtg	U14648
122265	tgatcatccttgtgttgtgaacttt	U14648
122266	attatacagcctaaagctgtcagca	U14648
122267	gatcatccttgtgttgtgaacttttt	U14648
122268	cagcctaaagctgtcagcagaatga	U14648

TABLE 1

SEQ ID NO	sequence	DBAxnID
37061	gactcacagctgtagctctgctaga	U20372
37062	tagctctgctagaaaacgggggact	U20372
37063	tcaaccaaaccgggaggcttagcat	U20372
37064	ttagcatctggtgagactggggaac	U20372
37065	catattcaagccaagagccagcctg	U20372
37066	gacagtgccattatgacggggtcct	AA008133
37067	gccattatgacggggtcctacaaca	AA008133
37068	ctgaagccccggaaagtatgtacag	AA008133
37069	attagcgtggacagtttggacttca	AA008133
37070	acacagcctggcaccccatggagag	AA008133
37071	acagcctggcaccccatggagagca	AA008133
37072	cctggcaccccatggagagcattat	AA008133
37073	tggcaccccatggagagcattattg	AA008133
37074	attattgctgtagctgccaccaata	AA008133
37075	ttgctgtagctgccaccaataactt	AA008133
37076	gctgccaccaataacttgtatatat	AA008133
37077	ccaccaataacttgtatatattcca	AA008133
37078	gaaacactcggagggatgttacact	AA008133
37079	ttacactggaagcctcaagagagaa	AA008133
37080	acactggaagcctcaagagagaaca	AA008133
37081	gagagaacagcaaaccccgagccag	AA008133
37082	gagaacagcaaaccccgagccagcc	AA008133
37083	acagcaaaccccgagccagcctgaa	AA008133
37084	gagccagcctgaagccccggaaagt	AA008133
37085	gccagcctgaagccccggaaagtat	AA008133
37086	tgaccttccaggctttctcttattt	X62742
37087	cctttgacctttactcctgcactgt	X62742
37088	cccagagaccgtgctcaggtgactg	X62742
37089	gaccgtgctcaggtgactgattctt	X62742
37090	agtccagcggggatgtccaggcatc	X62742
37091	atgtccaggcatctcgtgactaccc	X62742
37092	ctcgtgactacccaaggtctctcat	X62742
37093	actacccaaggtctctcatcggagc	X62742
37094	caaggtctctcatcggagccgaagt	X62742
37095	ccgctgtccctggacttgcatccag	X62742
37096	tccctggacttgcatccagaagagc	X62742
37097	gacttgcatccagaagagccttcat	X62742
37098	acctttactcctgcactgtgacaca	X62742
37099	ccctgccttcggatctcctagagaa	X62742
37100	cttcggatctcctagagaatgccct	X62742
37101	atctcctagagaatgccctgtgtgg	X62742
37102	tagagaatgccctgtgtggtgtggc	X62742
37103	cctttgccctcggtgtgctaggcac	X62742
37104	taggcaccatcataggcattgtctt	X62742
37105	tctgctcccagagaccgtgctcagg	X62742
37106	ttgacgacttctggagtacagctct	AA007947
37107	acgacttctggagtacagctctaca	AA007947
37108	gtcaagaccacgcgctttgcctcct	AA007947
37109	tcaagaccacgcgctttgcctcctt	AA007947
37110	ttccccgactacctggtcatccaga	AA007947
37111	cccgactacctggtcatccagatca	AA007947
37112	ccgactacctggtcatccagatcaa	AA007947
37113	cgactacctggtcatccagatcaag	AA007947
37114	actacctggtcatccagatcaagaa	AA007947
37115	ctacctggtcatccagatcaagaag	AA007947
37116	tacctggtcatccagatcaagaagt	AA007947
37117	gtcatccagatcaagaagttcacct	AA007947
37118	gacttctggagtacagctctacagg	AA007947
37119	gagtacagctctacaggcgaagtcg	AA007947
37120	acaggcgaagtcggtcgctgtcaag	AA007947
37121	aagtcggtcgctgtcaagaccacgc	AA007947
37122	tcggtcgctgtcaagaccacgcgct	AA007947
37123	cggtcgctgtcaagaccacgcgctt	AA007947
37124	cgctgtcaagaccacgcgctttgcc	AA007947
37125	gctgtcaagaccacgcgctttgcct	AA007947
37126	attcagactcctgaggagttccttc	X62743
37127	ttcagactcctgaggagttccttca	X62743
37128	tgttttctgaggtgagctgaaatga	X62743

SEQ ID NO	sequence	DBAxnID
79665	cgagccgtgtctgacaccaagaaag	D29743
79666	gtgtctgacaccaagaaagctgtga	D29743
79667	tctgacaccaagaaagctgtgaagt	D29743
79668	attatgatcatcatttgctgtgtgg	D29743
79669	atcatcatttgctgtgtggtgctgg	D29743
79670	gtggtcttggcgtcatccattgggg	D29743
79671	cgctgcaaggaccgaatccagaggc	D29743
79672	actggcaggactactaccaatgaag	D29743
79673	aggactactaccaatgaagaactag	D29743
79674	aagctggccatcttcactgatgata	D29743
79675	ctggccatcttcactgatgatatca	D29743
79676	atcttcactgatgatatcaaaatgg	D29743
79677	aaactggaaaccagcattcgagagc	D29743
79678	attcgagagctgcacgacatgtttg	D29743
79679	tccattgcatcgtcccaaggaggaa	L28118
79680	cattgcatcgtcccaaggaggaagg	L28118
79681	gtcactcgtttcattcaaggccttc	L28118
79682	cagctgcactctatggctaggtgca	L28118
79683	cactctatggctaggtgcagtgtct	L28118
79684	cccggtgcctttctagccatctact	L28118
79685	cggtgcctttctagccatctactgt	L28118
79686	tttaaaacatgctacaatcatgctg	L28118
79687	ttaaaacatgctacaatcatgctga	L28118
79688	acatgctacaatcatgctgaaaata	L28118
79689	catgctacaatcatgctgaaaatag	L28118
79690	tgctacaatcatgctgaaaatagta	L28118
79691	attgcatcgtcccaaggaggaaggc	L28118
79692	tgcatcgtcccaaggaggaaggcaa	L28118
79693	tcgtcccaaggaggaaggcaaagcg	L28118
79694	ggcctgcagggtcactcgtttcatt	L28118
79695	gcctgcagggtcactcgtttcattc	L28118
79696	tgcagggtcactcgtttcattcaag	L28118
79697	cagggtcactcgtttcattcaaggc	L28118
79698	ggtcactcgtttcattcaaggcctt	L28118
79699	gattgtctctggcctgtatgagctt	U59490
79700	tgagctttttcccgaaaatgagcag	U59490
79701	gatggattcactcgtgcgtgatgcc	U59490
79702	ttcactcgtgcgtgatgccggattt	U59490
79703	cgtgcgtgatgccggatttgataaa	U59490
79704	tgataaatgcacacaacggattgat	U59490
79705	taactgaacgtcggaacgtattgct	U59490
79706	tattgctacaaggcgctggctggtt	U59490
79707	gcgctggctggttattgttgctggc	U59490
79708	tcttcacctatggatctcttaatca	U59490
79709	gatctcttaatcagttcaccgcggt	U59490
79710	ttaatcagttcaccgcggttcagga	U59490
79711	aaactcactcgcaggtcttgccaat	U59490
79712	tcaggaccttaacagccatgatatc	U59490
79713	actcgcaggtcttgccaatgccatc	U59490
79714	aggtcttgccaatgccatcgaaccg	U59490
79715	tgccaatgccatcgaaccgggcggc	U59490
79716	cgaaccgggcggcattctcatctac	U59490
79717	cattctcatctacaccgggcagccg	U59490
79718	catctacaccgggcagccgtggcac	U59490
79719	ccctcaactggagatgattgccggg	U59490
79720	ctccagatgccttaaactatgcaca	U68171
79721	taaactatgcacaaagctaagtgac	U68171
79722	ggctctgggcacactcgtttaaaca	U68171
79723	ctgccgcttcaccttctgattgaca	U68171
79724	cttcaccttctgattgacaaataaa	U68171
79725	tctttgctcattggttaacctttgc	U68171
79726	ttgctcattggttaacctttgcact	U68171
79727	ctcattggttaacctttgcactcta	U68171
79728	tctaccttaccactcagtcctgttg	U68171
79729	ccactcagtcctgttggaagtgaca	U68171
79730	ctcagtcctgttggaagtgacatgc	U68171
79731	ttcagtcctgggtattttgaagtct	U68171
79732	actatgcacaaagctaagtgaccaa	U68171

SEQ ID NO	sequence	DBAxnID
122269	agaatgactcaacattgccttcact	U14648
122270	actcaacattgccttcacttcttaa	U14648
122271	gttatttaccttcaggtctatatga	U14648
122272	taccttcaggtctatatgataatct	U14648
122273	tgtttacccaacacaattctaatct	U14648
122274	cccaacacaattctaatctcttctc	U14648
122275	cacctgcgggaacgatcgtcggcaa	AA119191
122276	tgggtctgctgcaggccgagtacac	AA119191
122277	tagcacacgtggacctgattgagaa	AA119191
122278	tgaactatgcacccctagagaagtg	AA119191
122279	actatgcacccctagagaagtgacc	AA119191
122280	atgcacccctagagaagtgaccgct	AA119191
122281	agaagtgaccgctggagcctgcact	AA119191
122282	gtctcctgctggccacgggcagcct	AA119191
122283	cgggcagcctgtcgtgctatgttca	AA119191
122284	gcagcctgtcgtgctatgttcaaac	AA119191
122285	ttcaaactgagctattggggatgtt	AA119191
122286	aaactgagctattggggatgttggt	AA119191
122287	atgccctggacgctctgggcctaaa	AA119191
122288	ccctggacgctctgggcctaaagcg	AA119191
122289	acgctctgggcctaaagcgctactg	AA119191
122290	ctctgggcctaaagcgctactgctg	AA119191
122291	tgggcctaaagcgctactgctgccg	AA119191
122292	taaagcgctactgctgccgccgcat	AA119191
122293	tgctgctagcacacgtggacctgat	AA119191
122294	tgctagcacacgtggacctgattga	AA119191
122295	agcaaatgcacagatcggagatgac	AA106347
122296	aaatgcacagatcggagatgactcc	AA106347
122297	ctggagaaccccagtgtggagacac	AA106347
122298	gagaaccccagtgtggagacactcc	AA106347
122299	aaccccagtgtggagacactcccag	AA106347
122300	gagacactcccagagtcaacgttcg	AA106347
122301	acactcccagagtcaacgttcgagc	AA106347
122302	gagtcaacgttcgagcctgtgccca	AA106347
122303	tcaacgttcgagcctgtgcccattc	AA106347
122304	acgttcgagcctgtgcccattcagg	AA106347
122305	cctgtgcccattcaggccaagacct	AA106347
122306	gagaagaccctgcatgatcaactcg	AA106347
122307	caggcctgaagcaccatcttctgca	AA106347
122308	tgaagcaccatcttctgcatcttga	AA106347
122309	agcaccatcttctgcatcttgacct	AA106347
122310	ttccatctcctttaccacaacaaga	AA106347
122311	ctcctttaccacaacaagagcacct	AA106347
122312	ctttaccacaacaagagcacctgcg	AA106347
122313	aagagcacctgcgcccagctggaga	AA106347
122314	cagctggagaaccccagtgtggaga	AA106347
122315	cctctcctcaaaggcaaggctctac	J03168
122316	gagtttcttcaccgctgtcccattt	J03168
122317	tactctaattctaaccagagcaagc	J03168
122318	tctaattctaaccagagcaagcttt	J03168
122319	taagattccttttcctgttcatcag	J03168
122320	tcctttttcctgttcatcagcagttg	J03168
122321	ttttcctgttcatcagcagttgtta	J03168
122322	tcctgttcatcagcagttgttatta	J03168
122323	gttattacatcccttgtggcacatt	J03168
122324	aaacttttatgagctcatgtagcaa	J03168
122325	gtagcaatcaaattatcctgtggat	J03168
122326	gcaatcaaattatcctgtggattga	J03168
122327	cgctgtcccattttaagactgcttg	J03168
122328	tgtcccattttaagactgcttgaat	J03168
122329	atctttctaatctgctatgcttgaa	J03168
122330	tttctaatctgctatgcttgaatgg	J03168
122331	atctgctatgcttgaatggcacgcg	J03168
122332	tatgcttgaatggcacgcggtacaa	J03168
122333	tgaatggcacgcggtacaaaggaaa	J03168
122334	attatgcaaattcccagatctgaag	J03168
122335	cgatcatctacctagacctcatcac	W34087
122336	acctagacctcatcacccatgagga	W34087

TABLE 1

SEQ ID NO	sequence	DBAxnID
37129	ccttgtcacgagggcaccgtgtctt	X62743
37130	cttgtcacgagggcaccgtgtctta	X62743
37131	tgtcacgagggcaccgtgtcttagg	X62743
37132	gtcacgagggcaccgtgtcttaggt	X62743
37133	cacgagggcaccgtgtcttaggtga	X62743
37134	acgagggcaccgtgtcttaggtgat	X62743
37135	agggcaccgtgtcttaggtgatcac	X62743
37136	ggcaccgtgtcttaggtgatcacta	X62743
37137	gcaccgtgtcttaggtgatcactaa	X62743
37138	agactcctgaggagttccttcatgc	X62743
37139	actcctgaggagttccttcatgccc	X62743
37140	ctcctgaggagttccttcatgcccc	X62743
37141	tataatgaagtctgtcccaggtgtt	X62743
37142	taatgaagtctgtcccaggtgtttt	X62743
37143	gaagtctgtcccaggtgttttctga	X62743
37144	tcccaggtgttttctgaggtgagct	X62743
37145	gtgttttctgaggtgagctgaaatg	X62743
37146	aatggctccagagtcaccaggactc	AA008228
37147	agtaccagcagcagcacagcgtcat	AA008228
37148	tgcagcagttacaggccttgggcat	AA008228
37149	agcagttacaggccttgggcatcct	AA008228
37150	aggccttgggcatcctccaaaagag	AA008228
37151	ccttgggcatcctccaaaagagctg	AA008228
37152	tgggcatcctccaaaagagctggct	AA008228
37153	gcctcctggcctcaactttgacctg	AA008228
37154	tcctggcctcaactttgacctggat	AA008228
37155	cctcaactttgacctggatgctctc	AA008228
37156	caactttgacctggatgctctcaat	AA008228
37157	ctttgacctggatgctctcaatctg	AA008228
37158	agcagcacagcgtcatggtcaaaat	AA008228
37159	cctggatgctctcaatctgtcgggc	AA008228
37160	agcacagcgtcatggtcaaaatctg	AA008228
37161	ctcagagggctcgctttgaggccat	AA008228
37162	gggctcgctttgaggccatgctaga	AA008228
37163	gctttgaggccatgctagatctcat	AA008228
37164	aggccatgctagatctcatgcagca	AA008228
37165	tagatctcatgcagcagttacaggc	AA008228
37166	atctcatgcagcagttacaggcctt	AA008228
37167	gaagacggctcagcccaatggagac	
37168	ggctcagcccaatggagactggaca	
37169	atggcgcaagtctcattcttccagc	
37170	atccacctacccagaaggacggcat	
37171	ggagattcagactcctgaggattac	
37172	tcagactcctgaggattacttcatg	
37173	ggattacttcatgcccccaacatct	
37174	ttcaggacaccccattttcttgtgt	
37175	acaccccatttttcttgtgtcatact	
37176	cttgtgtcatactgcttctattcag	
37177	tcatactgcttctattcagttcccc	
37178	tgcttctattcagttcccctccca	
37179	ataccagacagtctcctacctagcc	
37180	ctgcgtggttcagcacagcgggacc	
37181	ggttcagcacagcgggacctctgag	
37182	gcccatccgcggggactggacacct	
37183	gtcccccatccagacagtgaaggtc	
37184	cttcatcatcttctgtgttggcttc	
37185	catcttctgtgttggcttcttcaga	
37186	tggcttcttcagatggcgcaagtct	
37187	gattcagactcctgaggattacttc	
37188	attcagactcctgaggattacttca	
37189	ttcagactcctgaggattacttcat	
37190	tcagactcctgaggattacttcatg	
37191	cagactcctgaggattacttcatgc	
37192	agactcctgaggattacttcatgcc	
37193	gactcctgaggattacttcatgccc	
37194	ctcctgaggattacttcatgccccc	
37195	gattcagactcctgaggattacttc	
37196	attcagactcctgaggattacttca	

SEQ ID NO	sequence	DBAxnID
79733	tgaccaaacttctcattttgatttg	U68171
79734	ccctttggcgacctttgatgtgca	U68171
79735	tttggcgacctttgatgtgcagta	U68171
79736	gacctttgatgtgcagtagatcgt	U68171
79737	gttttcagtggtcttatgtagagca	U68171
79738	attatgtttacagtttgttgcaaca	U68171
79739	tttacagtttgttgcaacagccatc	U68171
79740	tactttctaagtgccatgtttagga	D86344
79741	tttctaagtgccatgtttaggacct	D86344
79742	cgttcatgtatgactgccgctcctt	D86344
79743	gccgctcctttctttcaaggacagt	D86344
79744	gctcctttctttcaaggacagtgtt	D86344
79745	gtcaagctactaaaccccatgttgg	D86344
79746	aagctactaaaccccatgttggctg	D86344
79747	ctactaaaccccatgttggctgctg	D86344
79748	ctaaaccccatgttggctgctgctg	D86344
79749	ttttcatctttccagggaatatatt	D86344
79750	tctttccagggaatatattgattgg	D86344
79751	gaacatctatttttctacaaaactg	D86344
79752	agtgccatgtttaggacctgatcat	D86344
79753	tttaggacctgatcattccaagttt	D86344
79754	aggacctgatcattccaagtttcac	D86344
79755	acctgatcattccaagtttcacgtt	D86344
79756	tcattccaagtttcacgttcatgta	D86344
79757	ttccaagtttcacgttcatgtatga	D86344
79758	caagtttcacgttcatgtatgactg	D86344
79759	gtttcacgttcatgtatgactgccg	D86344
79760	tgtggccatcttgatctacctgctg	Y08026
79761	catcttgatctacctgctgttctac	Y08026
79762	tgcacctgacttcctcatacacctg	Y08026
79763	tgacttcctcatacacctgaatata	Y08026
79764	cctcatacacctgaatataagccac	Y08026
79765	aagccacaaacatcatgagagctgc	Y08026
79766	tcatgagagctgcacaggtgcacca	Y08026
79767	gagctgcacaggtgcaccaggatac	Y08026
79768	tgcaccaggatactggtgaatccat	Y08026
79769	tatgcccctgctgccctgattagct	Y08026
79770	cctgctgccctgattagctgaagct	Y08026
79771	gccctgattagctgaagctgcgtgc	Y08026
79772	gatctacctgctgttctacagaaag	Y08026
79773	cctgctgttctacagaaagggcttt	Y08026
79774	ggcatcaacttttgctaaggttctgt	Y08026
79775	aactttgctaaggttctgttgtgtg	Y08026
79776	cagtaccaaaggcaccagggactgc	Y08026
79777	caccagggactgcagctaagtctta	Y08026
79778	cagctaagtcttatggcttgcacct	Y08026
79779	agtcttatggcttgcacctgacttc	Y08026
79780	catgctggctgcagcagcctcaacg	AA097875
79781	ggctgcagcagcctcaacgtgagct	AA097875
79782	tccgcatcggccaagacaggctcct	AA097875
79783	tcggccaagacaggctcctgccta	AA097875
79784	gccaagacaggctcctgccctacat	AA097875
79785	aagacaggctcctgccctacatcct	AA097875
79786	acatcctgtgcacagctgctgctcc	AA097875
79787	tcctgtgcacagctgctgctcccgt	AA097875
79788	tgtgcacagctgctgctcccgtcca	AA097875
79789	atctcctttgtggcactcattgcct	AA097875
79790	cccctctacatgatggtcctacgtg	AA097875
79791	atggtcctacgtgtggtgaaccagg	AA097875
79792	agcagcctcaacgtgagctcagcag	AA097875
79793	gtgagctcagcagcttctaagcaac	AA097875
79794	aagcaaccaatctatttgaactgta	AA097875
79795	caaccaatctatttgaactgtagct	AA097875
79796	ccaatctatttgaactgtagctgtg	AA097875
79797	tatttgaactgtagctgtgtgactg	AA097875
79798	aactgtagctgtgtgactggaggat	AA097875
79799	ggatccgcatcggccaagacaggct	AA097875
79800	cagatatcccaggagagtccatagt	AA097809

SEQ ID NO	sequence	DBAxnID
122337	gcccgatgctcagtagagcagacga	W34087
122338	gagcagacgatcccatcgatgactc	W34087
122339	atgactcgctcatctgtcgccatgc	W34087
122340	acacactagtcacccttgtacagat	W34087
122341	tagtcacccttgtacagattgtcgt	W34087
122342	cccttgtacagattgtcgtgaatca	W34087
122343	tcgtgaatcatcacattatcacaca	W34087
122344	tgaatcatcacattatcacacacca	W34087
122345	atcacattatcacacaccagcttcg	W34087
122346	acattatcacacaccagcttcgaca	W34087
122347	tcacccatgaggagccgttccccga	W34087
122348	cgttccccgacatctacgatatgcg	W34087
122349	acatctacgatatgcgggacatctc	W34087
122350	gggacatctcagactggctgtgcct	W34087
122351	acatctcagactggctgtgcctgga	W34087
122352	gcctggacctgaagagcccgatgct	W34087
122353	tggacctgaagagcccgatgctcag	W34087
122354	agagcccgatgctcagtagagcaga	W34087
122355	ggctggccctgaggggaatagacca	M21065
122356	agagcatagcactggccctagagct	M21065
122357	ttctctgtggactttgccacatttc	M21065
122358	gtggactttgccacatttctgatca	M21065
122359	tttgccacatttctgatcagaggtg	M21065
122360	gtacactaacatttctccccagtct	M21065
122361	ttctccccagtctaggcctttgcat	M21065
122362	ccagtctaggcctttgcatttattt	M21065
122363	ggcagtcctcagcaggcccagggaa	M21065
122364	ccttggcgtgactcttgactatcta	M21065
122365	aacgccacctaactgctaaatggtg	M21065
122366	tcatgtggtggacctgtgtaaatat	M21065
122367	tagcactggccctagagctggctct	M21065
122368	tagagctggctctgtactaggagac	M21065
122369	tggctctgtactaggagacaattgc	M21065
122370	atgagtcctattcccaaagaactgc	M21065
122371	cctattcccaaagaactgctgccct	M21065
122372	tcccaagccagtgaaatgtgaaggg	M21065
122373	gttggctcccttagcctcagaggga	M21065
122374	ctccagctgtggggctcaggaaaaa	M21065
122375	atgtagctttcattacagcacattt	X69722
122376	gatgatccttgttttcaggttctaa	X69722
122377	agcaatcccttcaagtcaaaagctc	X69722
122378	cccttcaagtcaaaagctctcctcg	X69722
122379	ttcaagtcaaaagctctcctcggaa	X69722
122380	tcaaaagctctcctcggaatgaaga	X69722
122381	aaagctctcctcggaatgaagaatg	X69722
122382	aaatgtctttctgttcataatacta	X69722
122383	tgtctttctgttcataatactagac	X69722
122384	ctttctgttcataatactagacact	X69722
122385	gttcataatactagacactgttgga	X69722
122386	cataatactagacactgttggaccc	X69722
122387	cttgctgatattgtctcttgtaata	X69722
122388	atattgagctgagttccttttaaga	X69722
122389	tattctactggggtgttttcaagtg	X69722
122390	gtgttttcaagtgtcggcttagaat	X69722
122391	ttttcaagtgtcggcttagaatttg	X69722
122392	agacttccattgtaaatactgtaga	X69722
122393	gacatgagcaatcccttcaagtcaa	X69722
122394	atgagcaatcccttcaagtcaaaag	X69722
122395	accacctatggggtcttgctgctgc	X55184
122396	gtcttgctgctgcctgtcatggctt	X55184
122397	gcaagcccgctctgatcaacggagg	X55184
122398	ccgctctgatcaacggaggactatc	X55184
122399	acagaattcactcactcactccggt	X55184
122400	cactcactccggtcagaacttacca	X55184
122401	cgttgattgccttacgattcagcca	X55184
122402	ttgccttacgattcagccaaatggt	X55184
122403	tcagccaaatggttctgtaagatac	X55184
122404	ttctgtaagatacacctcttcctca	X55184

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37197	tgcttctattcagttccccttccca		79801	tgtacactctcaagtcctctagaga	AA097809	122405	agaagccagctgaacagcctagcta	X55184
37198	ttctattcagttccccttcccaatg		79802	ctgtcaatcacgtgagtacccaggc	AA097809	122406	cagctgaacagcctagctaaaaatg	X55184
37199	tctattcagttccccttcccaatgt		79803	atcacgtgagtacccaggctctatg	AA097809	122407	cctgtcatggctttctttgcagttt	X55184
37200	ttcagactcctgaggattacttcat		79804	acgatgcatccagtggcttactagc	AA097809	122408	atggctttctttgcagttttgacca	X55184
37201	tcagactcctgaggattacttcatg		79805	gtggcttactagctgcagattcagg	AA097809	122409	ttgaccatttttatccttctggtca	X55184
37202	cagactcctgaggattacttcatgc		79806	tactagctgcagattcaggccgaca	AA097809	122410	atttttatccttctggtcatggagg	X55184
37203	agactcctgaggattacttcatgcc		79807	ctgcagattcaggccgacagcaact	AA097809	122411	aaattctacgttggtgcaggcacca	X55184
37204	gactcctgaggattacttcatgccc		79808	attcaggccgacagcaacttcaaca	AA097809	122412	ctgctctcctccaagttcagtaatg	X55184
37205	ctcctgaggattacttcatgccccc		79809	agcaacttcaacagaccagtcacag	AA097809	122413	ttgcacgctgcagcaagcccgctct	X55184
37206	gaggattacttcatgcccccaacat		79810	ttcaacagaccagtcacagactatt	AA097809	122414	gctgcagcaagcccgctctgatcaa	X55184
37207	aggattacttcatgcccccaacatc		79811	agaccagtcacagactattcagccg	AA097809	122415	catctatgacctttttatggctttc	M84324
37208	ttccatcacactgcaaaagatgctg	X58876	79812	ctctcaagtcctctagagactacta	AA097809	122416	tgacctttttatggctttcagcact	M84324
37209	gatgctggacccttcgtgagaactg	X58876	79813	agtcctctagagactactacacgga	AA097809	122417	ctgcccaaaggactcgggttgtctg	M84324
37210	gcaagactggacacctcatgtcatg	X58876	79814	ctagagactactacacggacggcgc	AA097809	122418	aaaggactcgggttgtctgacatcg	M84324
37211	ctggacacctcatgtcatgtttcac	X58876	79815	catacttcagaactggttctgctca	AA097809	122419	gacatcgctgcatgatgcatctcag	M84324
37212	acctcatgtcatgtttcacgtgtgc	X58876	79816	ctggttctgctcacactctctccat	AA097809	122420	gctgcatgatgcatctcagcccgcc	M84324
37213	tgtcatgtttcacgtgtgcaaagaa	X58876	79817	acactctctccatggtgcatctaga	AA097809	122421	ctcactctgtgcagatcatgcccag	M84324
37214	gtttcacgtgtgcaaagaagctaaa	X58876	79818	ggctcaagcgacctgtcaatcacgt	AA097809	122422	agatcatgcccagtcacttcctcca	M84324
37215	tgtgcagacagccaatccaaatgat	X58876	79819	agcgacctgtcaatcacgtgagtac	AA097809	122423	tcctccactggatggaggagaacca	M84324
37216	taagttacttcaactagctgacctg	X58876	79820	cagcaaacaggcgggcaggcacatc	X93999	122424	aagtcagtggcttcctgctcagcct	M84324
37217	acttcaactagctgacctgctcaca	X58876	79821	gcacatctcagagctaagtagtcca	X93999	122425	gtggcttcctgctcagccttcttgc	M84324
37218	actagctgacctgctcacaaaaata	X58876	79822	ctagaacaccttaggcattatagga	X93999	122426	tcagccttcttgcttctccctttaa	M84324
37219	tgacctgctcacaaaaatagaattt	X58876	79823	ctgcctcctgatagaggatgagaaa	X93999	122427	ttttatggctttcagcactctcaga	M84324
37220	aagagccatgtgctgaggaggacag	X58876	79824	agaagacacaaactccaaggtggtg	X93999	122428	taaataaagacacccattgagtgac	M84324
37221	agagtgacgactattcccaaccatc	X58876	79825	tgtggcggcactcaggacagagttt	X93999	122429	ggctttcagcactctcagagttaat	M84324
37222	attcccaaccatcgacttccagcag	X58876	79826	tcgccaccactgagtctcactggag	X93999	122430	tagagactggcttaggagggcactg	M84324
37223	cgacttccagcagcattgtttatag	X58876	79827	agtctcactggagaggcacattagt	X93999	122431	ggcactggtggccctgttaacagcc	M84324
37224	gcttctccctgaatgccatcgaacc	X58876	79828	cattagtccttgtcaccaacaggaa	X93999	122432	ggtggccctgttaacagcctggcat	M84324
37225	atgccatcgaaccatgtgtgatctg	X58876	79829	tccttgtcaccaacaggaaactgag	X93999	122433	cacctggtttcaccctttctgctgc	M84324
37226	tcgaaccatgtgtgatctgccaggg	X58876	79830	tcaccaacaggaaactgagtgatgg	X93999	122434	tacctgcaccaccttaactgttgct	M84324
37227	gcattgttcacggcaagactggaca	X58876	79831	gtgatggaccctcacttcacagctt	X93999	122435	tgttgcttttgtatgcccttcgctc	M84324
37228	cggccggtcctgagtcagcttgggt	W34296	79832	tagtccaaagccagcacctggccct	X93999	122436	actagatgctagctcgcgatggtag	W34025
37229	tcgacgtgtgggtctcgttggaaga	W34296	79833	caataaacagcacctgatgcagtcc	X93999	122437	ctagatgctagctcgcgatggtagt	W34025
37230	ctctaaccagttacgtgctgagctg	W34296	79834	tggccctgggcaactagaaacattg	X93999	122438	atcccaaagcaggatccttattgac	W34025
37231	tctaaccagttacgtgctgagctgg	W34296	79835	gatggaaccactcagggctatccag	X93999	122439	atccttattgacgggatatgatgag	W34025
37232	ctaaccagttacgtgctgagctgga	W34296	79836	accactcagggctatccaggaacct	X93999	122440	atgagttcggccagattccacggag	W34025
37233	taaccagttacgtgctgagctggag	W34296	79837	cagggctatccaggaacctcgatcg	X93999	122441	agttcggccagattccacggaggct	W34025
37234	aaccagttacgtgctgagctggaga	W34296	79838	tatccaggaacctcgatcgagcaga	X93999	122442	tcggccagattccacggaggctttc	W34025
37235	accagttacgtgctgagctggagaa	W34296	79839	gttgagtcccaaatgccaaagccat	X93999	122443	gccagattccacggaggctttcccg	W34025
37236	ccagttacgtgctgagctggagaag	W34296	79840	tcccaaatgccaaagccattcaacc	X93999	122444	cagagcagcaacagccccttaaaaa	W34025
37237	cagttacgtgctgagctggagaagc	W34296	79841	ggacagctattcttctgacagacac	L10410	122445	agagcagcaacagccccttaaaaag	W34025
37238	agttacgtgctgagctggagaagca	W34296	79842	ttctgacagacacttatctcagtac	L10410	122446	agcagcaacagccccttaaaaagag	W34025
37239	gttacgtgctgagctggagaagcac	W34296	79843	aagctccgagcacacacatcataaa	L10410	122447	gcagcaacagccccttaaaaagaga	W34025
37240	agatgacttctctaaccagttacgt	W34296	79844	cacacatcataaatcctccagggat	L10410	122448	agatgctagctcgcgatggtagtgc	W34025
37241	atgacttctctaaccagttacgtgc	W34296	79845	gtatctctcagattggcagttggac	L10410	122449	gctagctcgcgatggtagtgcgcgc	W34025
37242	tgacttctctaaccagttacgtgct	W34296	79846	ttggcagttggaccaccgagctgcc	L10410	122450	accggtgtcggtgaccctgatcctg	W34025
37243	gacttctctaaccagttacgtgctg	W34296	79847	gttggaccaccgagctgccagcagt	L10410	122451	tgtcggtgaccctgatcctggacac	W34025
37244	acttctctaaccagttacgtgctga	W34296	79848	agatcagaggtctccatatggctcc	L10410	122452	gtcggtgaccctgatcctggacacc	W34025
37245	cttctctaaccagttacgtgctgag	W34296	79849	gaggtctccatatggctccaggtcc	L10410	122453	cggtgaccctgatcctggacaccga	W34025
37246	ttctctaaccagttacgtgctgagc	W34296	79850	cccatttgaacattcagctgaacac	L10410	122454	ggtgaccctgatcctggacaccgag	W34025
37247	tctctaaccagttacgtgctgagct	W34296	79851	tgaacattcagctgaacacagaagt	L10410	122455	gaatcccaaagcaggatccttattg	W34025
37248	gattcacgcaagaaattctaattga	U40575	79852	tgaacacagaagtacgcctgaacac	L10410	122456	agtcttcaaggactcattcttggga	W34232
37249	ttatgtactgggatttgctgtgtga	U40575	79853	cttatctcagtaccatgatcatcac	L10410	122457	caaggactcattcttgggacgcctg	W34232
37250	atcttagacatatctagtcaatttc	U40575	79854	tcagtaccatgatcatcacaaggac	L10410	122458	gtagtcgtaacactcatgattgacg	W34232
37251	catatctagtcaatttctacccaat	U40575	79855	ccatgatcatcacaaggaccgccat	L10410	122459	acactcatgattgacgagcggagca	W34232
37252	tatctagtcaatttctacccaataa	U40575	79856	ctactcctcatttagcaatggcaaa	L10410	122460	ctcatgattgacgagcggagcactt	W34232
37253	tgttcttttgacttacatcatataa	U40575	79857	tgaccaccgatctcactcggaccat	L10410	122461	tcttcttgttcgtgattgatgtggc	W34232
37254	tcgaaatacccttcttgcaatgtata	U40575	79858	tcactcggaccatcgaatgcactca	L10410	122462	tcttgttcgtgattgatgtggcccg	W34232
37255	gaaataccctcttgcaatgtatagt	U40575	79859	ggaccatcgaatgcactcagaccat	L10410	122463	tgattgatgtggcccgttcgttggg	W34232
37256	aataccctcttgcaatgtatagttt	U40575	79860	agaccatcgctcaagctccgagcac	L10410	122464	gaatattgccacagtagttgaaaat	W34232
37257	ccctcttgcaatgtatagtttttag	U40575	79861	agcccctcgggaggtccagctacag	D83698	122465	tattgccacagtagttgaaaatcat	W34232
37258	atatcttgcaaagtgtccccattta	U40575	79862	ccctcgggaggtccagctacagaga	D83698	122466	tgtacttgtcgaggaacctgatgat	W34232
37259	atcttgcaaagtgtccccatttata	U40575	79863	tgcttgtcgctgcccatgcaggaaa	D83698	122467	acttgtcgaggaacctgatgatgtt	W34232
37260	atgtactgggatttgctgtgtgaac	U40575	79864	tcgctgcccatgcaggaaacttaca	D83698	122468	ggactcattcttgggacgcctgcgt	W34232
37261	tgtgtgaacttgccttcataaccta	U40575	79865	ctgcccatgcaggaaacttacatgg	D83698	122469	ctcattcttgggacgcctgcgtttc	W34232
37262	tgtgaacttgccttcataacctagg	U40575	79866	acttacatggaccggtgggatcagc	D83698	122470	acgcctgcgtttcaaccgcacgact	W34232
37263	tgaacttgccttcataacctaggta	U40575	79867	tacatggaccggtgggatcagcgtg	D83698	122471	gcgtttcaaccgcacgactcgcttg	W34232
37264	ggactttgtctaatctgctaatctt	U40575	79868	cgtggaccaactgttcagcacagat	D83698	122472	caaccgcacgactcgcttgagcttg	W34232

TABLE 1

SEQ ID NO	sequence	DBAxnID
37265	actttgtctaatctgctaatcttag	U40575
37266	tctaatctgctaatcttagacatat	U40575
37267	atctgctaatcttagacatatctag	U40575
37268	cccacgtgcagacaacagtttctgc	U40576
37269	caacagtttctgctgtctttgaact	U40576
37270	gagaatggccctgtcaagcacctcc	U40576
37271	acagatttgctagtcctacgcttat	U40576
37272	gtcctacgcttatatttgcttgcga	U40576
37273	cgcttatatttgcttgcgattagga	U40576
37274	aactgcatgtgcaatacggaaacca	U40576
37275	gaaaccagaacggactgcaccttgt	U40576
37276	agaacggactgcaccttgtggaaga	U40576
37277	tacatttagcgtttctagctagcca	U40576
37278	tagcgtttctagctagccaagagac	U40576
37279	ctagccaagagacttcatagcaaca	U40576
37280	tttctgctgtctttgaactcatgca	U40576
37281	ttgaactcatgcatctcatttttaa	U40576
37282	atacaaaagccaacaaggagaggct	U40576
37283	gtgtgcttccgaagcacactaacaa	U40576
37284	agcacactaacaagctcgctcataa	U40576
37285	ctaacaagctcgctcataaccgagc	U40576
37286	agctcgctcataaccgagcccttag	U40576
37287	gacacaagttgcaccttcaaaatat	U40576
37288	gacagtgccaacgtccaccaactcg	AA008384
37289	agtgccaacgtccaccaactcgacg	AA008384
37290	cggctcgtactcgctcaacagcaga	AA008384
37291	gctcgtactcgctcaacagcagacg	AA008384
37292	ctcgtactcgctcaacagcagacgg	AA008384
37293	tcgtactcgctcaacagcagacggc	AA008384
37294	gtactcgctcaacagcagacggcac	AA008384
37295	tactcgctcaacagcagacggcacc	AA008384
37296	actcgctcaacagcagacggcacca	AA008384
37297	tcaacagcagacggcaccaccacta	AA008384
37298	caacagcagacggcaccaccactaa	AA008384
37299	ggcaccaccactaagtactctctca	AA008384
37300	caccaactcgacgtgcctacgctga	AA008384
37301	ctgactggagcctccggactcctgg	AA008384
37302	actggagcctccggactcctggcat	AA008384
37303	tacacgtcctacggcctcggctcgt	AA008384
37304	ggcctcggctcgtactcgctcaaca	AA008384
37305	gcctcggctcgtactcgctcaacag	AA008384
37306	ctcggctcgtactcgctcaacagca	AA008384
37307	tcggctcgtactcgctcaacagcag	AA008384
37308	cgccgaccgaagtgattccagttgt	U48972
37309	tcacgcagcattcgaagggactgtg	U48972
37310	ttctgaccgtcacaaattgtagtgc	U48972
37311	taacactgattgtctaagagatgaa	U48972
37312	aagtcctccaaagatgacacaggaa	U48972
37313	gaaatgtctgtgttccttgggaatc	U48972
37314	ttccttgggaatcgtgcgctctctg	U48972
37315	gggaatcgtgcgctctctgtagttt	U48972
37316	tccatcattggtgcagttcgaacga	U48972
37317	atgacctcattttcttgagcttgaa	U48972
37318	ctgttctctgcatttagaagtatac	U48972
37319	agtatacacagtacaactgttaatt	U48972
37320	gactgtgcacgctctaaagatcaca	U48972
37321	gatcacagttgcttctaagccagat	U48972
37322	agttgcttctaagccagatttcatt	U48972
37323	ttctaagccagatttcatttctatt	U48972
37324	tttatgtgccaaaccccaaagtgca	U48972
37325	accccaaagtgcattgggcctgaat	U48972
37326	aagtgcattgggcctgaatctctga	U48972
37327	cctgaatctctgaacactgtagacc	U48972
37328	tcgactagctggcggcgcgcacacg	AA016928
37329	aggccctgcacagcagcatgcacat	AA016928
37330	agcagtcctatgacgtgaccgacga	AA016928
37331	cagtcctatgacgtgaccgacgagc	AA016928
37332	gtcctatgacgtgaccgacgagctg	AA016928

SEQ ID NO	sequence	DBAxnID
79869	ccaactgttcagcacagatgctggt	D83698
79870	actgttcagcacagatgctggtgtg	D83698
79871	gttcagcacagatgctggtgtggag	D83698
79872	cagcacagatgctggtgtggagtag	D83698
79873	atacaaaattccgtacctgtgcatg	D83698
79874	tttcctttccacacgcgcaaccttg	D83698
79875	acgcgcaaccttgcgatgtgaactc	D83698
79876	cgcaaccttgcgatgtgaactctga	D83698
79877	atgtgaactctgagacttcgtaatg	D83698
79878	actctgagacttcgtaatgtctagg	D83698
79879	agacttcgtaatgtctagggtggca	D83698
79880	agatgcttgtcgctgcccatgcagg	D83698
79881	ggtaccaatagttacctgccatact	AA097202
79882	accaatagttacctgccatactcgg	AA097202
79883	gataactcctggctccaatccacct	AA097202
79884	tcctggctccaatccacctacattg	AA097202
79885	gatctggccttcaagttcccggatc	AA097202
79886	gccttcaagttcccggatctggatg	AA097202
79887	ccggatctggatgctggggcaattg	AA097202
79888	gcaattgacaccgcagagccattac	AA097202
79889	attgacaccgcagagccattaccgt	AA097202
79890	gacaccgcagagccattaccgtttg	AA097202
79891	gcagagccattaccgtttggggctg	AA097202
79892	gagccattaccgtttggggctgaag	AA097202
79893	agttacctgccatactcggaccaag	AA097202
79894	tcggaccaagttgtctggatagcca	AA097202
79895	tggatagccagcaaacagagtctgg	AA097202
79896	ctggccattagcagaccatggcaaa	AA097202
79897	gccattagcagaccatggcaaagaa	AA097202
79898	ttcttggcggctgttgctgataact	AA097202
79899	ttggcggctgttgctgataactcct	AA097202
79900	gctgataactcctggctccaatcca	AA097202
79901	caaccatcgaactcaaggcccttag	AA097203
79902	gaactcaaggcccttaggttgctga	AA097203
79903	cttccagaggcagctgcccaggagg	AA097203
79904	agacacagccctggagacagccctc	AA097203
79905	acagccctggagacagccctcaatg	AA097203
79906	agccctggagacagccctcaatgcc	AA097203
79907	ccctggagacagccctcaatgccaa	AA097203
79908	ctggagacagccctcaatgccaagg	AA097203
79909	ggagacagccctcaatgccaaggcc	AA097203
79910	acagccctcaatgccaaggcctaca	AA097203
79911	agccctcaatgccaaggcctacaag	AA097203
79912	ccctcaatgccaaggcctacaagcg	AA097203
79913	ggcccttaggttgctgaacttccag	AA097203
79914	cctcaatgccaaggcctacaagcgc	AA097203
79915	cccttaggttgctgaacttccagag	AA097203
79916	taggttgctgaacttccagaggcag	AA097203
79917	ggttgctgaacttccagaggcagct	AA097203
79918	ttgctgaacttccagaggcagctgc	AA097203
79919	gctgaacttccagaggcagctgccc	AA097203
79920	tgaacttccagaggcagctgcccag	AA097203
79921	aacttccagaggcagctgcccagga	AA097203
79922	tttgccaccaaagacagcaagcagt	Y08135
79923	gacagcaagcagttcctgaaatact	Y08135
79924	atggtgctcctgcgatcagcttctg	Y08135
79925	ctcctgcgatcagcttctgaagtgc	Y08135
79926	cgatcagcttctgaagtgctgggag	Y08135
79927	tgacttgtgaggctcagatgctgat	Y08135
79928	ctcagatgctgataccagtaacatt	Y08135
79929	tcaaaattaacttcacgcattgaat	Y08135
79930	ttaacttcacgcattgaatacattt	Y08135
79931	taaactgttcattagcggagtgata	Y08135
79932	atatctcgtcttccaattttatgta	Y08135
79933	ttgtcatctatgcaataaagcagtt	Y08135
79934	agtgcaacttgtgaccagcattgta	Y08135
79935	aagaccttacaggtctgtgcaatta	Y08135
79936	ttacaggtctgtgcaattatgaatc	Y08135

SEQ ID NO	sequence	DBAxnID
122473	ccaccgcttcacatgtctgtagtcg	W34232
122474	ccgcttcacatgtctgtagtcgtaa	W34232
122475	cttcacatgtctgtagtcgtaacac	W34232
122476	caggtgctgcaccccaacatcatca	W82116
122477	aacatcatcacgaggcacgacgtct	W82116
122478	tgtttgatttcctggcccagaagga	W82116
122479	ttgatttcctggcccagaaggagtc	W82116
122480	aggaagccaccagcttcattaagca	W82116
122481	aagccaccagcttcattaagcagat	W82116
122482	ccaccagcttcattaagcagatcct	W82116
122483	ccagcttcattaagcagatcctgga	W82116
122484	gcttcattaagcagatcctggatgg	W82116
122485	aaattgctcactttgatctcaagcc	W82116
122486	ttgctcactttgatctcaagccaga	W82116
122487	ttgatctcaagccagaaaacatcat	W82116
122488	atcatcacgaggcacgacgtctatg	W82116
122489	acaagaatatcccaattccacacat	W82116
122490	atcacgaggcacgacgtctatgaga	W82116
122491	acgaggcacgacgtctatgagaacc	W82116
122492	gtctatgagaaccgcaccgacgtgg	W82116
122493	tatgagaaccgcaccgacgtggtgc	W82116
122494	aaccgcaccgacgtggtgctcatcc	W82116
122495	accgacgtggtgctcatccttgagc	W82116
122496	cttgagctagtgtccggagagaact	W82116
122497	tctcctaagggagcaagtggcgcag	J03236
122498	catgacccatgtcagcaacggctgc	J03236
122499	tttttctgcaaagagactgaattca	J03236
122500	ccgcttggtactcagcctgcgggga	J03236
122501	cttggtactcagcctgcggggatac	J03236
122502	ggtactcagcctgcggggatactag	J03236
122503	ccctctgcatagtactgtggagaag	J03236
122504	gaagaaacacgcacttcgtgtctaa	J03236
122505	gaaacacgcacttcgtgtctaaagt	J03236
122506	acacgcacttcgtgtctaaagtcta	J03236
122507	cgcacttcgtgtctaaagtctattt	J03236
122508	gcacttcgtgtctaaagtctatttt	J03236
122509	gacccatgtcagcaacggctgccag	J03236
122510	ccatgtcagcaacggctgccagttg	J03236
122511	caacggctgccagttgctgctaggg	J03236
122512	cggctgccagttgctgctaggggtc	J03236
122513	ccagttgctgctaggggtcaaggga	J03236
122514	gttgctgctaggggtcaagggacac	J03236
122515	ggcgcagctcacacactggactccg	J03236
122516	tccttccacctcgaggtttacatgg	J03236
122517	tcaacagcggctgccagctgctgcc	J05205
122518	cagcaccaggtcccggcgtactgag	J05205
122519	gaacaaacgttggttgcgtgttgag	J05205
122520	caaacgttggttgcgtgttgagtgt	J05205
122521	aaacgttggttgcgtgttgagtgtg	J05205
122522	aacgttggttgcgtgttgagtgtgt	J05205
122523	tgttttgctacgagtccacattcct	J05205
122524	ttgctacgagtccacattcctgttc	J05205
122525	tgctacgagtccacattcctgttcc	J05205
122526	gctacgagtccacattcctgttccg	J05205
122527	tacgagtccacattcctgttccgta	J05205
122528	cacattcctgttccgtaatcctggt	J05205
122529	agcaccaggtcccggcgtactgagc	J05205
122530	gcaccaggtcccggcgtactgagcc	J05205
122531	ctttgatcctccgagtaggggctct	J05205
122532	tttgatcctccgagtaggggctcta	J05205
122533	ttgatcctccgagtaggggctctaa	J05205
122534	gagtgtccgattccgccctatttat	J05205
122535	agtgtccgattccgccctatttatg	J05205
122536	gtgtccgattccgccctatttatgt	J05205
122537	taatgaacacacatatgctttgatg	D13695
122538	atgaacacacatatgctttgatgct	D13695
122539	tcatttcttcaaagtgcttgtccag	D13695
122540	atttcttcaaagtgcttgtccaggc	D13695

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37333	cctatgacgtgaccgacgagctgcc	AA016928	79937	cttgatagcatgtcctatgatgatt	Y08135	122541	ttcttcaaagtgcttgtccaggcag	D13695
37334	tatgacgtgaccgacgagctgccgt	AA016928	79938	agcatgtcctatgatgattgcctta	Y08135	122542	tgtagccatctctgtattagattag	D13695
37335	agatgaccttcacggccactggcag	AA016928	79939	taaagcacagtcactagtattccag	Y08135	122543	aaatgcttgttttccatgtatcaaa	D13695
37336	ggcaagaccccaggaaggtgatgaa	AA016928	79940	acagtcactagtattccagttgtgt	Y08135	122544	atgcttgttttccatgtatcaaaat	D13695
37337	caagaccccaggaaggtgatgaatc	AA016928	79941	cacatcatggtgctcctgcgatcag	Y08135	122545	gcttgttttccatgtatcaaaatgt	D13695
37338	agaccccaggaaggtgatgaatcag	AA016928	79942	ttccaggaagctcatgagcagtctg	X62154	122546	ttgttttccatgtatcaaaatgtta	D13695
37339	tgatgaatcagcctctgaatcatgt	AA016928	79943	gaagctcatgagcagtctgtgggca	X62154	122547	gttttccatgtatcaaaatgttatg	D13695
37340	gccctgcacagcagcatgcacatct	AA016928	79944	cagctgtgtcctgcgttgttacttg	X62154	122548	taattgtgccattgactccttgtgt	D13695
37341	atgaatcagcctctgaatcatgtga	AA016928	79945	ctgtgtcctgcgttgttacttgtgt	X62154	122549	acacacatatgctttgatgcttttg	D13695
37342	tgcacagcagcatgcacatctccgc	AA016928	79946	gcactttagtccaggaagctttctt	X62154	122550	acacatatgctttgatgcttttgct	D13695
37343	agcatgcacatctccgccagcagtc	AA016928	79947	tagtccaggaagctttctttgcgat	X62154	122551	atatgctttgatgcttttgctaaac	D13695
37344	catctccgccagcagtcctatgacg	AA016928	79948	aagctttctttgcgataagactagt	X62154	122552	tgatgcttttgctaaactcaaaata	D13695
37345	tctccgccagcagtcctatgacgtg	AA016928	79949	ctttctttgcgataagactagtatg	X62154	122553	atgcttttgctaaactcaaaatatt	D13695
37346	tccgccagcagtcctatgacgtgac	AA016928	79950	ttgacctaaatatccaagacattga	X62154	122554	ttcaaagcatgatccatgtaaaaat	D13695
37347	cgccagcagtcctatgacgtgaccg	AA016928	79951	acctaaatatccaagacattgatac	X62154	122555	ttctgtggggctttctcccatttct	D13695
37348	ccagcagtcctatgacgtgaccgac	AA016928	79952	taaatatccaagacattgatactga	X62154	122556	cctcatttcttcaaagtgcttgtcc	D13695
37349	gaggctcaacatcgcgactcctggc	AA008463	79953	gtggacttcatgctttgtgctttaa	X62154	122557	cagatgatctctactgtgtgaacct	M13500
37350	catcgcgactcctggcccgatttgt	AA008463	79954	cacctcacagaatccatcaaccgga	X62154	122558	actgtgccaaagcccacatagagaa	M13500
37351	catatcacactgaagttaactctga	AA008463	79955	ctcacagaatccatcaaccggaata	X62154	122559	tatcacaactgtctgttctcaataa	M13500
37352	aagttaactctgatcatgactctgg	AA008463	79956	acagaatccatcaaccggaatagag	X62154	122560	cacaactgtctgttctcaataaaag	M13500
37353	ctctcataggcacctggcaaatcga	AA008463	79957	tccatcaaccggaatagagaagagc	X62154	122561	tgtctgttctcaataaaaggcacca	M13500
37354	tcataggcacctggcaaatcgaagg	AA008463	79958	gaagagcctttctcctcagaggaaa	X62154	122562	aaaggcaccatgcaacaaatgagtt	M13500
37355	taggcacctggcaaatcgaaggata	AA008463	79959	aaccaggtcatggtgtctgagggca	X62154	122563	tcaaggtctgacattctctgtcctg	M13500
37356	aatatcatgtcctcctgagcactag	AA008463	79960	cctcacaagcccaatcctaaacatg	X62154	122564	attctctgtcctgctggagtgtgat	M13500
37357	atcatgtcctcctgagcactaggct	AA008463	79961	gcacagctgtgtcctgcgttgttac	X62154	122565	tgatcatgattcctcagctaaggcc	M13500
37358	atgtcctcctgagcactaggctggc	AA008463	79962	agattattgtctcgttgtgcacagc	U52222	122566	tcatgattcctcagctaaggccagg	M13500
37359	tcctgagcactaggctggccatctc	AA008463	79963	cgttgtgcacagccaagatgttctt	U52222	122567	ctcagctaaggccaggacttccaaa	M13500
37360	gcactaggctggccatctcgaagca	AA008463	79964	ttgcctccatagtgttggaaaggat	U52222	122568	taaggccaggacttccaaagtagat	M13500
37361	tggcccgatttgtgttcgtagccat	AA008463	79965	tctcctgtctgccccataatcagat	U52222	122569	gtgccaaagcccacatagagaaggt	M13500
37362	ggctggccatctcgaagcaactatg	AA008463	79966	gtctgccccataatcagattgctag	U52222	122570	aagcccacatagagaaggtgacaga	M13500
37363	gatttgtgttcgtagccatgacctt	AA008463	79967	atgctgaacaggcacaccatagttt	U52222	122571	gccataccccatgcggtgaacctga	M13500
37364	cccatgggctccctgatcatgtccg	AA008463	79968	aacaggcacaccatagtttaaatgg	U52222	122572	ataccccatgcggtgaacctgatat	M13500
37365	atgggctccctgatcatgtccggaa	AA008463	79969	tcgtggtgcagactctctcgtctct	U52222	122573	aacctgatatgccaggcgtctacac	M13500
37366	atcatgtccggaatatcttagagct	AA008463	79970	tgcagactctctcgtctctggggca	U52222	122574	atatgccaggcgtctacaccaaact	M13500
37367	ctattgaacacgttggaagacaagg	AA008463	79971	cgtctctggggcaaccaggtcttgg	U52222	122575	tgccaggcgtctacaccaaacttaa	M13500
37368	acagaacatatcacactgaagttaa	AA008463	79972	cagaccaaacctgaacaaaatgtgg	U52222	122576	acccctaagtatcacaactgtctgt	M13500
37369	gaacatatcacactgaagttaactc	AA008463	79973	tttattcttacctatggctgaatta	U52222	122577	ctttgcctttgtgatcccagtcctc	L11065
37370	tgcatccctttggtgctgatcttgg	U22829	79974	gcacagccaagatgttctttgtgga	U52222	122578	ctttgtgatcccagtcctcatcatc	L11065
37371	cctttggtgctgatcttgggctgtt	U22829	79975	ctagcagattatccacactggttgg	U52222	122579	ttggacccccattcacatctttatc	L11065
37372	cccattctttatttcttggctggag	U22829	79976	gggtcttcctgctctccttgtttgc	U52222	122580	ccccattcacatctttatcctggtg	L11065
37373	cgagccaccaggaaagcttccagga	U22829	79977	tagaaatcagtctatccaacttgaa	U52222	122581	cctgaatcctgttctctatgccttt	L11065
37374	aaagcttccaggaggagtgaggcca	U22829	79978	tcagtctatccaacttgaagctctt	U52222	122582	tcctgttctctatgcctttctggat	L11065
37375	gaggccaatttacaatccaagagtg	U22829	79979	acttgaagctcttcagggttgcctc	U52222	122583	ggacttctgcttccctattaagatg	L11065
37376	atgactctcaatattttgtctgagt	U22829	79980	agctcttcagggttgcctccatagt	U52222	122584	ggagcgccagagcaccaatagagtt	L11065
37377	gagatcctagctcctgagttttgta	U22829	79981	tcagggttgcctccatagtgttgga	U52222	122585	cacagttcaggatcctgcttccatg	L11065
37378	ctagctcctgagttttgtaacatgg	U22829	79982	cctcaacccactggtgtacgtgatc	X78438	122586	tcaggatcctgcttccatgagagat	L11065
37379	agacatccctgagatgatctatgca	U22829	79983	cccactggtgtacgtgatcgtgggc	X78438	122587	gtcttcttattgttctccaggtaga	L11065
37380	ttgaccaaaagaccagtgtgtgcca	U22829	79984	accctggggcacagcagggtcattc	X78438	122588	ttattgttctccaggtagagaagag	L11065
37381	ccagtgtgtgccacctgagtgaggg	U22829	79985	cttactgactgacgctctaattctc	X78438	122589	gatcccagtcctcatcatcattgtc	L11065
37382	gtgctgatcttgggctgttatggat	U22829	79986	gactgacgctctaattctccatgag	X78438	122590	ggtttaacccagattacaactgcag	L11065
37383	gtgccacctgagtgagggttttcct	U22829	79987	cgctctaattctccatgagtggagg	X78438	122591	agtcctcatcatcattgtctgctac	L11065
37384	atttacaatgacctggacaactctc	U22829	79988	agatctcctgccagctttggccctg	X78438	122592	cattgtctgctacaccctgatgatc	L11065
37385	ctggacaactctccgctccggagga	U22829	79989	cctgccagctttggccctgtggcta	X78438	122593	caccctgatgatcctgcgcctgaag	L11065
37386	aaatccatttacctggtgataattg	U22829	79990	agctttggccctgtggctacatgca	X78438	122594	gatgatcctgcgcctgaagagtgtc	L11065
37387	atttacctggtgataattgtcctga	U22829	79991	ggccctgtggctacatgcacagtag	X78438	122595	caccaagctggtgctggtagtagtt	L11065
37388	gtgtcttatatcccctttccatgtga	U22829	79992	gtggctacatgcacagtaggcatgg	X78438	122596	agtagttgcagtcttcatcatctgt	L11065
37389	ggtctagcaagtctcaacagctgtg	U22829	79993	acatgcacagtaggcatggccgcct	X78438	122597	catctgttggacccccattcacatc	L11065
37390	ctcaacagctgtgtggaccccattc	U22829	79994	gcagatccacaagctgcaggactgg	X78438	122598	gtacatggcatcttggaccaaatat	M96688
37391	agggcaccaagcagctactgctgga	AA008502	79995	aacagaagccaccaggcaggactac	X78438	122599	actgttgctcgatcctcgcagcatt	M96688
37392	agcagctactgctggaggatggctt	AA008502	79996	ggactactgccaagtgtgtgaggat	X78438	122600	cttggtcactggcagaatctggaga	M96688
37393	cacgtcctcccaagatagccgagtt	AA008502	79997	gagctcctcagcctgggttcaggaa	X78438	122601	ttcagcttggcattttagtgcccaa	M96688
37394	agatagccgagttcaccgtcagcat	AA008502	79998	ctcagcctgggttcaggaaggagct	X78438	122602	ttggcattttagtgcccaagccatc	M96688
37395	tagccgagttcaccgtcagcatcac	AA008502	79999	catcctaggcagccccagggaatca	X78438	122603	tgcccaagccatcttctgactggta	M96688
37396	tcaccgtcagcatcaccgagggtgt	AA008502	80000	ctgtctcatggcataagcatgctgt	X78438	122604	agccatcttctgactggtagagcta	M96688
37397	ccgtcagcatcaccgagggtgtcac	AA008502	80001	ataagcatgctgtggggaatgggta	X78438	122605	attagctgcacggctttgaaagata	M96688
37398	tcagcatcaccgagggtgtcaccga	AA008502	80002	ggatcataaagtccaactggcttttt		122606	tctctagttgtgatctgtcacagga	M96688
37399	tcaccgagggtgtcaccgagaggtt	AA008502	80003	agatcttttagaagccattgtacac		122607	gttgtgatctgtcacaggagatgct	M96688
37400	aggtctccgtgctggtcctctgtgc	AA008502	80004	atcttttagaagccattgtacacta		122608	atctgtcacaggagatgctggcagg	M96688

09/15/99
09/396196

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO:	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37401	tgctggtcctctgtgctctgtccttt	AA008502	80005	ggatcataaagtccaactggctttt		122609	gggtctacatcagtcctcaccactc	M96688
37402	tcacctgtgtcgtcgtcctggttgt	AA008502	80006	gttgctgatttttctgctttataga		122610	gctcgatcctcgcagcattcgaggt	M96688
37403	agctactgctggaggatggcttcga	AA008502	80007	ttgctgatttttctgctttatagat		122611	tcgaggtttctccatcttagtgaca	M96688
37404	tcgtcgtcctggttgtctacagagt	AA008502	80008	tgctgatttttctgctttatagatc		122612	catcagtcacgtggatgagatgcac	M96688
37405	gcttcgacaccattcctttgatgac	AA008502	80009	gctgatttttctgctttatagatct		122613	gatgcacgtttctgactgatcttcc	M96688
37406	tcgacaccattcctttgatgacgcc	AA008502	80010	ctgatttttctgctttatagatctt		122614	atgcctgggtcttgtaatatctcta	M96688
37407	acaccattcctttgatgacgcccct	AA008502	80011	ttttctgctttatagatcttttaga		122615	ggaagcagctacactcaggtccctt	M96688
37408	ccctcgatgtcaaccagctgcagtt	AA008502	80012	tttctgctttatagatcttttagaa		122616	ttacttagcttctggtcacttggtc	M96688
37409	aatatgagcctgatcgcaataaagg	AA008502	80013	agatcttttagaagccattgtacac		122617	tggtcacttggtcactggcagaatc	M96688
37410	aaggtcaagcacgtcctcccaagat	AA008502	80014	atcttttagaagccattgtacacta		122618	gaaaccctgagcaactatgtgggtt	M77753
37411	gtcaagcacgtcctcccaagatagc	AA008502	80015	acatgacgtgcatcatcatttgctt	U42383	122619	cactgaactcagatcctgtccaaga	M77753
37412	aattctatatcactgtgttgggtaa	L14935	80016	cgtgcatcatcatttgcttcaagcc	U42383	122620	ttttcacatgatgtgttagagtgtg	M77753
37413	atatcactgtgttgggtaactgttt	L14935	80017	ggctttcctcagcccattacaaaga	U42383	122621	catctcaattactttaccatccaca	M77753
37414	caaaccacccaggagcagcagtggc	L14935	80018	ttactctccttgggctcatcgacta	U42383	122622	cactgggactcttacagatgcccat	M77753
37415	accacccaggagcagcagtggccct	L14935	80019	tccttgggctcatcgactatcggtt	U42383	122623	tacagatgcccatgtgtagtttctc	M77753
37416	ctccaggtctcacagttgccatggt	L14935	80020	ggctcatcgactatcggttctgtgc	U42383	122624	tgcccatgtgtagtttctctattct	M77753
37417	caggtctcacagttgccatggtaac	L14935	80021	tcgactatcggttctgtgcctgtgc	U42383	122625	tgtgtagtttctctattctgtaaag	M77753
37418	cctccagttcagcaacatatgggga	L14935	80022	cctgtgctctgttgtgttggaggga	U42383	122626	gtttctctattctgtaaaggagata	M77753
37419	agggcctttgggcagagcagaagct	L14935	80023	ctctgttgtgttggagggaaggact	U42383	122627	acctgaggtgcctggattctaatcc	M77753
37420	gtagccacctcatcagctactgtca	L14935	80024	ttctgatttttactctgtgaacact	U42383	122628	cacagtctgtgtctgagctcatcta	M77753
37421	acctcatcagctactgtcatctgtc	L14935	80025	tctctgttgtacactttcaagcaac	U42383	122629	ctgagctcatctacaaaacagtcat	M77753
37422	gctactgtcatctgtcctctaaggg	L14935	80026	ttgtacactttcaagcaacacttttt	U42383	122630	actcagatcctgtccaagagcagcc	M77753
37423	atctgtcctctaaggggcattataa	L14935	80027	tcaagccccgaaacacagtagagct	U42383	122631	atcctgtccaagagcagccagtgct	M77753
37424	gaacgggtctactgttgtagctcag	L14935	80028	ctgaagacaccggcaacagtgacaa	U42383	122632	tccaagagcagccagtgctctcaat	M77753
37425	gtctactgttgtagctcagcagttg	L14935	80029	catgtggactgttttctgagccctt	U42383	122633	agccatgtctacagcttgaccctgt	M77753
37426	ttgcctaaactgtgcagaaagagac	L14935	80030	tttctgagcccttggacccgagact	U42383	122634	gtctacagcttgaccctgtatatta	M77753
37427	ccctttttggagccgagcagtgcac	L14935	80031	tggacccgagactgagttttgtcct	U42383	122635	agtgctacaacatgaagcttttcac	M77753
37428	tttttggagccgagcagtgcacatc	L14935	80032	ttgtccttgtcctttagcctttagca	U42383	122636	acaacatgaagcttttcacatgatg	M77753
37429	agcagtgcacatctcagttctagaa	L14935	80033	ttgtcctttagccttagcagtgggt	U42383	122637	tgaagcttttcacatgatgtgttag	M77753
37430	agtgcacatctcagttctagaagac	L14935	80034	tttagccttagcagtgggtatgagg	U42383	122638	ttttgccagcccgtagcaaaccatg	AA162710
37431	catctcagttctagaagaccaatgc	L14935	80035	tttgtcaggcctgatggtttctata	U42384	122639	cccgtagcaaaccatgctcttttct	AA162710
37432	ccaggtacacaaaattcctgactca	U22516	80036	aggcctgatggtttctatagactca	U42384	122640	agtggatggccttgagcagggctat	AA162710
37433	acacaaaattcctgactcagcacca	U22516	80037	gaactttctctgcaagcttacatta	U42384	122641	tggccttgagcagggctatgttgtt	AA162710
37434	gagcctctgcagggttcagacatgt	U22516	80038	tctctgcaagcttacattacagtgt	U42384	122642	ctatgttgtttgtccctctgagaag	AA162710
37435	tccacttcgatgagtcatttttcag	U22516	80039	caagcttacattacagtgtgctgaa	U42384	122643	tgttgtttgtccctctgagaagagg	AA162710
37436	agtcatttttcagtctatagtcagc	U22516	80040	tacattacagtgtgctgaaacacta	U42384	122644	tgtttgtccctctgagaagaggttc	AA162710
37437	cctggcacagacctagctatgtttt	U22516	80041	caaatactgtgctctgactcatgtt	U42384	122645	gaggttccttctgcttttcacattc	AA162710
37438	tagcccagaacactggttccagcgt	U22516	80042	ctgtgctctgactcatgttacaatg	U42384	122646	ccttctgcttttcacattccttaag	AA162710
37439	ctggttccagcgttcattgtcaggg	U22516	80043	tctgactcatgttacaatgagaatc	U42384	122647	tctgcttttcacattccttaagaag	AA162710
37440	ccagcgttcattgtcaggggccaga	U22516	80044	gtgtatggtccactttgttaacact	U42384	122648	cttttcatcttgtatgtctgtgaaa	AA162710
37441	acatatgtctcctgatttgcaatgc	U22516	80045	ggtccactttgttaacactttgctg	U42384	122649	ttcatcttgtatgtctgtgaaatac	AA162710
37442	gtctcctgatttgcaatgcacagaa	U22516	80046	ctttgttaacactttgctgctccct	U42384	122650	gtagcaaaccatgctcttttctgcc	AA162710
37443	gatgtctcaaaagccattaagagtc	U22516	80047	ttctatagactcagatgggaacttg	U42384	122651	gcaaaccatgctcttttctgccaca	AA162710
37444	tgactcagcaccatgacgccaagcc	U22516	80048	tttttcactgagaaacagttgtatt	U42384	122652	catgctcttttctgccacacaaact	AA162710
37445	tcaacacctttatccatggcaacaa	U22516	80049	agcaaaactatcattccattaggag	U42384	122653	gctcttttctgccacacaaactcga	AA162710
37446	acatcaaggccatctgtggagcgaa	U22516	80050	actatcattccattaggagaaatct	U42384	122654	ttctgccacacaaactcgaaaagtt	AA162710
37447	tgagcaagtctccctccaggtcac	U22516	80051	tttctgttggacccagatggtagaa	U42384	122655	tttgtacgtgggtgttgatgacgac	AA162710
37448	ccttccaggtcaccacttgcaagca	U22516	80052	tttccaaagcagctgagaaaggctt	U42384	122656	agaggttgccacagtggatggccttt	AA162710
37449	aggtcaccacttgcaagcacacagg	U22516	80053	atatggaacatttcctgtgagcaca	U42384	122657	ggttgccacagtggatggccttgag	AA162710
37450	catgccagtaccgagcctctgcagg	U22516	80054	tcctgtgagcacagaactgaacttt	U42384	122658	aaagtgctgtccttctgcagggtca	M65255
37451	agtaccgagcctctgcagggttcag	U22516	80055	ctcatgcccgtaatcctcagagcgc	U42385	122659	ttcaggtgcctcccagaacttgaga	M65255
37452	acgacacagcccaggtggatcacag	AA016691	80056	atgcccgtaatcctcagagcgctaa	U42385	122660	aaatcaagcgctacgaatcgcagct	M65255
37453	cagcccaggtggatcacaggttcat	AA016691	80057	gataatggacctacacaatgttttg	U42385	122661	agcgctacgaatcgcagcttcggga	M65255
37454	tggcagccttggcttcggcttcctg	AA016691	80058	tgtttatttaccctgtctctaatag	U42385	122662	acgaatcgcagcttcgggacctcga	M65255
37455	gtcctcgtcctttcggagacacagc	AA016691	80059	ttatttaccctgtctctaatagtgg	U42385	122663	ttcgggacctcgagcggcagtcaga	M65255
37456	ctcgtcctttcggagacacagctgg	AA016691	80060	accctgtctctaatagtggtattct	U42385	122664	acctcgagcggcagtcagagcaaca	M65255
37457	gtcctttcggagacacagctggagc	AA016691	80061	taatttgatcacaatctagtcaatg	U42385	122665	ttgcccaactgcagcaggagttcca	M65255
37458	acacagctggagcagtgtggccttc	AA016691	80062	tttgatcacaatctagtcaatgcca	U42385	122666	agttccagcgggcccaagctgcaaa	M65255
37459	cagtgtggccttcaacctcttcatg	AA016691	80063	gatcacaatctagtcaatgccagct	U42385	122667	agcgggcccaagctgcaaaggctcc	M65255
37460	ggccttcaacctcttcatgttggcc	AA016691	80064	aatctagtcaatgccagctgttaat	U42385	122668	cccaagctgcaaaggctcctgggaa	M65255
37461	caacctcttcatgttggccctcggg	AA016691	80065	ctagtcaatgccagctgttaatatt	U42385	122669	ctgcaaaggctcctgggaaagcctg	M65255
37462	aatcttgctggaccatttcctgggc	AA016691	80066	cactcatatttttgtgcatatatta	U42385	122670	ccttcaccatggctgaactgatcca	M65255
37463	ccaggtcctccaatggaacaagatc	AA016691	80067	gtaatcctcagagcgctaatgtgat	U42385	122671	atcaacagctgcagaaggacttgag	M65255
37464	atcacaggttcatggcgagctatca	AA016691	80068	gttgtgtcatacaggccctgagttg	U42385	122672	gtaaatctatgtcagggaggcagaa	M65255
37465	acaggttcatggcgagctatcaagt	AA016691	80069	tacaggccctgagttggacatttct	U42385	122673	agctggccctgctggatggatccaa	M65255
37466	gctatcaagtcctccggaatttgac	AA016691	80070	aggccctgagttggacatttctcaa	U42385	122674	agcttctgggacccgtgcttgtcaa	M65255
37467	tcctccggaatttgaccctcatggc	AA016691	80071	ggacatttctcaaacttatatatgt	U42385	122675	tgggacccgtgcttgtcaaacagga	M65255
37468	tccggaatttgaccctcatggcagc	AA016691	80072	ttctcaaacttatatatgtggtgtt	U42385	122676	tagactacatcacagcagaaatcaa	M65255

TABLE 1

SEQ ID NO	sequence	DBAxnID
37469	atttgaccctcatggcagccttggc	AA016691
37470	tgaccctcatggcagccttggcttc	AA016691
37471	ccctcatggcagccttggcttcggc	AA016691
37472	gaatctgagctctttggacggacga	AA008566
37473	atctgagctctttggacggacgatt	AA008566
37474	ttccaggccagtctggtcagatgat	AA008566
37475	ttctgggaagactcttgaggagaat	AA008566
37476	gaaggacccgagcctcccaaagctg	AA008566
37477	cgagcctcccaaagctgaagcccag	AA008566
37478	cctcccaaagctgaagcccaggagg	AA008566
37479	tcccaaagctgaagcccaggagga	AA008566
37480	cggtcaaatcctcaggtgtacatgg	AA008566
37481	gtcaaatcctcaggtgtacatggac	AA008566
37482	aatcctcaggtgtacatggacatca	AA008566
37483	tcctcaggtgtacatggacatcaag	AA008566
37484	gagctctttggacggacgattcgtg	AA008566
37485	gctctttggacggacgattcgtgtc	AA008566
37486	tttggacggacgattcgtgtcaatt	AA008566
37487	attcgtgtcaatttggccaagccaa	AA008566
37488	gtcaatttggccaagccaatgagaa	AA008566
37489	caatttggccaagccaatgagaatt	AA008566
37490	attaaagagggctcttccaggccag	AA008566
37491	tcttccaggccagtctggtcagatg	AA008566
37492	tcttcctgttgggtctggttgtgat	U22519
37493	ccactctgtctcaggatgactccag	U22519
37494	tcaaggccatctgtggaaagaaagg	U22519
37495	tcaccacttgcacacacaaaggaag	U22519
37496	ctccatgcaggtaccgagcctctaa	U22519
37497	ctgtccactttgatgagtcttttat	U22519
37498	cttttatcagtccatagacagcaga	U22519
37499	tcagtccatagacagcagacccctg	U22519
37500	cagcagacccctggcacaggcctag	U22519
37501	tcacagccaaaatcactgttttaac	U22519
37502	tcactgttttaacgttcactgtcac	U22519
37503	atctgaaatatacttctcctgattt	U22519
37504	tgtctcaggatgactccaggtacac	U22519
37505	aggatgactccaggtacacaaaatt	U22519
37506	ctcagcactatgatgccaagccaaa	U22519
37507	actatgatgccaagccaaaaggccg	U22519
37508	gaaagctaacctctttctgcaaaga	U22519
37509	atgtcaacacctttatccatgacac	U22519
37510	atgacaccaagaacaacatcaaggc	U22519
37511	ccaagaacaacatcaaggccatctg	U22519
37512	tcagcccggaagttggccaaccaga	D82866
37513	ctggtcctgagcatgcagtcaagtc	D82866
37514	catggcatgtctcaccacgatcctg	D82866
37515	atgtctcaccacgatcctgttgcta	D82866
37516	caccacgatcctgttgctacatcag	D82866
37517	gatcctgttgctacatcagagtgta	D82866
37518	attttaatggccccatcttctcact	D82866
37519	gcctcttcactgccataacttgttt	D82866
37520	tcactgccataacttgtttgtaaaa	D82866
37521	ttctccattaaacttctactgagca	D82866
37522	attaaacttctactgagcaaatggt	D82866
37523	cttctactgagcaaatggttaataa	D82866
37524	atgcagtcaagtcaacgccggcgca	D82866
37525	accctgcaccagaatggtaatgtgt	D82866
37526	ggccactgcaacccatgagcatcca	D82866
37527	tgcaacccatgagcatccaggtgat	D82866
37528	ccatgagcatccaggtgatcccccg	D82866
37529	gtacagcatgtgtccactccaagac	D82866
37530	ccaagacctgcaggccgggagtcag	D82866
37531	cctgcaggccgggagtcaggattcc	D82866
37532	ttgctgccaatgagactgttcctga	AA008624
37533	agactgttcctgagctgattaattc	AA008624
37534	tggcaatttcatttcccaatctgac	AA008624
37535	caatttcatttcccaatctgacgtc	AA008624
37536	tttcatttcccaatctgacgtcaga	AA008624
80073	attatttcatctggagggaagtggc	U42385
80074	aatactgactgatgcatagtagaaa	U42385
80075	ttgaccctcaagtcactgtagcttt	U42386
80076	gaccctcaagtcactgtagctttag	U42386
80077	agttgaactgcacagtctcctttgt	U42386
80078	ttgaactgcacagtctcctttgttg	U42386
80079	actgcacagtctcctttgttgttgt	U42386
80080	tgcacagtctcctttgttgttgtca	U42386
80081	cagtctcctttgttgttgtcaattg	U42386
80082	taaagttgtgctcttgcctcgtgcc	U42386
80083	aagttgtgctcttgcctcgtgccaa	U42386
80084	tgctcttgcctcgtgccaatatgta	U42386
80085	cttgcctcgtgccaatatgtacata	U42386
80086	cctcgtgccaatatgtacataactg	U42386
80087	ctcaagtcactgtagctttagtagt	U42386
80088	caagtcactgtagctttagtagttg	U42386
80089	tttagatgctagcactgcatgtgct	U42386
80090	tagatgctagcactgcatgtgctgt	U42386
80091	gatgctagcactgcatgtgctgtgc	U42386
80092	agcactgcatgtgctgtgcatattc	U42386
80093	cactgcatgtgctgtgcatattctg	U42386
80094	ctgcatgtgctgtgcatattctggt	U42386
80095	ttcctcaggactgatgagtttcagc	AA097562
80096	gagtttcagcaaaccttccttccag	AA097562
80097	ctcctggtatacttccaccagaggc	AA097562
80098	ctggtatacttccaccagaggcttc	AA097562
80099	gtatacttccaccagaggcttccag	AA097562
80100	ttccaccagaggcttccagaagtgc	AA097562
80101	caccagaggcttccagaagtgcttc	AA097562
80102	cttccagaagtgcttcagtcccaga	AA097562
80103	cagtcccagaccttcacagtcaaat	AA097562
80104	tcccagaccttcacagtcaaatatc	AA097562
80105	accttcacagtcaaatatcatcaca	AA097562
80106	acagtcaaatatcatcacaatggtt	AA097562
80107	tttcagcaaaccttccttccagctg	AA097562
80108	gctgttacttcccaacaccacgatc	AA097562
80109	caacaccacgatcttccttcgtgtg	AA097562
80110	ccttcgtgtgtcctcactcaggaat	AA097562
80111	gagattgtagcccaccgggaacagt	AA097562
80112	cagtttcgtggcttttacaatgagc	AA097562
80113	tttcgtggcttttacaatgagcatg	AA097562
80114	tttcagggtctctgggtaattctct	AA097562
80115	gaaagatccctatgaatgtaatcag	AA097579
80116	aagcctttgcatatgactaatcttt	AA097579
80117	agcagtcatcttcaaacccataaag	AA097579
80118	cagtcatcttcaaacccataaagta	AA097579
80119	gtcatcttcaaacccataaagtact	AA097579
80120	tcttcaaacccataaagtactacat	AA097579
80121	taaagtactacatactggagagact	AA097579
80122	gtgataatgcctcttcacaacagag	AA097579
80123	gataatgcctcttcacaacagagag	AA097579
80124	atgcctcttcacaacagagaggtct	AA097579
80125	gcctcttcacaacagagaggtctcc	AA097579
80126	ctcttcacaacagagaggtctccaa	AA097579
80127	atatgactaatcttttgggatgcat	AA097579
80128	acgttaccaacataatcatagtctt	AA097579
80129	gttaccaacataatcatagtcttaa	AA097579
80130	taccaacataatcatagtcttaaag	AA097579
80131	atcatagtcttaaagcctttgcaga	AA097579
80132	tagtcttaaagcctttgcagaaagc	AA097579
80133	gtcttaaagcctttgcagaaagcag	AA097579
80134	cttaaagcctttgcagaaagcagtc	AA097579
80135	agtgtctctctttcaatgccatcat	X66118
80136	ctttcaatgccatcatggaagagct	X66118
80137	tcatgcccacgacacatatttggag	X66118
80138	tgcccacgacacatatttggaggac	X66118
80139	atatgtttccacatatctttatcca	X66118
80140	tgtttccacatatctttatccataa	X66118
122677	acatcacagcagaaatcaagcgcta	M65255
122678	tggctccagctcaggaggagcagga	X74784
122679	aggttgtggctcaggtgtgaccttc	X74784
122680	atactgtgttctgggaaagaatctg	X74784
122681	tgtgtcttcaagccgttgtcccact	X74784
122682	ctctcacattgtttacctggcatcc	X74784
122683	cctcccagatggcgatgtgctgagg	X74784
122684	tgtgctgaggaccccagggtagcct	X74784
122685	tgtacatagcctcttgaatggactc	X74784
122686	tagcctcttgaatggactctgcttt	X74784
122687	tggactctgctttctgagtgttggg	X74784
122688	actctgctttctgagtgttggggtc	X74784
122689	tgttggggtctgggtctctgcataa	X74784
122690	tggctcaggtgtgaccttctccttt	X74784
122691	tgtgaccttctcctttagatagaga	X74784
122692	gattccagaatgtcagctgttatct	X74784
122693	tcagctgttatctctgtatctctaa	X74784
122694	atctctgtatctctaactctgatta	X74784
122695	gtatctctaactctgattaacccca	X74784
122696	aatatttgtaatccacctgatgtga	X74784
122697	gatgtctcttagcaattagagccag	X74784
122698	gtcgacctagccaagatcctgagtg	M36120
122699	gacctagccaagatcctgagtgaga	M36120
122700	agcgtgatcagcggttttgaagccc	M36120
122701	agcgacgtgcgtgccgacatagagc	M36120
122702	gtgcgtgccgacatagagcgccaga	M36120
122703	tataagcagctcatggacatcaagt	M36120
122704	aagcagctcatggacatcaagtcca	M36120
122705	gacatcaagtccaggctggagcagg	M36120
122706	caggaagcccactacaacaatctgc	M36120
122707	gaagcccactacaacaatctgccca	M36120
122708	aaggccatctgagctaccagcgaga	M36120
122709	tccctcgacttgtcaataaaactat	M36120
122710	gaagccacctaccttgctcggattg	M36120
122711	tgtcaataaaactatcctccaaggg	M36120
122712	acctaccttgctcggattgaggagc	M36120
122713	gtcgccgtccactctgagcagatcc	M36120
122714	gccgtccactctgagcagatccaga	M36120
122715	gtccactctgagcagatccagataa	M36120
122716	ggagtccagctgtcacagatccaga	M36120
122717	cagctgtcacagatccagagcgtga	M36120
122718	atccagagcgtgatcagcggttttg	M36120
122719	gtcagtacagcaggtgaccgagctg	W34479
122720	cagtacagcaggtgaccgagctgac	W34479
122721	gggtcatcagcagcatcgacagaag	W34479
122722	ggtcatcagcagcatcgacagaaga	W34479
122723	tcatcagcagcatcgacagaagacg	W34479
122724	catcagcagcatcgacagaagacgt	W34479
122725	tcagcagcatcgacagaagacgtct	W34479
122726	tcgacagaagacgtctgcggacggc	W34479
122727	gatcagatggtccgagcctaccggg	W34479
122728	gtccgagcctaccgggagagatcga	W34479
122729	tccgagcctaccgggagagatcgaa	W34479
122730	cgagcctaccgggagagatcgaaag	W34479
122731	agtacagcaggtgaccgagctgaca	W34479
122732	gagcctaccgggagagatcgaaaga	W34479
122733	tgaccgagctgacaaccactgtcca	W34479
122734	gaccgagctgacaaccactgtccaa	W34479
122735	ccgagctgacaaccactgtccaatg	W34479
122736	cgagctgacaaccactgtccaatga	W34479
122737	agctgacaaccactgtccaatgagg	W34479
122738	gctgacaaccactgtccaatgagga	W34479
122739	tgacaaccactgtccaatgaggaac	W34479
122740	cacaagcaatgcatgcggcaagccc	M27734
122741	caatgcatgcggcaagcccattggg	M27734
122742	aacctaatggccagagcatctctgg	M27734
122743	ctaatggccagagcatctctgggat	M27734
122744	atggccagagcatctctgggatgac	M27734

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37537	ccaatctgacgtcagatggctatcc	AA008624	80141	tccataactccagtcatggatagag	X66118	122745	agagcatctctgggatgacagtccc	M27734
37538	atctgacgtcagatggctatcctgt	AA008624	80142	actccagtcatggatagagggagaa	X66118	122746	tgacagtcccagaatctgtgtcttc	M27734
37539	cagatggctatcctgtactgtaccc	AA008624	80143	tttttaaagctcacatagatattac	X66118	122747	cagtcccagaatctgtgtcttcagc	M27734
37540	atcctgtactgtacccaactggatg	AA008624	80144	ttcttttcctccaataaattgctat	X66118	122748	gcctgcctcctattcttcattggac	M27734
37541	tactgtacccaactggatggtcatc	AA008624	80145	tcctccaataaattgctatgtgtgc	X66118	122749	ctattcttcattggactgctcagag	M27734
37542	ggtcatcttctgataatgtaaactg	AA008624	80146	ttgctatgtgtgctttctaaataat	X66118	122750	ggactgctcagaggactctgaagtg	M27734
37543	taaactgcagacctcgaagccttga	AA008624	80147	tcaatgccatcatggaagagctggg	X66118	122751	ggactctgaagtgccagtggccctc	M27734
37544	ctgttcctgagctgattaattccac	AA008624	80148	agggcaaatcttctttcacaagtat	X66118	122752	ccgctgtgggccatgcaactcctttt	M27734
37545	gcagacctcgaagccttgaggaccc	AA008624	80149	cttctttcacaagtatccttacttg	X66118	122753	gccatgcaactcctttgtacgctag	M27734
37546	tgattaattccaccaaggacattgg	AA008624	80150	caagtatccttacttgtcatcagag	X66118	122754	atgcaactcctttgtacgctagaac	M27734
37547	aaattaatgtcttctacacgattag	AA008624	80151	gtatccttacttgtcatcagagacg	X66118	122755	caactcctttgtacgctagaacctg	M27734
37548	ttaatgtcttctacacgattagaaa	AA008624	80152	tccttacttgtcatcagagacgaac	X66118	122756	gacactgggcttagcactccagatg	M27734
37549	atgtcttctacacgattagaaaaag	AA008624	80153	agactgtggcgtgatccaagaacac	X66118	122757	cttagcactccagatggctgacctg	M27734
37550	atttcccaatgccagaacttcggct	AA008624	80154	cgtgatccaagaacacgcctgtaaa	X66118	122758	actccagatggctgacctggttctg	M27734
37551	caatgccagaacttcggctggcaat	AA008624	80155	tttcttcgcctaattgaacaataat	Z11974	122759	ggctgacctggttctggttccacaa	M27734
37552	cagaacttcggctggcaatttcatt	AA008624	80156	caataattgctcatttactatcctg	Z11974	122760	ccaccatttaaccgcctcttgatca	L16919
37553	cctgttccatttgcttatccaaatc	Z72000	80157	aggacctcccagagatatgttatac	Z11974	122761	cgcctcttgatcacagtgctaaata	L16919
37554	ccatttgcttatccaaatccaggaa	Z72000	80158	taaccccagattgaataagaatgta	Z11974	122762	acccttcagctctaagcacttgtcc	L16919
37555	ttagcacctcactagctcctttcat	Z72000	80159	attcaggtctttttcagcagtcctg	Z11974	122763	cagctctaagcacttgtccagcaat	L16919
37556	gcacctcactagctcctttcattgt	Z72000	80160	gtctttttcagcagtcctgattcat	Z11974	122764	taagcacttgtccagcaatgcacaa	L16919
37557	cactagctcctttcattgtgttgat	Z72000	80161	ttcagcagtcctgattcatgtcagt	Z11974	122765	gcctcagctgctgtgacccaaggat	L16919
37558	tagctcctttcattgtgttgatgtc	Z72000	80162	agtcctgattcatgtcagttattga	Z11974	122766	catcagggcttcctcatctccttttc	L16919
37559	ccttcctatatactaagagttcata	Z72000	80163	gattcatgtcagttattgagaactg	Z11974	122767	ctcatctccttttccatgtgccaacg	L16919
37560	tatattgtgcattgactctgttgga	Z72000	80164	gtatttatccacatgtagaataata	Z11974	122768	tcctttccatgtgccaacgcatttc	L16919
37561	gtgcattgactctgttggatacaaa	Z72000	80165	tttgtccccaggcaaggtttgacag	Z11974	122769	gccaacgcatttcgtgtctgagaaa	L16919
37562	cgatgtgttctagcacctttgagca	Z72000	80166	caaatgtgttctgtgttctgttgta	Z11974	122770	gcatttcgtgtctgagaaaattccc	L16919
37563	ctagcacctttgagcatttacttta	Z72000	80167	ttgctcatttactatcctggcaaga	Z11974	122771	catacctttatgaagctcaaagaaa	L16919
37564	gcacctttgagcatttactttatgg	Z72000	80168	atttactatcctggcaagattagag	Z11974	122772	ttgatcacagtgctaaatagtgtat	L16919
37565	gcttatccaaatccaggaaggaaga	Z72000	80169	tatcctggcaagattagagaaacaa	Z11974	122773	gaggacatggccctgggtgttatta	L16919
37566	tatccaaatccaggaaggaagaata	Z72000	80170	tgaatacacagcactagcgtcttaa	Z11974	122774	cttaacaattccattttacactctg	L16919
37567	ccattccgcccaattccagtgacat	Z72000	80171	cacagcactagcgtcttaacactgc	Z11974	122775	attttacactctgtccaacttgtct	L16919
37568	cgcccaattccagtgacatgggtac	Z72000	80172	taggtctcatgtcaaccctgcagat	Z11974	122776	cactctgtccaacttgtctttgggt	L16919
37569	ccaattccagtgacatgggtacctc	Z72000	80173	tcatgtcaaccctgcagatttcaag	Z11974	122777	gtccaacttgtctttgggtcaccag	L16919
37570	cactggattaatcctcacatgttag	Z72000	80174	attttcaggacctcccagagatatg	Z11974	122778	ttgcaagtcactggcccagttgcaa	L16919
37571	aatcctcacatgttagcacctcact	Z72000	80175	agaacacctgcgagacaactccatg	AA097621	122779	gtcactggcccagttgcaacccttc	L16919
37572	atgttagcacctcactagctccttt	Z72000	80176	gcgagacaactccatgaagaaggag	AA097621	122780	ccaatgggcaccaagtccattttgc	M55669
37573	cctggcctcccaacgttcattgtct	AA008655	80177	agcatcatcatcacatgcacaacca	AA097621	122781	attttgctgagccggcgtcccagag	M55669
37574	ggcctcccaacgttcattgtcttgg	AA008655	80178	atcatcatcacatgcacaaccaaca	AA097621	122782	gattaccagtctaagctggccatgt	M55669
37575	ttctggaagccttcctgaacatcta	AA008655	80179	atcacatgcacaaccaacatggaaa	AA097621	122783	aagctggccatgtccaagaagcagg	M55669
37576	tggaagccttcctgaacatctaaat	AA008655	80180	acatgcacaaccaacatggaaacac	AA097621	122784	agcctgcaaagtatcctgagaaaga	M55669
37577	aagccttcctgaacatctaaattgt	AA008655	80181	tatgaacatcaagctgccacaccat	AA097621	122785	cttgctccacagttctggcagccac	M55669
37578	ccttcctgaacatctaaattgtact	AA008655	80182	gaacatcaagctgccacaccatgag	AA097621	122786	acacaagcaatcccagcctggtctc	M55669
37579	acatctaaattgtactctgcacctc	AA008655	80183	caagctgccacaccatgagagaagc	AA097621	122787	caagctttgctcgctgtcaatgatt	M55669
37580	tctaaattgtactctgcacctctgc	AA008655	80184	gctgccacaccatgagagaagcacg	AA097621	122788	ttgctcgctgtcaatgattattttc	M55669
37581	aaattgtactctgcacctctgcatc	AA008655	80185	gatcaaacggctgcgcattcagaag	AA097621	122789	tattttcactacaatggaagcaacc	M55669
37582	accctaccacagaggtcctgacaga	AA008655	80186	gctgcgcattcagaagcgagagcac	AA097621	122790	tattctgtagcccaaatatagcgtt	M55669
37583	ctaccacagaggtcctgacagaaag	AA008655	80187	agacaactccatgaagaaggagggc	AA097621	122791	caaatatagcgttcctaccaacatc	M55669
37584	ccacagaggtcctgacagaaagtac	AA008655	80188	gtgtacacagattctgcaccggcct	AA097621	122792	cggcgtcccagagacgacgactcca	M55669
37585	ccaacgttcattgtcttggtatcta	AA008655	80189	tacacagattctgcaccggcctcac	AA097621	122793	cccagagacgacgactccaaggtgg	M55669
37586	ttcattgtcttggtatctaacccat	AA008655	80190	tgtgagatcctcacactgagcatca	AA097621	122794	ggcagtgcaccacagaaggggttgc	M55669
37587	taaccctgcactctgaaaacctctc	AA008655	80191	gagatcctcacactgagcatcatca	AA097621	122795	gaatggaccctgatgcttcacggca	M55669
37588	tgcactctgaaaacctctctgcact	AA008655	80192	atcctcacactgagcatcatcatca	AA097621	122796	accctgatgcttcacggcacacaga	M55669
37589	actctgaaaacctctctgcacttct	AA008655	80193	ctcacactgagcatcatcatcacat	AA097621	122797	atgcttcacggcacacagagcgccc	M55669
37590	acctctctgcacttctggaagcctt	AA008655	80194	ctgagcatcatcatcacatgcacaa	AA097621	122798	acacagagcgccccatacatcgatc	M55669
37591	tctctgcacttctggaagccttcct	AA008655	80195	gatagaactctccagcacgtaacgg	AA097626	122799	agcgccccatacatcgatcaggtgg	M55669
37592	ctgcacttctggaagccttcctgaa	AA008655	80196	tagaactctccagcacgtaacggaa	AA097626	122800	tcatgtctttgtttctgcatgagaa	D13664
37593	ctccacagcacagacagcactcag	AA008531	80197	ggaatcctgtacagcttgtgctcga	AA097626	122801	tgtctttgtttctgcatgagaaata	D13664
37594	ccacagcacagacagcactcagga	AA008531	80198	gaatcctgtacagcttgtgctcgag	AA097626	122802	tttctcatgcaatgtgggtttcctg	D13664
37595	caaaggccgcaacaatgcggttcga	AA008531	80199	atcctgtacagcttgtgctcgagta	AA097626	122803	ttttacacttgatttatatcctcga	D13664
37596	ggccgcaacaatgcggttcgaaaca	AA008531	80200	tcctgtacagcttgtgctcgagtaa	AA097626	122804	acttgatttatatcctcgagatgat	D13664
37597	gccgcaacaatgcggttcgaaacaa	AA008531	80201	ctgtacagcttgtgctcgagtaaat	AA097626	122805	tgatttatatcctcgagatgattgt	D13664
37598	ggtgctgaaccctggactctaaaat	AA008531	80202	tgtacagcttgtgctcgagtaaatg	AA097626	122806	tttatatcctcgagatgattgtcat	D13664
37599	gtgctgaaccctggactctaaaata	AA008531	80203	tacagcttgtgctcgagtaaatgct	AA097626	122807	ttgtcataagcttcttgcaatacaa	D13664
37600	gctgaaccctggactctaaaataag	AA008531	80204	acagcttgtgctcgagtaaatgcta	AA097626	122808	taagcttcttgcaatacaaatgttt	D13664
37601	tgaaccctggactctaaaataagct	AA008531	80205	agcttgtgctcgagtaaatgctagt	AA097626	122809	aatgttttctctcaaacatttcaat	D13664
37602	ctctaaaataagcttcgcagtaagg	AA008531	80206	agccaaaatcggagcaagggtgcga	AA097626	122810	acatttcaataaaaccattcttcag	D13664
37603	ataagcttcgcagtaaggagacaac	AA008531	80207	agaactctccagcacgtaacggaat	AA097626	122811	cattcttcaggtataaagagaatta	D13664
37604	taagcttcgcagtaaggagacaaca	AA008531	80208	actctccagcacgtaacggaatcct	AA097626	122812	aaatgatagctagtctcctgtgggg	D13664

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37605	cacagcacagacagacactcaggag	AA008531	80209	tctccagcacgtaacggaatcctgt	AA097626	122813	atataggaccatgcagggattttat	D13664
37606	acagcacagacagacactcaggagc	AA008531	80210	ctccagcacgtaacggaatcctgta	AA097626	122814	tagaatccaccaaagaacatcattg	D13664
37607	cagcacagacagacactcaggagcc	AA008531	80211	ccagcacgtaacggaatcctgtaca	AA097626	122815	ccaccaaagaacatcattgtgactg	D13664
37608	gcacagacagacactcaggagccag	AA008531	80212	cagcacgtaacggaatcctgtacag	AA097626	122816	gggtccatacagctaagtctttgca	D13664
37609	cacagacagacactcaggagccagc	AA008531	80213	aacggaatcctgtacagcttgtgct	AA097626	122817	atacagctaagtctttgcacagtaa	D13664
37610	acagacagacactcaggagccagcc	AA008531	80214	acggaatcctgtacagcttgtgctc	AA097626	122818	ttatacaacatgcaaacaaacctac	D13664
37611	cagacagacactcaggagccagcca	AA008531	80215	agcaccaagccacctgttgcttgta	D85037	122819	tgttacatatttctcatgcaatgtg	D13664
37612	agacactcaggagccagccagccag	AA008531	80216	aaggtgtcgcctgttactgaattgg	D85037	122820	gagtgatccacactaaggtgactat	U44725
37613	ataagaagtgctctgctgagaagaa	W91398	80217	aagccttttgactatctgaggacaa	D85037	122821	tgatccacactaaggtgactattta	U44725
37614	agtgctctgctgagaagaagtcaga	W91398	80218	tttgactatctgaggacaaggactc	D85037	122822	agtagtctaggcattcctatgtgat	U44725
37615	taatgttccagaccttcattgggcc	W91398	80219	aatcatttgtgccatttaggatttg	D85037	122823	agtctaggcattcctatgtgattat	U44725
37616	gttccagaccttcattgggcctgga	W91398	80220	gccaaaggctacagccaagccctgg	D85037	122824	ctaggcattcctatgtgattattgt	U44725
37617	cagaccttcattgggcctggaggaa	W91398	80221	ggctacagccaagccctggaactca	D85037	122825	tgattattgtgtctctctaccactg	U44725
37618	gaccttcattgggcctggaggaaat	W91398	80222	cggcctgatgttttccccatacagc	D85037	122826	atttatatggcttcacagatatatt	U44725
37619	ccttcattgggcctggaggaaatat	W91398	80223	gatgttttccccatacagctagaaa	D85037	122827	tatatggcttcacagatatattgct	U44725
37620	ttcattgggcctggaggaaatatgc	W91398	80224	ttccccatacagctagaaacaggag	D85037	122828	tattgctagttcagtcatagattgg	U44725
37621	aatatgcctggatatctgagaccag	W91398	80225	atttaagtgcacctggttgagctct	D85037	122829	agtgtatgtccaacactattctaaa	U44725
37622	agaccagaaactgcacagggaattt	W91398	80226	gtgcacctggttgagctctgagtaa	D85037	122830	gtatgtccaacactattctaaatag	U44725
37623	gaaattgccttttgctgctgcccag	W91398	80227	tcgcctgttactgaattggcaaacg	D85037	122831	tgtccaacactattctaaatagttt	U44725
37624	aattgccttttgctgctgcccagat	W91398	80228	gaattggcaaacgccttcttattga	D85037	122832	tccacactaaggtgactatttatga	U44725
37625	aaagtgtcttggcccagcttgataa	W91398	80229	gcaaacgccttcttattgaatcttc	D85037	122833	ttgtaaatgcacaactgccatctcc	U44725
37626	ttgccttttgctgctgcccagattg	W91398	80230	gccttcttattgaatcttcaccatc	D85037	122834	taaatgcacaactgccatctccaaa	U44725
37627	agtgtcttggcccagcttgataact	W91398	80231	ttattgaatcttcaccatcctgtgt	D85037	122835	ttcatttactcaatttctaggctaa	U44725
37628	tgtcttggcccagcttgataactat	W91398	80232	atggctccagagttgttgataaact	D85037	122836	tttccaatcaaaattcctatagtct	U44725
37629	ttggcccagcttgataactatggac	W91398	80233	ttccagggccaccacggtgtgaagg	D85037	122837	gtcttattttccagtagtctaggca	U44725
37630	acaagaacttgcggatcttttgtg	W91398	80234	aactccaagccttttgactatctga	D85037	122838	ttattttccagtagtctaggcattc	U44725
37631	acttgcggatcttttgtgaactat	W91398	80235	aacccttccggctgttgtcacagct	AA153300	122839	ttttccagtagtctaggcattccta	U44725
37632	ttaacttaatgttccagaccttcat	W91398	80236	ccttccggctgttgtcacagctcac	AA153300	122840	ctctaccagtgccttgagtgtgaca	W34634
37633	cttaatgttccagaccttcattggg	W91398	80237	cccagcaccagaagatccacagtgg	AA153300	122841	taccagtgccttgagtgtgacaagt	W34634
37634	gtacccactgcagaggaagaaccct	U19118	80238	agcaccagaagatccacagtggaac	AA153300	122842	aatgtgcggcccttcgtgtgcactg	W34634
37635	cagcagctttgtccttggctacaaa	U19118	80239	accagaagatccacagtggaacctg	AA153300	122843	gagttcagccagatccatcacctca	W34634
37636	tccagagcatttcagctgggagatc	U19118	80240	tccacagtggaacctgacaagctct	AA153300	122844	ttcagccagatccatcacctcaagc	W34634
37637	gcatttcagctgggagatctccctc	U19118	80241	gtggaacctgacaagctctacacca	AA153300	122845	agccagatccatcacctcaagcagc	W34634
37638	actctggctactgttaaaatcctga	U19118	80242	gaacctgacaagctctacaccaagt	AA153300	122846	tctctcactcacaagggtgtgtgag	W34634
37639	atcctgatgtttctgtggaatcctc	U19118	80243	gacaagctctacaccaagttgtaac	AA153300	122847	cagttatgactgtctgcggccagtt	W34634
37640	atgtttctgtggaatcctcagtgtt	U19118	80244	aagctctacaccaagttgtaacatg	AA153300	122848	ttatgactgtctgcggccagttagt	W34634
37641	ctgtggaatcctcagtgtttaatcc	U19118	80245	ctctacaccaagttgtaacatgtca	AA153300	122849	tgactgtctgcggccagttagttca	W34634
37642	aatcctcagtgtttaatcccactca	U19118	80246	tacaccaagttgtaacatgtcagga	AA153300	122850	ctgtctgcggccagttagttcacgc	W34634
37643	ttaatcccactcaatagtatcatta	U19118	80247	tccggctgttgtcacagctcactca	AA153300	122851	tctgcggccagttagttcacgctgc	W34634
37644	atcattacagttttctgtaagagaa	U19118	80248	tgttgtcacagctcactcagcaccg	AA153300	122852	tgtgacaagtccttccactaccgca	W34634
37645	ccagtattcctagcctgtcaacata	U19118	80249	tgtcacagctcactcagcaccggag	AA153300	122853	ttccactaccgcagccagctacaaa	W34634
37646	ctacaaactgttacaacgtcacaca	U19118	80250	tccacaccggcgagaagcttatgaa	AA153300	122854	agccagctacaaaaccacatgctca	W34634
37647	actgttacaacgtcacacaatgaag	U19118	80251	acaccggcgagaagcttatgaatgc	AA153300	122855	cagctacaaaaccacatgctcaagc	W34634
37648	gactccatactcagtgacagggcag	U19118	80252	tagactttattcatttctttcagca	AA153300	122856	ctacaaaaccacatgctcaagcatc	W34634
37649	atactcagtgacagggcaggaagag	U19118	80253	actttattcatttctttcagcacca	AA153300	122857	aaccacatgctcaagcatcagaatg	W34634
37650	gccaaagataaccacagccacagcc	U19118	80254	ttattcatttctttcagcaccagag	AA153300	122858	cacatgctcaagcatcagaatgtgc	W34634
37651	cacagccacagcctgtggagaccag	U19118	80255	atgccatgaatgcggccgaaatcac	D87898	122859	atgctcaagcatcagaatgtgcggc	W34634
37652	cacagcctgtggagaccagggttgg	U19118	80256	actctctacgccacaggaactggta	D87898	122860	aaagcatttatgatctcttgaaatg	X06746
37653	aggcatctgcattgtgggatgttaa	U19118	80257	tcacagtgtgcatcgcaccgtgctg	D87898	122861	gtgttgcaagtgtcctctgtgcctt	X06746
37654	ctgtggcctagcacggctcaccaac	AA008687	80258	tgtgcatcgcaccgtgctgtacatg	D87898	122862	tatgctctgttttgtgacttaaaag	X06746
37655	tggcctagcacggctcaccaacatc	AA008687	80259	tcgcaccgtgctgtacatgtgcaga	D87898	122863	cctttgtagccaaatttcaggtgag	X06746
37656	ggccttcttactgaggattgaagct	AA008687	80260	tgtttccactgaggcagtttctggt	D87898	122864	tgtgcttcaatgtcactgccgctga	X06746
37657	cttcttactgaggattgaagctgcg	AA008687	80261	cactgaggcagtttctggtactcct	D87898	122865	gcttcaatgtcactgccgctgattt	X06746
37658	gaccagaaacatcatcccagggtat	AA008687	80262	ggcagtttctggtactcctatgcaa	D87898	122866	tcaatgtcactgccgctgatttgtt	X06746
37659	catcatcccagggtatacttgggca	AA008687	80263	ttctggtactcctatgcaatattac	D87898	122867	atgtcactgccgctgatttgtttgg	X06746
37660	catcccagggtatacttgggcacag	AA008687	80264	tactcctatgcaatattacttagct	D87898	122868	tcactgccgctgatttgtttggtta	X06746
37661	gttgcctctctgagaaaagcggcag	AA008687	80265	gaatcaactcaactgtcagtactga	D87898	122869	ctgccgctgatttgtttggttatta	X06746
37662	gtgcctagcggactgtctgtcagtc	AA008687	80266	actcaactgtcagtactgagaaggg	D87898	122870	attagctcttaatagttgtggagag	X06746
37663	cctagcggactgtctgtcagtcagg	AA008687	80267	ggctgtctaatcagctccggaacca	D87898	122871	aaccactaactggagttcagataat	X06746
37664	agcggactgtctgtcagtcagggta	AA008687	80268	ctaatcagctccggaaccagaagtg	D87898	122872	ttgcaagtgtcctctgtgccttgtg	X06746
37665	ctgtctgtcagtcagggtaccccgt	AA008687	80269	agctccggaaccagaagtgaaccag	D87898	122873	caagtgtcctctgtgccttgtgtga	X06746
37666	acggctcaccaacatctttgccagt	AA008687	80270	tcagctttcctctcatgtggcaaac	D87898	122874	gtgtcctctgtgccttgtgtgatgt	X06746
37667	tttcagacaccttcattaacttcta	AA008687	80271	ttcctctcatgtggcaaacgtgcga	D87898	122875	tctgtgccttgtgtgatgtgggcag	X06746
37668	gctcaccaacatctttgccagttct	AA008687	80272	actctgtggtcctgagtgccagaag	D87898	122876	gtgttaacagggtctgcatgtgtac	X06746
37669	caacatctttgccagttctcgggcc	AA008687	80273	gctgtctccatgggttggtcacagt	D87898	122877	gtacaggatgccttactatgggaac	X06746
37670	tcgggccttctcctggtctgggaag	AA008687	80274	tccatgggttggtcacagtgtgcat	D87898	122878	caggatgccttactatgggaacaga	X06746
37671	cttaacatctaccaccagagtggac	AA008687	80275	aaagcaggtacctgtcagtggctac	AA097604	122879	cactccttgggtttaagtatggctg	X06746
37672	aacatctaccaccagagtggacagt	AA008687	80276	acctgtcagtggctacctggcctca	AA097604	122880	gacctgagtgccaaggcttctctga	W34651

TABLE 1

SEQ ID NO	sequence	DBAxnID
37673	atctaccaccagagtggacagtccc	AA008687
37674	ctccacggccttcttactgaggatt	AA008687
37675	tggtacccttcttcttccacagaag	U19119
37676	tcttcttccacagaagccaggttac	U19119
37677	cctgtctcgattctaatgcattgtt	U19119
37678	gtctcgattctaatgcattgttcca	U19119
37679	ctaatgcattgttccactgagggac	U19119
37680	atgcattgttccactgagggacagg	U19119
37681	tgttccactgagggacagggacaag	U19119
37682	attcattgaccatgattcttagatt	U19119
37683	cattgaccatgattcttagatttgg	U19119
37684	ttgttttcagctattaaatgtgata	U19119
37685	atatgtccaaatcaattttcctctg	U19119
37686	tgtccaaatcaattttcctctgaaa	U19119
37687	tcttccacagaagccaggttacctt	U19119
37688	tccacagaagccaggttaccttaga	U19119
37689	ttcctagatccctatttctccacca	U19119
37690	gatccctatttctccaccagaaatc	U19119
37691	tatttctccaccagaaatcaagaga	U19119
37692	ttctccaccagaaatcaagagatac	U19119
37693	ttttagattctctgagaggagttaa	U19119
37694	tcccctgtctcgattctaatgcatt	U19119
37695	gagaactctgtgctgcgcagggaga	AA008547
37696	ctgcgtcacctgagcgaggtgctga	AA008547
37697	gccagctgtctaccacgatgacacc	AA008547
37698	agctgtctaccacgatgacacccca	AA008547
37699	tgtctaccacgatgacaccccagct	AA008547
37700	gctcggaaccttggtttgcacactc	AA008547
37701	aaccttggtttgcacactcaggagt	AA008547
37702	cttggtttgcacactcaggagtttc	AA008547
37703	actcaggagtttccctacacacctg	AA008547
37704	caggagtttccctacacacctgtgt	AA008547
37705	gagtttccctacacacctgtgtcca	AA008547
37706	tacacacctgtgtccaggggtacat	AA008547
37707	cacctgagcgaggtgctgaaggagc	AA008547
37708	gccttccagggagctctggggccag	AA008547
37709	ctgctgtgtcctatgaactttgtgc	AA008547
37710	ctgtgtcctatgaactttgtgcagc	AA008547
37711	tgtcctatgaactttgtgcagcttc	AA008547
37712	cctatgaactttgtgcagcttcggt	AA008547
37713	aactttgtgcagcttcggtcagacc	AA008547
37714	tcagaccccgtggccagctgtctac	AA008547
37715	gtggccagctgtctaccacgatgac	AA008547
37716	actattcaggcgaggctcaagctct	W83523
37717	tattcaggcgaggctcaagctctga	W83523
37718	ggcatgcacggctcaggcatctctc	W83523
37719	gctcaggcatctctcctttagtgga	W83523
37720	tcaggcatctctcctttagtggaat	W83523
37721	aggcatctctcctttagtggaatga	W83523
37722	gcatctctcctttagtggaatgagt	W83523
37723	ctctcctttagtggaatgagtggag	W83523
37724	ctcctgggcatccaccacgatgctg	W83523
37725	tgggcatccaccacgatgctgtcat	W83523
37726	acgatgctgtcatcttcctggcaga	W83523
37727	tgctgtcatcttcctggcagagcag	W83523
37728	cgaggctcaagctctgaggaagagc	W83523
37729	aggctcaagctctgaggaagagcct	W83523
37730	gctcaagctctgaggaagagcctcc	W83523
37731	tggtccacacctgcgctttgagatc	W83523
37732	gtccacacctgcgctttgagatcag	W83523
37733	ccacacctgcgctttgagatcagca	W83523
37734	acacctgcgctttgagatcagcagt	W83523
37735	atgatggcttcagtgtggaggcaga	W83523
37736	agatcgttgacaccaatggagctgg	U26589
37737	ttgacaccaatggagctggagatgc	U26589
37738	aacattatcttctgtctttgcccac	U26589
37739	atcttctgtctttgcccaccatgat	U26589
37740	tgtctttgcccaccatgattctcat	U26589
80277	tggtccttcagagccagtgacactg	AA097604
80278	tccttcagagccagtgacactggca	AA097604
80279	cggcctggtcatccagaagaatctt	AA097604
80280	catccagaagaatcttccagccgca	AA097604
80281	ccagaagaatcttccagccgcagtg	AA097604
80282	gaagaatcttccagccgcagtgacc	AA097604
80283	gaatcttccagccgcagtgaccacc	AA097604
80284	cgcagtgaccaccacactcaacatt	AA097604
80285	caccacactcaacattgtgcctatc	AA097604
80286	cacactcaacattgtgcctatcttg	AA097604
80287	tgtcagtggctacctggcctcagca	AA097604
80288	cagtggctacctggcctcagcagct	AA097604
80289	tggctacctggcctcagcagctggt	AA097604
80290	ctacctggcctcagcagctggtcct	AA097604
80291	cctggcctcagcagctggtccttca	AA097604
80292	ggcctcagcagctggtccttcagag	AA097604
80293	ctcagcagctggtccttcagagcca	AA097604
80294	agctggtccttcagagccagtgaca	AA097604
80295	agctcaaaaaccagaagtgatcaga	D87899
80296	ccccatgcattgtggcaaagccagc	D87899
80297	atagccagagcatctctagcctgga	D87899
80298	agagcatctctagcctggaaaagaa	D87899
80299	tctctagcctggaaaagaagaaagc	D87899
80300	ccagacaggtcctgttgttgccaac	D87899
80301	ctctccatacacccagaattctgtt	D87899
80302	ttctgttggacgtcagtgtcctttt	D87899
80303	tgtgccaaagctagcagctcacttg	D87899
80304	aaagctagcagctcacttgtagtgc	D87899
80305	atgcattattaccacgggtttgagg	D87899
80306	caaagttctgttagctcagactgac	D87899
80307	agccagctggcctttcccgtgtgca	D87899
80308	ctgttagctcagactgactcattta	D87899
80309	tttcccgtgtgcatgtgagcgtgtg	D87899
80310	agctttctcacaccgtgccttatac	D87899
80311	ctcacaccgtgccttatacacgcta	D87899
80312	cttatacacgctatacgaaaaccag	D87899
80313	atgctaccttccatttcactagctt	D87899
80314	atttcactagctttgatggtcattt	D87899
80315	tccctgggtgtgatagccagagcat	D87899
80316	cgattgagctatggccggcctcaac	AA097711
80317	agctatggccggcctcaactcactg	AA097711
80318	tcactggaggcagtgaagcgcaaga	AA097711
80319	cctgcagcagcaggcagacgacgca	AA097711
80320	ctgcagcagcaggcagacgacgcag	AA097711
80321	agacgacgcagaggatcgcgcgcaa	AA097711
80322	caaggcctgcagcgcgaactggatg	AA097711
80323	cctgcagcgcgaactggatggcgag	AA097711
80324	cacacccgtgcagacatctggaaga	AA097711
80325	acacccgtgcagacatctggaagag	AA097711
80326	acccgtgcagacatctggaagaggc	AA097711
80327	cccgtgcagacatctggaagaggca	AA097711
80328	tatggccggcctcaactcactggag	AA097711
80329	atggccggcctcaactcactggagg	AA097711
80330	ggccggcctcaactcactggaggca	AA097711
80331	gccggcctcaactcactggaggcag	AA097711
80332	cggcctcaactcactggaggcagtg	AA097711
80333	ggcctcaactcactggaggcagtga	AA097711
80334	caactcactggaggcagtgaagcgc	AA097711
80335	aactcactggaggcagtgaagcgca	AA097711
80336	atcctctacaagctgaaactcgggg	D87900
80337	cctctacaagctgaaactcggggag	D87900
80338	ctccttgtgtttgcaaacaaacagg	D87900
80339	actccctgcgtcaccgcaattggta	D87900
80340	tccctgcgtcaccgcaattggtaca	D87900
80341	cctgcgtcaccgcaattggtacatt	D87900
80342	tgcgtcaccgcaattggtacattca	D87900
80343	cgtcaccgcaattggtacattcagg	D87900
80344	tcaccgcaattggtacattcaggcc	D87900
122881	ctgagtgccaaggcttctctgacag	W34651
122882	tctgacaggttctcaccagttatgt	W34651
122883	ctgacaggttctcaccagttatgtc	W34651
122884	gacaggttctcaccagttatgtcag	W34651
122885	acaggttctcaccagttatgtcagg	W34651
122886	aggttctcaccagttatgtcaggag	W34651
122887	ggttctcaccagttatgtcaggagt	W34651
122888	ttctcaccagttatgtcaggagttc	W34651
122889	tctcaccagttatgtcaggagttca	W34651
122890	tcaccagttatgtcaggagttcacc	W34651
122891	tcaggagttcacctttccactggg	W34651
122892	gagtgccaaggcttctctgacaggt	W34651
122893	agtgccaaggcttctctgacaggtt	W34651
122894	tgccaaggcttctctgacaggttct	W34651
122895	gccaaggcttctctgacaggttctc	W34651
122896	caaggcttctctgacaggttctcac	W34651
122897	gcttctctgacaggttctcaccagt	W34651
122898	ttctctgacaggttctcaccagtta	W34651
122899	tctctgacaggttctcaccagttat	W34651
122900	cagtggccacagaggtggctctgga	M10937
122901	tggcgttaagtcctctggcagttct	M10937
122902	cagtctgagtcccatggtaacaatc	M10937
122903	gagtcccatggtaacaatcccactt	M10937
122904	catggtaacaatcccactttatgtt	M10937
122905	ttatgttctgctgaactgccatcag	M10937
122906	gaactgccatcagttcatcaccaac	M10937
122907	ccatcagttcatcaccaacatgaca	M10937
122908	gttcatcaccaacatgacatttcaa	M10937
122909	cccatatcctgcagcaacgctgagc	M10937
122910	tcctgcagcaacgctgagccgcctt	M10937
122911	gctgagccgccttaattttgtacat	M10937
122912	taagtcctctggcagttctaccgtg	M10937
122913	ctctggcagttctaccgtgaagttt	M10937
122914	tagctctgcctttccatcaaggcca	M10937
122915	tgcctttccatcaaggccaaacatg	M10937
122916	caagaccaagatcaatcccaccagc	M10937
122917	caagatcaatcccaccagccttatt	M10937
122918	ttcttttctgctcctcttgcaaaga	M10937
122919	tctgctcctcttgcaaagaagtttt	M10937
122920	caccggaacctttgcaggctgcctg	W64174
122921	gaacctttgcaggctgcctggggct	W64174
122922	gctagtacctggttactatggtgaa	W64174
122923	tagtacctggttactatggtgaagc	W64174
122924	agtacctggttactatggtgaagct	W64174
122925	aagctagctgccaaatgcatcctgg	W64174
122926	agctagctgccaaatgcatcctggc	W64174
122927	ctagctgccaaatgcatcctggcag	W64174
122928	tagctgccaaatgcatcctggcagg	W64174
122929	gactcagccgtacgaagacggccct	W64174
122930	actcagccgtacgaagacggccctg	W64174
122931	tcagccgtacgaagacggccctggt	W64174
122932	caggctgcctggggctgaagcctcc	W64174
122933	atcacggcctcaggccttggtgtca	W64174
122934	tcacggcctcaggccttggtgtcag	W64174
122935	tcaggccttggtgtcagctgtcccc	W64174
122936	caggccttggtgtcagctgtccccg	W64174
122937	gtctccgctagtacctggttactat	W64174
122938	tccgctagtacctggttactatggt	W64174
122939	cgctagtacctggttactatggtga	W64174
122940	ggtgccacctgagggtagagtcctt	L00193
122941	tagagtcctttcgtctatgattgaa	L00193
122942	acgggccactggacagacgtgtgga	L00193
122943	cacttttgtcttaatggtctgtgga	L00193
122944	ttttgtcttaatggtctgtggaaat	L00193
122945	tcttcttttcatctatcagaaagtg	L00193
122946	tcttttcatctatcagaaagtgttc	L00193
122947	tttcatctatcagaaagtgttcttt	L00193
122948	atttcaataaactttcttactgatg	L00193

TABLE 1

SEQ ID NO	sequence	DBAxnID
37741	ccatgattctcattattaccgtaga	U26589
37742	ttattaccgtagagggctcagtgct	U26589
37743	ttatttccatagtctgttagtgcct	U26589
37744	tctgttagtgcctcttaaatgtcac	U26589
37745	agtgcctcttaaatgtcacacagga	U26589
37746	tcttaaatgtcacacaggaatccaa	U26589
37747	atgtcacacaggaatccaacatttc	U26589
37748	ggtttctgtctcagctggtctccaa	U26589
37749	tgtctcagctggtctccaacaagcc	U26589
37750	acaagcctctgactgaatgcatccg	U26589
37751	ggcactatgcagcgagcgtcatcat	U26589
37752	atgcagcgagcgtcatcattaggcg	U26589
37753	cgagcgtcatcattaggcgaactgg	U26589
37754	aactcaggctgtggagtggagactg	U26589
37755	tcctgagacgttcctgccttgagaa	U26589
37756	ccacagtagccgcacttgaaaggcc	AA018011
37757	cagtagccgcacttgaaaggccggt	AA018011
37758	agaatgcgctgcgtgaaagtcttaa	AA018011
37759	ttaaagcactggccgcacttccaga	AA018011
37760	aagcactggccgcacttccagagat	AA018011
37761	ttccagagatgccagtcgctgaact	AA018011
37762	agatgccagtcgctgaactccgagt	AA018011
37763	cagtcgctgaactccgagtgcagct	AA018011
37764	aactccgagtgcagctggctggttg	AA018011
37765	ctcgccaggaccctctgattcttca	AA018011
37766	gccaggaccctctgattcttcacgt	AA018011
37767	tgattcttcacgttgatttggttaa	AA018011
37768	gtgactacgtggttcctcagttctg	AA018011
37769	ttaaatcctgcctccatgggcccag	AA018011
37770	acgtggttcctcagttctgacggct	AA018011
37771	tggttcctcagttctgacggctggg	AA018011
37772	ttcctcagttctgacggctgggaaa	AA018011
37773	cagtggccacactggtagggtctgt	AA018011
37774	tgcgtgcacacatgcatctgcagga	AA018011
37775	gtgcacacatgcatctgcaggagaa	AA018011
37776	tgcatctgcaggagaatgcgctgcg	AA018011
37777	acttccaagcacatctgcagccata	U31992
37778	aacattaaattgccacacatgtgct	U31992
37779	tctctgcaacaaggtctagatgccc	U31992
37780	gatgcccgtgccctacttcttgctc	U31992
37781	ttcaacttcaacaactaatcacatc	U31992
37782	ttcaacaactaatcacatcggctct	U31992
37783	tcacatcggctctgcctgatcacca	U31992
37784	cggctctgcctgatcaccagataag	U31992
37785	tgcctgatcaccagataagaagctc	U31992
37786	ttattgataccccattgcctatgtc	U31992
37787	cattgcctatgtcctctgccttact	U31992
37788	ctatgtcctctgccttactttgctc	U31992
37789	aaattgccacacatgtgcttatatg	U31992
37790	ccacacatgtgcttatatgaatgat	U31992
37791	tgatgcaaaatgtctccgtggagaa	U31992
37792	cactcaaaactcccagcagtgcatg	U31992
37793	gtgcccatctatgaacctcttctct	U31992
37794	atctatgaacctcttctctcatgga	U31992
37795	tcggaatgaacctctctgcaacaag	U31992
37796	tgaacctctctgcaacaaggtctag	U31992
37797	agtggctgcataccgccgagccctt	AA008737
37798	ggctgcataccgccgagcccttgaa	AA008737
37799	caacctgggagctcaccgtgaggct	AA008737
37800	ggctgtggagcactttctggaggct	AA008737
37801	tgtggagcactttctggaggctctg	AA008737
37802	gcactttctggaggctctgaacatg	AA008737
37803	ctttctggaggctctgaacatgcag	AA008737
37804	ggctctgaacatgcagaggaagagc	AA008737
37805	gaacatctggagtaccctgcgcttg	AA008737
37806	catctggagtaccctgcgcttggcg	AA008737
37807	ctggagtaccctgcgcttggcgtta	AA008737
37808	gcgcttggcgttatccatgttaggc	AA008737

SEQ ID NO	sequence	DBAxnID
80345	tgtatgaaggcttggactggctggc	D87900
80346	tgaaggcttggactggctggccaat	D87900
80347	cttggactggctggccaatcagctc	D87900
80348	tctacaagctgaaactcggggagat	D87900
80349	ggacaagattcggcccctctggaga	D87900
80350	acaagattcggcccctctggagaca	D87900
80351	aagattcggcccctctggagacact	D87900
80352	cagcaatgatcgggagcgagtgaac	D87900
80353	atgctgtgctccttgtgtttgcaaa	D87900
80354	gctgtgctccttgtgtttgcaaaca	D87900
80355	tgtgctccttgtgtttgcaaacaaa	D87900
80356	gatatctaaccaaggacatgtttga	D87901
80357	atctaaccaaggacatgtttgatag	D87901
80358	gatacagagctatcctgacaccttt	D87901
80359	acagagctatcctgacacctttaga	D87901
80360	ctatcctgacacctttagacagatc	D87901
80361	tgacacctttagacagatctgagtg	D87901
80362	ctttagacagatctgagtggttttt	D87901
80363	gagacctttatcattcctcagacag	D87901
80364	tttatcattcctcagacagtctgct	D87901
80365	attcctcagacagtctgctgattta	D87901
80366	cctcagacagtctgctgatttaaaa	D87901
80367	aacactattcagttttcttgtactg	D87901
80368	atatctgagacaggtttgggcagaa	D87901
80369	ttgtttaccaagaacaatgttgcta	D87901
80370	agtatccattattatgcttcccttg	D87901
80371	atccattattatgcttcccttgaac	D87901
80372	tatgcttcccttgaacctaaatgcc	D87901
80373	tcccttgaacctaaatgcctggata	D87901
80374	gaacctaaatgcctggatacagagc	D87901
80375	cctaaatgcctggatacagagctat	D87901
80376	gacaatcttcagaaacttaatgtca	AA097756
80377	ctgaggacgctgcacctccagcaca	AA097756
80378	ctttcaagcaatcgtcttgcaactg	AA097756
80379	aatcgtcttgcaactgtgcctgctg	AA097756
80380	tttgctttgctgtccagtctgttgc	AA097756
80381	ctgtccagtctgttgcgactcaatc	AA097756
80382	agtctgttgcgactcaatctttcca	AA097756
80383	ttgcgactcaatctttccagtaacc	AA097756
80384	cgactcaatctttccagtaaccagc	AA097756
80385	ctcaatctttccagtaaccagctga	AA097756
80386	ctttccagtaaccagctgaagaatt	AA097756
80387	tccagtaaccagctgaagaatttgc	AA097756
80388	ctgcacctccagcacaatgagctga	AA097756
80389	ctccagcacaatgagctgacttgca	AA097756
80390	acttgcatccccgagggatttgagc	AA097756
80391	tgcatccccgagggatttgagcatc	AA097756
80392	ggatttgagcatctttcctgcttag	AA097756
80393	tttgagcatctttcctgcttagaag	AA097756
80394	ctttcctgcttagaagatttagatc	AA097756
80395	gatctttcaagcaatcgtcttgcaa	AA097756
80396	gtccaggagtctgctgatgaactcc	D87902
80397	tctgctgatgaactccagaagatgc	D87902
80398	tgtgccacccaaggcacaggcctgt	D87902
80399	gccacccaaggcacaggcctgtatg	D87902
80400	acccaaggcacaggcctgtatgatg	D87902
80401	ctgtcccacgagctgtcaaagcgct	D87902
80402	gtgcatcccgggatgaccagactcc	D87902
80403	atgaccagactcccggactcctcag	D87902
80404	agactcccggactcctcaggcagtg	D87902
80405	cgttggagcctggagccttgctctc	D87902
80406	tctctgggcacagagggctctgctc	D87902
80407	acctgtggatgggcttcctggccaa	D87902
80408	caggacatgcccaatgccatgcccg	D87902
80409	gacatgcccaatgccatgcccgtga	D87902
80410	cccaatgccatgcccgtgagcgagc	D87902
80411	ctgactgacaagctgggccttcagc	D87902
80412	gacaagctgggccttcagcacctgc	D87902

SEQ ID NO	sequence	DBAxnID
122949	aactttcttactgatgcaaactatg	L00193
122950	tttcttactgatgcaaactatgttg	L00193
122951	cttactgatgcaaactatgttgggt	L00193
122952	agtcctttcgtctatgattgaatca	L00193
122953	caagaaacacttctattaagctgca	L00193
122954	gaaacacttctattaagctgcatag	L00193
122955	acacttctattaagctgcatagaag	L00193
122956	gaagagtctcttcatacgggccact	L00193
122957	gagtctcttcatacgggccactgga	L00193
122958	cttcatacgggccactggacagacg	L00193
122959	catacgggccactggacagacgtgt	L00193
122960	ttcggcacaggtttgtgattacagc	W34697
122961	aaagcagctccagctcctgcgctga	W34697
122962	agttcacacctctgaacagtttgaa	W34697
122963	gttcacacctctgaacagtttgaag	W34697
122964	ttcacacctctgaacagtttgaaga	W34697
122965	tcacacctctgaacagtttgaagag	W34697
122966	cacacctctgaacagtttgaagagt	W34697
122967	acacctctgaacagtttgaagagtt	W34697
122968	ggccttcctgcttgttcgaccgcac	W34697
122969	gccttcctgcttgttcgaccgcaca	W34697
122970	ctgcttgttcgaccgcacacccaag	W34697
122971	tgcttgttcgaccgcacacccaagg	W34697
122972	aagcagctccagctcctgcgctgac	W34697
122973	gcgctgacctgcactgcacctgcgg	W34697
122974	taagatcgagttcacacctctgaac	W34697
122975	aagatcgagttcacacctctgaaca	W34697
122976	agatcgagttcacacctctgaacag	W34697
122977	atcgagttcacacctctgaacagtt	W34697
122978	tcgagttcacacctctgaacagttt	W34697
122979	gagttcacacctctgaacagtttga	W34697
122980	ggcgcaccatgcagaacctggagat	M13806
122981	gcaccatgcagaacctggagatcga	M13806
122982	ctgctggaagagcccctgtattgtc	M13806
122983	ctggaagagcccctgtattgtccct	M13806
122984	gaagagcccctgtattgtccctata	M13806
122985	ctgtattgtccctataggcttcact	M13806
122986	tattgtccctataggcttcactctt	M13806
122987	ccctataggcttcactctttacttg	M13806
122988	tataggcttcactctttacttgacc	M13806
122989	gacccttgtccttcctggcaagcaa	M13806
122990	ccttgtccttcctggcaagcaataa	M13806
122991	tgtccttcctggcaagcaataaagc	M13806
122992	accgccagatccgcaccaaggtcat	M13806
122993	gccagatccgcaccaaggtcatgga	M13806
122994	aggtcctgcgcaccaagaactaaag	M13806
122995	tcctgcgcaccaagaactaaagctg	M13806
122996	aaagctgctacatgctgctcaggct	M13806
122997	gctgctacatgctgctcaggcttag	M13806
122998	gctacatgctgctcaggcttaggag	M13806
122999	ttaggaggctccgtggacgagatac	M13806
123000	agatgtatcctccagtcgccaggtt	J02644
123001	tcgcaccaaagtcgtggatgtacac	J02644
123002	cttctctgcactgctcatgcctaga	J02644
123003	tggacacagatttccctgggggatc	J02644
123004	caagcacttgactcgtgagccctgt	J02644
123005	gcacttgactcgtgagccctgtttc	J02644
123006	cttgactcgtgagccctgtttcacc	J02644
123007	gactcgtgagccctgtttcaccttg	J02644
123008	tcgtgagccctgtttcaccttgccc	J02644
123009	tgagccctgtttcaccttgcccctt	J02644
123010	ccttccagcaatcaataaagcttca	J02644
123011	cttccagcaatcaataaagcttcat	J02644
123012	cacacacgagcagatcgttcgcacc	J02644
123013	acacgagcagatcgttcgcaccaag	J02644
123014	gatcgttcgcaccaagaactaaggc	J02644
123015	tcgcaccaagaactaaggcttctct	J02644
123016	caagaactaaggcttctctgcactg	J02644

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37809	agcccttgaactacagcctgggtat	AA008737	80413	ctgggccttcagcacctgcgtagcc	D87902	123017	gaactaaggcttctctgcactgctc	J02644
37810	tgaactacagcctgggtatattcgg	AA008737	80414	ggccttcagcacctgcgtagccgca	D87902	123018	ctaaggcttctctgcactgctcatg	J02644
37811	gtcccggtataacctaggcatcagc	AA008737	80415	cttcagcacctgcgtagccgcacgt	D87902	123019	aggcttctctgcactgctcatgcct	J02644
37812	gtataacctaggcatcagctgcatc	AA008737	80416	ctctatgaggggctcacatggttaa	D87903	123020	attttggttcgcgacccatacagct	W34742
37813	cctaggcatcagctgcatcaacctg	AA008737	80417	acctctaactacaaatcctaatgag	D87903	123021	gttcgcgacccatacagctcgactg	W34742
37814	aggcatcagctgcatcaacctggga	AA008737	80418	agatgccttgtgacttccagcaaac	D87903	123022	aatatccatacgttgaggcgatttc	W34742
37815	catcagctgcatcaacctgggagct	AA008737	80419	cttgtgacttccagcaaacggggtg	D87903	123023	cgtgttgatccatctctatggatcc	W34742
37816	catcaacctgggagctcaccgtgag	AA008737	80420	ttgcccaggttcttatcacttgctg	D87903	123024	gatccatctctatggatcctgaacc	W34742
37817	cttcaacaaccgattctctcacctg	AA008787	80421	aggttcttatcacttgctgtagatg	D87903	123025	tggatcctgaacctactgaacactc	W34742
37818	ttcaacaaccgattctctcacctgc	AA008787	80422	ttatcacttgctgtagatggcttat	D87903	123026	ttgatgtccaggttgtcagcgccgg	W34742
37819	ctactcccaacttggccaagctact	AA008787	80423	ttttgcattcatgcagactatgttc	D87903	123027	atgtccaggttgtcagcgccggggc	W34742
37820	actcccaacttggccaagctactca	AA008787	80424	attcatgcagactatgttccaagtc	D87903	123028	tccaggttgtcagcgccggggcgac	W34742
37821	ttggccaagctactcacccagcagt	AA008787	80425	tatgttccaagtctgtttcatctag	D87903	123029	aggttgtcagcgccggggcgactca	W34742
37822	tggccaagctactcacccagcagtc	AA008787	80426	ccaagtctgtttcatctagtaaact	D87903	123030	gggcgactcaggcaccatgagccag	W34742
37823	tcccaactatacccgaacatactg	AA008787	80427	ctgtttcatctagtaaactgaaaat	D87903	123031	cgactcaggcaccatgagccaggac	W34742
37824	tataccccgaacatactgaggtaca	AA008787	80428	aactacaaatcctaatgagcgtcct	D87903	123032	cgcgacccatacagctcgactgtct	W34742
37825	taccccgaacatactgaggtacagc	AA008787	80429	catcacctctttgaattgccactct	D87903	123033	tacagctcgactgtctgggtcacaa	W34742
37826	accccgaacatactgaggtacagcg	AA008787	80430	ttgaatctgaactctggagttactg	D87903	123034	agctcgactgtctgggtcacaacta	W34742
37827	gaggtacagcgcaacatcagccagt	AA008787	80431	ctgaactctggagttactgttctac	D87903	123035	tcgactgtctgggtcacaactacca	W34742
37828	aggtacagcgcaacatcagccagtt	AA008787	80432	tcttggctttgcgttaggatgctct	D87903	123036	gtctgggtcacaactaccaatatcc	W34742
37829	ctgccccaggtaatgactgacatct	AA008787	80433	ctttgcgttaggatgctctgatctg	D87903	123037	gtcacaactaccaatatccatacgt	W34742
37830	ggtacagcgcaacatcagccagtta	AA008787	80434	atgctctgatctgacatttgacacg	D87903	123038	actaccaatatccatacgttgaggc	W34742
37831	gtaatgactgacatctcccaggtac	AA008787	80435	tgatctgacatttgacacgaataca	D87903	123039	accaatatccatacgttgaggcgat	W34742
37832	aatgactgacatctcccaggtactc	AA008787	80436	tgagcaccctgggaggtcatgcctg	AA097936	123040	ttggaccagtcaacatctctgtggt	K02108
37833	atgactgacatctcccaggtactca	AA008787	80437	agcaccctgggaggtcatgcctgat	AA097936	123041	cagtcaacatctctgtggtgcagtc	K02108
37834	cttctccaagctactcccaacttgg	AA008787	80438	gagttcaatgctgctctaccttaag	AA097936	123042	tgtcaccaagagcttgtctctggtc	K02108
37835	ttctccaagctactcccaacttggc	AA008787	80439	gttcaatgctgctctaccttaagtt	AA097936	123043	tgtcatggctgcagctgaaccacat	K02108
37836	tccaagctactcccaacttggccaa	AA008787	80440	ttcaatgctgctctaccttaagttg	AA097936	123044	tgttgcacgtcagcacctatacatg	K02108
37837	gctactcccaacttggccaagctac	AA008787	80441	caatgctgctctaccttaagttgcc	AA097936	123045	acgtcagcacctatacatgttcttt	K02108
37838	agcccctgcagatagagacctgtgg	U35249	80442	aatgctgctctaccttaagttgccg	AA097936	123046	atacatgttctttggtgacccagac	K02108
37839	cctgtggcccacaagttcctgagca	U35249	80443	tgctgctctaccttaagttgccgaa	AA097936	123047	tggtgacccagaccccaaaatgttg	K02108
37840	gtcacagagcgctacaggatgcgtt	U35249	80444	gctgctctaccttaagttgccgaat	AA097936	123048	cccagaccccaaaatgttgcagaat	K02108
37841	tacaggatgcgttcagtgggctctt	U35249	80445	tgctctaccttaagttgccgaatgg	AA097936	123049	gaatacccacctaaattctgtcatg	K02108
37842	tctggcagcccagataacctgtatt	U35249	80446	gctctaccttaagttgccgaatggt	AA097936	123050	ggttctgacttcctccagagtctgt	K02108
37843	agcccagataacctgtattttctca	U35249	80447	tctaccttaagttgccgaatggtct	AA097936	123051	gacttcctccagagtctgtaaaata	K02108
37844	gataacctgtattttctcatgtata	U35249	80448	taattgaccggaacagcttctgagt	AA097936	123052	ctgtggtgcagtccaccgtgtccag	K02108
37845	ctgtattttctcatgtataagatct	U35249	80449	attgaccggaacagcttctgagttc	AA097936	123053	tgtccagcggctatggcagtgccgg	K02108
37846	accactgctgctgtgctcaggtgtt	U35249	80450	ttgaccggaacagcttctgagttca	AA097936	123054	gaggcagcagctactcctatagcag	K02108
37847	ttattgcagtctggaccaagctgag	U35249	80451	gaccggaacagcttctgagttcaat	AA097936	123055	gcagctactcctatagcagcagcca	K02108
37848	acttctgttctttagacagggatga	U35249	80452	cggaacagcttctgagttcaatgct	AA097936	123056	tcagtgctggcagtggcagagccat	K02108
37849	atgatttgcctatgtttggagttga	U35249	80453	agcttctgagttcaatgctgctcta	AA097936	123057	gtggcctcagctcttctggtggcct	K02108
37850	gcccacaagttcctgagcaagagct	U35249	80454	tctgagttcaatgctgctctacctt	AA097936	123058	tcagctcttctggtggcctcagctc	K02108
37851	tccgggctgcatctccacaggatct	U35249	80455	tgagttcaatgctgctctaccttaa	AA097936	123059	cttctggtggcctcagctcttctac	K02108
37852	ctgcatctccacaggatcttgctgg	U35249	80456	cggtgctccactgagtggcctgcag	Y08361	123060	aacgtccgcttcacatacaggagcg	U50378
37853	ctccacaggatcttgctggcggcta	U35249	80457	accagagtgcacgcgctgcggccac	Y08361	123061	gagaatccagtcctgcagcagcact	U50378
37854	ttgctggcggctatacttcttctct	U35249	80458	cttcctagatgaacggctgtactgt	Y08361	123062	agaagcccagccactttctacactg	U50378
37855	gcggctatacttcttctcttgcttg	U35249	80459	agatgaacggctgtactgtgagaat	Y08361	123063	agcccagccactttctacactgcag	U50378
37856	cttctcttgcttgtcacagagcgct	U35249	80460	tgagaatcacgccaaggctcgagtc	Y08361	123064	actttctacactgcagccaggccac	U50378
37857	ttgcttgtcacagagcgctacagga	U35249	80461	tgtataccccaatgctaaggtggaa	Y08361	123065	ttctacactgcagccaggccacctg	U50378
37858	gtgtattcccattgacagccctgat	AA008793	80462	atcttgtcttgcctctgcttcactt	Y08361	123066	gccaggccacctgcttgtgttctta	U50378
37859	gtattcccattgacagccctgatag	AA008793	80463	tcttgcctctgcttcacttaatgtt	Y08361	123067	aggccacctgcttgtgttcttacca	U50378
37860	aaatgtgccaataatcgtggttgga	AA008793	80464	ttcacttaatgttccctcatggcca	Y08361	123068	gcttgtgttcttaccaagctaggtg	U50378
37861	gtgccaataatcgtggttggaaaca	AA008793	80465	taatgttccctcatggccagtgtaa	Y08361	123069	tgtgttcttaccaagctaggtggta	U50378
37862	aggacgttcggattgacgagcacag	AA008793	80466	aatatatgtcctcctggcctttcta	Y08361	123070	cttaccaagctaggtggtagctaca	U50378
37863	ttcggattgacgagcacaggagacg	AA008793	80467	ctttctaataaagtccttctgcttg	Y08361	123071	cacctcactgtgccttactctgtga	U50378
37864	ttgacgagcacaggagacgggagtc	AA008793	80468	aaccattgtcaaggcgagagacaag	Y08361	123072	aatccagtcctgcagcagcacttcc	U50378
37865	tatgagccggttgaccttgagtcag	AA008793	80469	agacaagctctaccatccggagtgc	Y08361	123073	ctgtgccttactctgtgaataaagc	U50378
37866	tgagccggttgaccttgagtcaggc	AA008793	80470	gctctaccatccggagtgcttcatg	Y08361	123074	ctgcagcagcacttccgcaacctgg	U50378
37867	ccggttgaccttgagtcaggcagag	AA008793	80471	ccatccggagtgcttcatgtgcagc	Y08361	123075	cagcagcacttccgcaacctggagg	U50378
37868	ggttgaccttgagtcaggcagagat	AA008793	80472	cgactgcggcctgaatctcaaacag	Y08361	123076	gacatatgcaaggctcatgggctta	U50378
37869	ttgaccttgagtcaggcagagatat	AA008793	80473	cggcctgaatctcaaacagcgtggg	Y08361	123077	atatgcaaggctcatgggcttaaga	U50378
37870	tcccattgacagccctgatagttta	AA008793	80474	gaatctcaaacagcgtgggtacttc	Y08361	123078	gatgctcttatcagacacttggaga	U50378
37871	gtttagaaaacatcccagacaaatg	AA008793	80475	gtacttcttcctagatgaacggctg	Y08361	123079	ctaaagctcagaagcccagccactt	U50378
37872	ttagaaaacatcccagacaaatgga	AA008793	80476	tcaaagactaacctttcagtccatg	AA161979	123080	aagctcagaagcccagccactttct	U50378
37873	catcccagacaaatggactccagaa	AA008793	80477	caaagactaacctttcagtccatga	AA161979	123081	attactgtggacctggtcatcggcc	W34790
37874	atggactccagaagtcaagcatttc	AA008793	80478	cgtttcgtgtgtagtccagatgaag	AA161979	123082	actgtggacctggtcatcggcccta	W34790
37875	gcatttctgtccaaatgtgccaata	AA008793	80479	gtttcgtgtgtagtccagatgaagt	AA161979	123083	gagacccaggcagtcctgcagctgg	W34790
37876	ttctgtccaaatgtgccaataatcg	AA008793	80480	ttcgtgtgtagtccagatgaagtca	AA161979	123084	gcagtcctgcagctgggcatcgagg	W34790

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37877	ctgtccaaatgtgccaataatcgtg	AA008793	80481	ggaaatccaacagacatgtcgcagt	AA161979	123085	ctgcagctgggcatcgagggtgccc	W34790
37878	atgcagcgctgcgaggaggatctcg	AA008831	80482	aaatccaacagacatgtcgcagtta	AA161979	123086	tgtctatcaaaacgtcgtccctggc	W34790
37879	aggaggatctcgtcctctggctatg	AA008831	80483	aatccaacagacatgtcgcagttac	AA161979	123087	ctatcaaaacgtcgtccctggcaga	W34790
37880	cgtcctctggctatgaacgacctgg	AA008831	80484	tccaacagacatgtcgcagttacaa	AA161979	123088	cgtcgtccctggcagaggctgagaa	W34790
37881	cctgcgtcctcacgcgaaaggggct	AA008831	80485	aacagacatgtcgcagttacaaata	AA161979	123089	cgtccctggcagaggctgagaacat	W34790
37882	ctgcgtcctcacgcgaaaggggcta	AA008831	80486	agtcacagcatatttcttattaatg	AA161979	123090	acatggctgacctcatagatggcta	W34790
37883	tgcgtcctcacgcgaaaggggctat	AA008831	80487	gtcacagcatatttcttattaatgt	AA161979	123091	tcatagatggctactgcaggctgca	W34790
37884	gcgtcctcacgcgaaaggggctatt	AA008831	80488	agactaacctttcagtccatgaaga	AA161979	123092	tagatggctactgcaggctgcaagg	W34790
37885	cgtcctcacgcgaaaggggctattg	AA008831	80489	actaacctttcagtccatgaagaca	AA161979	123093	gtcatcggccctaaaggcatccgtc	W34790
37886	tcacgcgaaaggggctattgcatct	AA008831	80490	ctaacctttcagtccatgaagacaa	AA161979	123094	ggccctaaaggcatccgtcagctga	W34790
37887	gaggatctcgtcctctggctatgaa	AA008831	80491	ggtgcacagaacgtttcgtgtgtag	AA161979	123095	cctaaaggcatccgtcagctgacaa	W34790
37888	aggatctcgtcctctggctatgaac	AA008831	80492	tgcacagaacgtttcgtgtgtagtc	AA161979	123096	atccgtcagctgacaagtcaagata	W34790
37889	ggatctcgtcctctggctatgaacg	AA008831	80493	acagaacgtttcgtgtgtagtccag	AA161979	123097	caagatacaaagcccacctgcctgg	W34790
37890	gatctcgtcctctggctatgaacga	AA008831	80494	cagaacgtttcgtgtgtagtccaga	AA161979	123098	aagcagatcaaatccatcaggtgcc	W34790
37891	atctcgtcctctggctatgaacgac	AA008831	80495	aacgtttcgtgtgtagtccagatga	AA161979	123099	aaatccatcaggtgcctcccattgg	W34790
37892	tctcgtcctctggctatgaacgacc	AA008831	80496	caaacagtccagccaacagccaagc	X96859	123100	tccatcaggtgcctcccattggaag	W34790
37893	ctcgtcctctggctatgaacgacct	AA008831	80497	acagtccagccaacagccaagcagc	X96859	123101	atacccgtctgtctcgccgagtatt	W34756
37894	tcgtcctctggctatgaacgacctg	AA008831	80498	tcatccttcatcgttgttgtgtata	X96859	123102	cccgtctgtctcgccgagtattgag	W34756
37895	ccccaggtctagtgcagtgccaaga	X84727	80499	cctcccagtagaaaggctagcaagt	X96859	123103	atgtgatcattcctagaggtgccga	W34756
37896	tgcagtgccaagatctggtggttct	X84727	80500	agaacctacaaaagcttgtgtatct	X96859	123104	tcattcctagaggtgccgacaatct	W34756
37897	ttcgtggctttgtgatgacaaatct	X84727	80501	acctacaaaagcttgtgtatcttga	X96859	123105	ttcctagaggtgccgacaatctcgt	W34756
37898	acccgtgtgcacagaagtgagatca	X84727	80502	atacataacttcagtgcaagagact	X96859	123106	gtgccgacaatctcgtggccatcaa	W34756
37899	gggagacagacaaccttctgcctga	X84727	80503	aacttcagtgcaagagactttgtca	X96859	123107	ccgacaatctcgtggccatcaacct	W34756
37900	accttctgcctgaaccaagatggtg	X84727	80504	tttgtcacttatttcctcacctgtg	X96859	123108	acaatctcgtggccatcaacctcat	W34756
37901	gccatgttttctaacccagagcctg	X84727	80505	gtcacttatttcctcacctgtgcaa	X96859	123109	ggctctccaagcggcagacgaacgg	W34756
37902	gagcctgtctttttagcagacctca	X84727	80506	acttatttcctcacctgtgcaagag	X96859	123110	tctccaagcggcagacgaacggcta	W34756
37903	gacctcaataaatctcctgcctcag	X84727	80507	ctcacctgtgcaagagggactgcga	X96859	123111	agacgaacggctatctcaacggcta	W34756
37904	ttctgtttccacatcctgcctgatg	X84727	80508	cagccaacagccaagcagcacagct	X96859	123112	cttcccgcaagaggcaggcgtcaga	W34756
37905	tacagtgttgcatggtcctatggta	X84727	80509	ccaacagccaagcagcacagcttta	X96859	123113	tgtctcgccgagtattgagggacat	W34756
37906	gttgcatggtcctatggtagaaaga	X84727	80510	acagccaagcagcacagctttatca	X96859	123114	agattttatcacagtacattacgtt	W34756
37907	ttttgagacagggcctcactgtgcg	X84727	80511	cagcacagctttatcaggaaaacaa	X96859	123115	ttttatcacagtacattacgtttgt	W34756
37908	gaccaggctaacctggaactcagcg	X84727	80512	tttcggccattgttgagcaaagctg	X96859	123116	cacagtacattacgtttgtgaagcc	W34756
37909	gctaacctggaactcagcgaacatg	X84727	80513	attcataatagacacctggtctgct	X96859	123117	agtacattacgtttgtgaagcctgc	W34756
37910	ctggaactcagcgaacatgtctgcc	X84727	80514	aatagacacctggtctgctcatcct	X96859	123118	aattctgcttgccaacaaagaaata	W34756
37911	aggccacagcaatcatcctttctca	X84727	80515	agacacctggtctgctcatccttca	X96859	123119	tctgcttgccaacaaagaaatacgc	W34756
37912	tcatcctttctcaaccacctgaagg	X84727	80516	gttctggaacccttgtccatggcca	U69176	123120	caaagaaatacgccgatgtgatcat	W34756
37913	aaccacctgaaggtgacagcatacg	X84727	80517	gaacccttgtccatggccacagcgt	U69176	123121	attcggaccatgcggatccatgatt	AA110246
37914	gtgacagcatacgccgtcgtgtgtg	X84727	80518	agccagttgatcacagggagcctgt	U69176	123122	tcggaccatgcggatccatgattat	AA110246
37915	atcactgtttgtgcctctgtgggag	D28530	80519	ttgatcacagggagcctgtgtttgt	U69176	123123	cctatggtcagctacctccaggggg	AA110246
37916	ctatgtgcggccacttcgacggctt	D28530	80520	gtgttccagagtctttactgacacc	U69176	123124	gtccctacggtacatagcctggaca	AA110246
37917	tacagggacatggccaccaaggaca	D28530	80521	gctgcatccgccacttttgtaattga	U69176	123125	ccctacggtacatagcctggacatt	AA110246
37918	agggacatggccaccaaggacacag	D28530	80522	tccgccactttgtaattgacagccg	U69176	123126	ggtacatagcctggacattatggac	AA110246
37919	gacatggccaccaaggacacagtgg	D28530	80523	taattgacagccgccctgtgagctt	U69176	123127	tacatagcctggacattatggacag	AA110246
37920	accaaggacacagtggctggccttg	D28530	80524	acagccgccctgtgagcttcagtaa	U69176	123128	catagcctggacattatggacaggg	AA110246
37921	aaggacacagtggctggccttgctg	D28530	80525	gccctgtgagcttcagtaaagctgc	U69176	123129	atgtggatcctgaggcctactcctg	AA110246
37922	atgacctctgtgccccgcatggagg	D28530	80526	cctgacacagctgcaggctgctgaa	U69176	123130	atcctgaggcctactcctggttcca	AA110246
37923	ctgaggtctctctttgtaggagagt	D28530	80527	ctgaagctctcacctggttgaaggg	U69176	123131	cctgaggcctactcctggttccagt	AA110246
37924	aggtctctctttgtaggagagtggg	D28530	80528	atggccacagcgtcaacggggaata	U69176	123132	aggcctactcctggttccagtcagt	AA110246
37925	agcagcaggtgacgcccctgtatgt	D28530	80529	tcagagacttttctacctcagtaac	U69176	123133	cggatccatgattatcctggtcctc	AA110246
37926	agcaggtgacgcccctgtatgtaga	D28530	80530	ctacctcagtaactcccaagcagaa	U69176	123134	accctatggataccccagtgctgga	AA110246
37927	gcggccacttcgacggcttctgtgt	D28530	80531	cagtaactcccaagcagaatctctg	U69176	123135	cctatggataccccagtgctggagg	AA110246
37928	tcgacggcttctgtgtgtgcatctt	D28530	80532	ctcccaagcagaatctctgtgatgg	U69176	123136	tatggataccccagtgctggaggag	AA110246
37929	tgtgcatctttcccacatgcccgac	D28530	80533	attcaaacgtggttcagttggatgt	U69176	123137	gggaactccaagtggaccatatggc	AA110246
37930	catccccatgtgaatggtgcgctta	D28530	80534	tgaaccatgtagttgggccgttgaa	U69176	123138	tccaagtggaccatatggcggtata	AA110246
37931	ccccatgtgaatggtgcgcttagtt	D28530	80535	cgttgaatccaaagccagttgatca	U69176	123139	caagtggaccatatggcggtatacc	AA110246
37932	aatcaatcttcagacatatcagata	D28530	80536	atcctgatccaaagtgacctgactc	AA098024	123140	ggtccctatggtcagctacctccag	AA110246
37933	tcttcagacatatcagatatggagg	D28530	80537	ctgatccaaagtgacctgactccca	AA098024	123141	ctcccatgttgggagacatcatgtg	AA139860
37934	ctcgggccagactacagggacatgg	D28530	80538	agtggcttgctccagaaaggcttct	AA098024	123142	agacatcatgtggcaagtgacaaag	AA139860
37935	tgccaccaatgctgctggctggagc	M63245	80539	ggcttgctccagaaaggcttctcct	AA098024	123143	ttttgacacttctggagtttgggca	AA139860
37936	tgctggctggagccctggagtctgt	M63245	80540	cagaaaggcttctcctgagacctgc	AA098024	123144	tttgacacttctggagtttgggcaa	AA139860
37937	tgaagccacattcgtcagctgaatg	M63245	80541	aaaggcttctcctgagacctgcaag	AA098024	123145	tgacacttctggagtttgggcaagg	AA139860
37938	cacattcgtcagctgaatgcaactt	M63245	80542	ttctcctgagacctgcaagcatcag	AA098024	123146	gacacttctggagtttgggcaagga	AA139860
37939	ctgaatgcaacttctgcaggaggcc	M63245	80543	tgagacctgcaagcatcaggggaga	AA098024	123147	tacttgtcctgcatcttctccaaga	AA139860
37940	ggaggcccctgcactttgaagtgat	M63245	80544	gagatatttggtcctttgggatcct	AA098024	123148	acttgtcctgcatcttctccaagat	AA139860
37941	cctatttctcaggcatgagcaagat	M63245	80545	tgactctaggagcaccaccataccc	AA098024	123149	cttgtcctgcatcttctccaagata	AA139860
37942	ctgcccaggcctgactctgactcag	M63245	80546	taggagcaccaccataccctgaagt	AA098024	123150	tgtcctgcatcttctccaagatagg	AA139860
37943	aggcctgactctgactcagttattc	M63245	80547	ccaccagcatcctacaatatcttca	AA098024	123151	ctgcatcttctccaagataggcaca	AA139860
37944	gactctgactcagttattcacaaac	M63245	80548	gacctgactcccaaacttttgtcatc	AA098024	123152	tgcatcttctccaagataggcacaa	AA139860

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
37945	ccattaccatacccacatagtagcc	M63245	80549	gcatcctacaatatcttcagagaaa	AA098024	123153	gtcccataactggggtagtaccatg	AA139860
37946	ccatacccacatagtagccagaatt	M63245	80550	cccaaactttgtcatctgggcctgg	AA098024	123154	gcatcttctccaagataggcacaat	AA139860
37947	ccctggagtctgtgcggatcctgaa	M63245	80551	tgtcatctgggcctggcttatgaag	AA098024	123155	tcccataactggggtagtaccatga	AA139860
37948	agcaccagcgaaatgtcaagcttct	M63245	80552	catctgggcctggcttatgaagttc	AA098024	123156	ccagccatgttttgacacttctgga	AA139860
37949	atgtcaagcttctgaggcagatgct	M63245	80553	ctgggcctggcttatgaagttcatg	AA098024	123157	cagccatgttttgacacttctggag	AA139860
37950	gtccgagtcacatcatccctgtgcg	M63245	80554	tatgaagttcatgcccatggggcat	AA098024	123158	agccatgttttgacacttctggagt	AA139860
37951	ctgtgcgggttgccgatgctgctaa	M63245	80555	tccctctcaagtggcttgctccaga	AA098024	123159	ccatgttttgacacttctggagttt	AA139860
37952	ataatatctacgtccaggccatcaa	M63245	80556	tcaagtggcttgctccagaaaggct	AA098024	123160	catgttttgacacttctggagtttg	AA139860
37953	tctacgtccaggccatcaattaccc	M63245	80557	gcctcacatccgaaagtcagtctcc	U56909	123161	atgttttgacacttctggagtttgg	AA139860
37954	tccaggccatcaattacccaacagt	M63245	80558	aaagtcagtctccacaagtagccct	U56909	123162	actttgtgtcctgttcagacagcgc	D13139
37955	tccagtcagcaggatcatgagtttg	L49180	80559	cctaaggccacaaactgttgagcac	U56909	123163	tgccccaagtggctgaccacctgga	D13139
37956	gaaccagccagggttacaaagagag	L49180	80560	aactgttgagcacacacagtggaca	U56909	123164	tccctatcaccctgaaagagctgga	D13139
37957	ccagaccattctaagcgtattccat	L49180	80561	tgagcacacacagtggacatacggc	U56909	123165	acggctcctgcaggacatactatgg	D13139
37958	cattctaagcgtattccatttccta	L49180	80562	atacggcattcagcagtgggtttgg	U56909	123166	actatggctactctcaagctcacag	D13139
37959	attccatttcctacagccctgatag	L49180	80563	cattcagcagtgggtttggaacata	U56909	123167	gctactctcaagctcacagcatcca	D13139
37960	agcctgcttctgcctctgtgtacat	L49180	80564	tggatctcatgaaacctgtaccagg	U56909	123168	ctcaagctcacagcatccacttgca	D13139
37961	cttctgcctctgtgtacatggcatt	L49180	80565	atcgattctcactgaggagaagcct	U56909	123169	ctcacagcatccacttgcagacagg	D13139
37962	cctctgtgtacatggcatttgtctt	L49180	80566	agctctggccaggcctcataggaaa	U56909	123170	gtctccatcttctgtgacatccgac	D13139
37963	gcatcatacgaatcatgattctgtt	L49180	80567	ccagcgtcaacggtcaccatgggtg	U56909	123171	agtgctctctgagctcagggaagac	D13139
37964	tcatgattctgttctctcaagccac	L49180	80568	aaactggttccatgtactgtgaact	U56909	123172	cctgttgtccgtgcagaaccacacc	D13139
37965	ttctgttctctcaagccacctggtt	L49180	80569	agtctccacaagtagccctgcagga	U56909	123173	tacctggggacagctcaagacacag	D13139
37966	tctctcaagccacctggttaaatta	L49180	80570	cacaagtagccctgcaggagctgct	U56909	123174	ctgaccacctggaccacatcaagaa	D13139
37967	gaccgagtctcaaaaccaatcaaca	L49180	80571	tagccctgcaggagctgctattgca	U56909	123175	acctggaccacatcaagaaggtggc	D13139
37968	aatatggccagtcctccagatccat	L49180	80572	agctgctattgcatcaacctctggg	U56909	123176	tgcttcctgtgggactggaggatgt	D13139
37969	cctccagatccatggagagctgatt	L49180	80573	tattgcatcaacctctggggcatcc	U56909	123177	cagacctgatagctgagcttctcag	D13139
37970	gctgattccaggagtccccaaattt	L49180	80574	atcaacctctggggcatccaataac	U56909	123178	tgatagctgagcttctcaggaggaa	D13139
37971	tccaggagtccccaaatttctggat	L49180	80575	caataacagttcttcgaattgagac	U56909	123179	gtttgctagctgacaacctgattcg	D13139
37972	gagtcccctgttgaaaacagtgcag	L49180	80576	ttgagaccaactcctaaggccacaa	U56909	123180	tagctgacaacctgattcgggtctt	D13139
37973	tgtcccagtcatgcctcacaccgtt	L49180	80577	aaccccagacacacgggctctagtg	U59746	123181	tgcagtctcctgaggaagtccctat	D13139
37974	acctctccagaccattctaagcgta	L49180	80578	cccagacacacgggctctagtggct	U59746	123182	catactgcttccatccatactccag	M35662
37975	tggctgacggctttcccaaaactag	AA008876	80579	ggcattctttgtctttggggctgcc	U59746	123183	gcttccatccatactccagagaatc	M35662
37976	ctagcctttgacttttcagagatac	AA008876	80580	tgccctgtgtgctgagagtgtcaac	U59746	123184	gtttataatctatgccgctgcatta	M35662
37977	gccattgtcctgtgccgtcagctgg	AA008876	80581	ggcctacctggagacacgtctggct	U59746	123185	tataatctatgccgctgcattaaaa	M35662
37978	attgtcctgtgccgtcagctgggat	AA008876	80582	ctacctggagacacgtctggctgac	U59746	123186	ctatgccgctgcattaaaagggaca	M35662
37979	gtcctgtgccgtcagctgggatgtg	AA008876	80583	acacgtctggctgactggatccaca	U59746	123187	tgccgctgcattaaaagggacatcc	M35662
37980	ctgtgccgtcagctgggatgtggcc	AA008876	80584	acgtctggctgactggatccacagc	U59746	123188	gtcttgaggtgccgagttgtctttc	M35662
37981	cgtcagctgggatgtggccaggctc	AA008876	80585	cgtctggctgactggatccacagca	U59746	123189	ttgaggtgccgagttgtctttcaga	M35662
37982	ccaggccgaggcccaatcctcttgg	AA008876	80586	gctgactggatccacagcagtgggg	U59746	123190	tgccgagttgtctttcagaacgaat	M35662
37983	ggcccaatcctcttggacaatgtca	AA008876	80587	cggagttcacagctctatacgggga	U59746	123191	cctgcccacatggtctttgttgaac	M35662
37984	ccaatcctcttggacaatgtcaaat	AA008876	80588	gaactgggcatcagtgaggacagtg	U59746	123192	gcccacatggtctttgttgaaccag	M35662
37985	atcctcttggacaatgtcaaatgcc	AA008876	80589	agacacacgggctctagtggctgac	U59746	123193	tttgttgaaccagacttgtaatgct	M35662
37986	caatgtcaaatgccgaggagatgag	AA008876	80590	cacacgggctctagtggctgacttt	U59746	123194	tccatccatactccagagaatcgag	M35662
37987	gcctttgacttttcagagataccaa	AA008876	80591	tctagtggctgactttgtaggctat	U59746	123195	atccatactccagagaatcgagagg	M35662
37988	aatgtcaaatgccgaggagatgaga	AA008876	80592	gctgcaccaagccatgcgggctgct	U59746	123196	aattttgactaccctgcttggtctg	M35662
37989	cacctccgtctggctagtggaacac	AA008876	80593	gcaccaagccatgcgggctgctgga	U59746	123197	taccctgcttggtctggactcgaag	M35662
37990	ctccgtctggctagtggaacacacc	AA008876	80594	catgcgggctgctggagacgagttt	U59746	123198	gaactgcagtcacctaacgaagaca	M35662
37991	gatgatgcctgggacctacgggcag	AA008876	80595	agcccagcaacgcttcacccaggtt	U59746	123199	ctgcagtcacctaacgaagacactc	M35662
37992	tgggacctacgggcagccattgtcc	AA008876	80596	ctggggccgtcttgtggcattcttt	U59746	123200	cagtcacctaacgaagacactcatc	M35662
37993	gacctacgggcagccattgtcctgt	AA008876	80597	atctcaactctgtgtatctcaagtg	U69699	123201	cctaacgaagacactcatctttttg	M35662
37994	ctacgggcagccattgtcctgtgcc	AA008876	80598	ataacaatgaccaaacatctcgctg	U69699	123202	ttcagtgctgattggctagttcctc	J03484
37995	gcagccattgtcctgtgccgtcagc	AA008876	80599	atcacagataccagaagctgcaggt	U69699	123203	tggctagttcctctattccgagctc	J03484
37996	taattcgccagagatttgaaaacct	L38677	80600	tctactagctgtggaccccaagaaa	U69699	123204	attacgctccttcgacacagccatt	J03484
37997	gatttgaaaacctgctgtggtccag	L38677	80601	caagaaaggcctcttgtcttctcct	U69699	123205	cgacacagccattgcctttattgta	J03484
37998	aggtgtccatctatggcttctggcc	L38677	80602	cctgatgaagcagctccctgtgcct	U69699	123206	agccattgcctttattgtatagttc	J03484
37999	ccatctatggcttctggcccttctc	L38677	80603	gctccctgtgcctacaagggttcag	U69699	123207	tgcccgcacagaacagattgtttta	J03484
38000	ccttctcggtgaacatgcaagggga	L38677	80604	tgtgcctacaagggttcagaataaa	U69699	123208	gaattttcctttgattccaactgtg	J03484
38001	accctatcagtcaccactactatga	L38677	80605	tgtgtaccatcatgttcaaatcaca	U69699	123209	aactgtggccctttttcaatgtgcct	J03484
38002	actatgacaacgtcttgcccttctc	L38677	80606	ccatcatgttcaaatcacatcgaca	U69699	123210	ggccctttttcaatgtgccttcactt	J03484
38003	caggctaccatgccatgcctgagga	L38677	80607	aatcacatcgacagtgtgtttcatt	U69699	123211	ttcactttagctgtttgccttaatc	J03484
38004	accatgccatgcctgaggaattcct	L38677	80608	tttcattacggaatagctgaaatga	U69699	123212	ttagctgtttgccttaatctctaca	J03484
38005	ctgaggaattccttcagctttggta	L38677	80609	ttccttcctacaaatggaagactga	U69699	123213	gtttgccttaatctctacagccatt	J03484
38006	ttcagctttggtatcttcacaaaat	L38677	80610	ttataggacccattcgcctgaagag	U69699	123214	ctattccgagctcaccaccttaaca	J03484
38007	acccgtgtgaggagccgtcaccaca	L38677	80611	gacccattcgcctgaagagggaccg	U69699	123215	cgagctcaccaccttaacattttgg	J03484
38008	agatctataaccacagttacatcta	L38677	80612	caggacttctgcctcaaatacatga	U69699	123216	cttaacattttggtcacagttgcaa	J03484
38009	gcccacttcctagggactgcagaag	L38677	80613	gcctgtacctgttttccttcatggt	U69699	123217	attttggtcacagttgcaagaaaat	J03484
38010	acatgcctgccttttctatgaagac	L38677	80614	tcatggttcttgcgctaaatgtggt	U69699	123218	accagcatccttttgggtcaactcca	J03484
38011	cgtctctccgtgtgtattacacact	L38677	80615	agcatttcctaaatcggtggatgga	U69699	123219	tctccagcttttggctggtatattt	J03484
38012	tgtattacacactgaaagatgttgg	L38677	80616	tcctaaatcggtggatggatcacag	U69699	123220	agatgataccttattacgctccttc	J03484

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
38013	ttcttcggaacattggaaagttctg	L38677	80617	cactatcaaatgcaactcacaacac	U06662	123221	taccttattacgctccttcgacaca	J03484
38014	ggatccacgccaagcgcttgtctac	L38677	80618	tatcaaatgcaactcacaacaccac	U06662	123222	cgggacctcatcagccacgattcga	W34743
38015	acgccaagcgcttgtctacaggact	L38677	80619	agccaattgccaatatcttatgtct	U06662	123223	ggacctcatcagccacgattcgatg	W34743
38016	caggactctttttggtgagtgcagc	L38677	80620	caattgccaatatcttatgtctcag	U06662	123224	atctatcagatccgggagatagccg	W34743
38017	gtttccctccaggaccatgcgcggc	AA008951	80621	ccaatatcttatgtctcagcaaata	U06662	123225	ctatcagatccgggagatagccgac	W34743
38018	cctccaggaccatgcgcggctcgga	AA008951	80622	atatcttatgtctcagcaaatacag	U06662	123226	ttttgcctgcacgtggatcggcaga	W34743
38019	atccgcgcggcagtcactgggctgt	AA008951	80623	tcttatgtctcagcaaatacagacg	U06662	123227	ttgcctgcacgtggatcggcagatg	W34743
38020	agtcactgggctgtgggacacttaa	AA008951	80624	gtctcagcaaatacagacggatcta	U06662	123228	gcctgcacgtggatcggcagatggt	W34743
38021	gtcactgggctgtgggacacttaat	AA008951	80625	ggatctagcttccaaaacaagtata	U06662	123229	ctgcacgtggatcggcagatggtcc	W34743
38022	cactgggctgtgggacacttaatgg	AA008951	80626	agcttccaaaacaagtatactgaat	U06662	123230	gcacgtggatcggcagatggtccgt	W34743
38023	ccgtccctgtatgcggctgacagag	AA008951	80627	tatactgaattcctgctctagtatt	U06662	123231	tccgtatgcccgaaggtaacattga	W34743
38024	tccctgtatgcggctgacagagacg	AA008951	80628	actgaattcctgctctagtattggg	U06662	123232	cgtatgcccgaaggtaacattgatg	W34743
38025	ccctgtatgcggctgacagagacgg	AA008951	80629	tgaagtcaactgatctcccagccaa	U06662	123233	tatgcccgaaggtaacattgatgaa	W34743
38026	tatgcggctgacagagacggcctga	AA008951	80630	cagccaaccgtgcctttgatgttaa	U06662	123234	acctcatcagccacgattcgatgtt	W34743
38027	atgcggctgacagagacggcctgaa	AA008951	80631	ttaagtttgtcgatgtcttgccaaa	U06662	123235	ctcatcagccacgattcgatgttct	W34743
38028	ggtacgtccgctgggaagaagctgc	AA008951	80632	ttgtcgatgtcttgccaaaggaagt	U06662	123236	catcagccacgattcgatgttctcc	W34743
38029	tggctctggtcctctgccaggcgcc	AA008951	80633	ctgccaaagtcttttcatcagatgg	U06662	123237	tcagccacgattcgatgttctccga	W34743
38030	gggatttgctggacctcctagaagc	AA008951	80634	aaactgacctaacaagcagctttga	U06662	123238	agccacgattcgatgttctccgaca	W34743
38031	gcacggtcctggctaagatgtatcc	AA008951	80635	ctgacctaacaagcagctttgatac	U06662	123239	ccacgattcgatgttctccgacatc	W34743
38032	acggtcctggctaagatgtatccgc	AA008951	80636	taaagccaattgccaatatcttatg	U06662	123240	ttcgatgttctccgacatctatcag	W34743
38033	ctaagatgtatccgcgcggcagtca	AA008951	80637	tcggtgccagacacatttgccagca	U70033	123241	cgatgttctccgacatctatcagat	W34743
38034	agatgtatccgcgcggcagtcactg	AA008951	80638	ccagacacatttgccagcaaagtag	U70033	123242	gctatgagctgcccgacggggttcc	W34687
38035	atgtatccgcgcggcagtcactggg	AA008951	80639	gctttctctgtcactctcttcacta	U70033	123243	ctatgagctgcccgacggggttcca	W34687
38036	tgtatccgcgcggcagtcactgggc	AA008951	80640	ttcactatttttgctttcatcaacg	U70033	123244	gctcttcaagccttccttaatggga	W34687
38037	tatccgcgcggcagtcactgggctg	AA008951	80641	ctgtttgtgctcctgtggctcttgt	U70033	123245	cttcaagccttccttaatgggaatg	W34687
38038	gggcaaatcagcgctggctactcgc	L26479	80642	ctggaagcctactgccacataaagg	U70033	123246	caagccttccttaatgggaatgaat	W34687
38039	agcgctggctactcgccagtcatcg	L26479	80643	gcctactgccacataaagggcttct	U70033	123247	ccttccttaatgggaatgaattctg	W34687
38040	atgtctgcacctccgcttgtaagag	L26479	80644	gacatttgtcatgttcacttaaact	U70033	123248	ccctggtatcgctgaccgctatgca	W34687
38041	tctgcacctccgcttgtaagaggct	L26479	80645	tggaatccagcttcaagaacatccg	U70033	123249	tggtatcgctgaccgctatgcagaa	W34687
38042	agaggctctacgtcagcgactggat	L26479	80646	ccagcttcaagaacatccgtactag	U70033	123250	ggtatcgctgaccgctatgcagaag	W34687
38043	ggctctacgtcagcgactggatgct	L26479	80647	tcaagaacatccgtactaggccgga	U70033	123251	atcgctgaccgctatgcagaaggag	W34687
38044	tctacgtcagcgactggatgctcgc	L26479	80648	acatccgtactaggccggaagtcag	U70033	123252	cgctgaccgctatgcagaaggagtt	W34687
38045	tcagcgactggatgctcgccatcaa	L26479	80649	acatttgccagcaaagtagcagcta	U70033	123253	gctgaccgctatgcagaaggagttc	W34687
38046	actggatgctcgccatcaaagtcca	L26479	80650	tactaggccggaagtcagaaaccat	U70033	123254	atgagctgcccgacggggttccatc	W34687
38047	tgctcgccatcaaagtccagtggaa	L26479	80651	aaagtagcagctacccaggaccagt	U70033	123255	tgagctgcccgacggggttccatca	W34687
38048	tcgccatcaaagtccagtggaaatt	L26479	80652	acccaggaccagtatgcagatgcgt	U70033	123256	tgcccgacggggttccatcaccatc	W34687
38049	ccatcaaagtccagtggaaattctt	L26479	80653	tctataggcaatgtcactggaagca	U70033	123257	acggggttccatcaccatcggcaat	W34687
38050	gctggctactcgccagtcatcgact	L26479	80654	ctgggaatcggcgtggcctggtcca	U70033	123258	cggggttccatcaccatcggcaatg	W34687
38051	ggctactcgccagtcatcgactgtc	L26479	80655	tggtccattgctgccatctaccatg	U70033	123259	ggttccatcaccatcggcaatgagc	W34687
38052	tcgccagtcatcgactgtcacacgg	L26479	80656	attgctgccatctaccatgcggcca	U70033	123260	gaagctcttcaagccttccttaatg	W34687
38053	gtcatcgactgtcacacggcccaca	L26479	80657	gccatctaccatgcggccaacgggg	U70033	123261	aagctcttcaagccttccttaatgg	W34687
38054	aaggtcacaaaatccgcacagaagg	L26479	80658	acggctgcttctcgacccacgtctg	U37545	123262	aggataacagccacctaccagccca	J04064
38055	gtcacaaaatccgcacagaaggcgc	L26479	80659	cggcaccgcgaggtcctggacgcca	U37545	123263	gccagagctctctgtgatggcaagt	J04064
38056	tccgcacagaaggcgcagaaagcgg	L26479	80660	gaggccacgccacgacggactca	U37545	123264	gcccacatcaaacagaactgcctga	J04064
38057	cgcatgtctgcacctccgcttgtaa	L26479	80661	acacggactcaggccacgccacgat	U37545	123265	cagaactgcctgagcagccgggcct	J04064
38058	tttgaatgtcccactggactaacct	U19854	80662	cacggactcaggccacgccacgatg	U37545	123266	agcagccgggcctcattccggggct	J04064
38059	tattccacaagggttaagtcaatga	U19854	80663	cggactcaggccacgccacgatgaa	U37545	123267	cgggcctcattccggggctgtgtga	J04064
38060	ggtttctgctggccctgcagcttgc	U19854	80664	aggccacgccacgatgaagcaggac	U37545	123268	agccgagcctttgacctacaaggag	J04064
38061	agcttgcttccctgcggattaggcc	U19854	80665	gccacgccacgatgaagcaggacgc	U37545	123269	actgtcgccagcctctgcccttgga	J04064
38062	cttccctgcggattaggcctttgct	U19854	80666	cacgcccacgatgaagcaggacacg	U37545	123270	gccagcctctgcccttggaatcatc	J04064
38063	ggattaggcctttgctcatgctata	U19854	80667	cactatagaggccacgccaaccacg	U37545	123271	ccttggaatcatcgccaacgcatgg	J04064
38064	ctttgctcatgctatagccttcatg	U19854	80668	ctatagaggccacgccaaccacgac	U37545	123272	cattgccatctcaggttatgtttcc	J04064
38065	tgctcatgctatagccttcatgtgg	U19854	80669	tatagaggccacgccaaccacgacc	U37545	123273	acaacagatacctctattaaatggt	J04064
38066	tatagccttcatgtgggtgctacct	U19854	80670	aggtcctggacgccatcgacgccgc	U37545	123274	gctctctgtgatggcaagtggcaca	J04064
38067	agccttcatgtgggtgctacctaga	U19854	80671	gccccgcggcacctgatgtggaagc	U37545	123275	caagcccacaaaagcaagcaccgca	J04064
38068	cttcatgtgggtgctacctagagca	U19854	80672	ccccgcggcacctgatgtggaagcc	U37545	123276	cacaaaagcaagcaccgcatcgtcc	J04064
38069	gctacctagagcaggcgtgaactgc	U19854	80673	ccgcggcacctgatgtggaagccgt	U37545	123277	caccgcatcgtcctgactgtggacg	J04064
38070	aagcacaatcagtctttcctttgaa	U19854	80674	cacctgatgtggaagccgtggctgc	U37545	123278	atcgtcctgactgtggacgggaatt	J04064
38071	cacaatcagtctttcctttgaaaat	U19854	80675	acctgatgtggaagccgtggctgca	U37545	123279	tcggcagacaccaacgatcccattt	J04064
38072	tttctttggggaacatgcagttttg	U19854	80676	gcgatgacgacgcccactacggagg	U37545	123280	gacaccaacgatcccatttatgtgg	J04064
38073	tcctctggcaccctggcttgttgaa	U19854	80677	actacggaggccacgccacgacacg	U37545	123281	ggtggctatcctgcccacatcaaac	J04064
38074	tctggcaccctggcttgttgaaagg	U19854	80678	tgcttggatatccaggttcgagaaa	AA098138	123282	ctttttctgtctcagatcagtgtcc	W34915
38075	aaggtggctttagctgtgtgctgtg	U19854	80679	tggatatccaggttcgagaaaccca	AA098138	123283	ttttctgtctcagatcagtgtccct	W34915
38076	tgctgtgtacctgcttacgtggcct	U19854	80680	acatgaacgtgcagtgccatgcctg	AA098138	123284	atgccagtgggcaagcactgagttg	W34915
38077	gtacctgcttacgtggcctgctgtc	U19854	80681	aggacatccggaagctggactacgg	AA098138	123285	caaaccgccgtgcctaaggactctg	W34915
38078	ccaccacttagagacagctgaaatt	U49251	80682	gacatccggaagctggactacgggc	AA098138	123286	cgtgcctaaggactctgtcaggccc	W34915
38079	gagcattaatccccctggaaataga	U49251	80683	tccggaagctggactacgggcagca	AA098138	123287	tgcctaaggactctgtcaggcccgt	W34915
38080	atactttggctctcctgtaaatcaa	U49251	80684	agctggactacgggcagcacgtggt	AA098138	123288	taaggactctgtcaggcccgtctgg	W34915

TABLE 1

SEQ ID NO	sequence	DBAxnID
38081	tggctctcctgtaaatcaaatgttg	U49251
38082	ctctcctgtaaatcaaatgttgtga	U49251
38083	atttatacaagtacacactccactg	U49251
38084	tatacaagtacacactccactgaga	U49251
38085	acaagtacacactccactgagaatc	U49251
38086	acacactccactgagaatcgttttg	U49251
38087	tgctcgtttgtatcgtctgtgtata	U49251
38088	tcgtttgtatcgtctgtgtataaca	U49251
38089	tttgtatcgtctgtgtataacaagt	U49251
38090	gaaatatgcatcatacacaatattc	U49251
38091	atatgcatcatacacaatattcaat	U49251
38092	tgcatcatacacaatattcaatcta	U49251
38093	atacacaatattcaatctagattcc	U49251
38094	aatattcaatctagattccagtcta	U49251
38095	attcaatctagattccagtctatgg	U49251
38096	caatctagattccagtctatggggg	U49251
38097	ggtatactttggctctcctgtaaat	U49251
38098	tccatggctatccttgcacagcgct	AA009058
38099	atggctatccttgcacagcgctgta	AA009058
38100	attgctgtagttgctagagtcgtgc	AA009058
38101	gttgctagagtcgtgcagagcattc	AA009058
38102	gtgcagagcattctctatggcgact	AA009058
38103	cagagcattctctatggcgactact	AA009058
38104	agcattctctatggcgactacttct	AA009058
38105	attctctatggcgactacttctaat	AA009058
38106	ctctatggcgactacttctaattgt	AA009058
38107	tatggcgactacttctaattgtaga	AA009058
38108	ggcgactacttctaattgtagatta	AA009058
38109	gactacttctaattgtagattacaa	AA009058
38110	gctatccttgcacagcgctgtatga	AA009058
38111	cactatgtattcttaatgggcctct	AA009058
38112	gtattcttaatgggcctctacggcg	AA009058
38113	tacggcgctctgtacatgatcaaat	AA009058
38114	tactttgatctgattgctgtagttg	AA009058
38115	tttgatctgattgctgtagttgcta	AA009058
38116	gatctgattgctgtagttgctagag	AA009058
38117	ctgattgctgtagttgctagagtcg	AA009058
38118	agatcttcaggacagcagactctga	L40156
38119	tcaggacagcagactctgaaaagcc	L40156
38120	ctttcctgagtatgacagatgtggg	L40156
38121	gagagcccctggtctattctaattg	L40156
38122	agcccaacaacaatggtggagcaga	L40156
38123	agatcttcaccaatgggcaatggaa	L40156
38124	agcagcgccttgttatctgtgagtt	L40156
38125	ttatctgtgagttctgagccactgg	L40156
38126	tgtactatggctcagacctgtatgt	L40156
38127	atggctcagacctgtatgttgccaa	L40156
38128	tgtatgttgccaacatcctaataaa	L40156
38129	ttgccaacatcctaataaaaggtgt	L40156
38130	actctgaaaagccttttgaggatgc	L40156
38131	cttttgaggatgcccaggagatgtg	L40156
38132	aggatgcccaggagatgtgcaaaca	L40156
38133	cacgttctgctactgagaatgctgc	L40156
38134	atgctgccatacagcaactcatcac	L40156
38135	cagcccacaacaaggctgctttcct	L40156
38136	acaacaaggctgctttcctgagtat	L40156
38137	aggctgctttcctgagtatgacaga	L40156
38138	actgaagcagctgatgcgggagttt	AA009086
38139	tgaagcagctgatgcgggagtttaa	AA009086
38140	aggagatactcgatgcccgtgaaga	AA009086
38141	gagatactcgatgcccgtgaagaag	AA009086
38142	tactcgatgcccgtgaagaagaaat	AA009086
38143	ctcgatgcccgtgaagaagaaatga	AA009086
38144	tgacggacctgcagacccagctcga	AA009086
38145	ggacctgcagacccagctcgaggag	AA009086
38146	acctgcagacccagctcgaggagct	AA009086
38147	acccagctcgaggagctccagaaga	AA009086
38148	ccagctcgaggagctccagaagaaa	AA009086
80685	acgcagggacgcgtctgtgatatga	AA098138
80686	agggacgcgtctgtgatatgatccg	AA098138
80687	gtgatatgatccgccggagaagttt	AA098138
80688	tatgatccgccggagaagtttactg	AA098138
80689	tgatccgccggagaagtttactgac	AA098138
80690	ttcgagaaacccaagctttgatcct	AA098138
80691	cgagaaacccaagctttgatcctgg	AA098138
80692	acccaagctttgatcctggctccaa	AA098138
80693	aagctttgatcctggctccaaccag	AA098138
80694	gctttgatcctggctccaaccaggg	AA098138
80695	tgatcctggctccaaccagggaatt	AA098138
80696	tggctccaaccagggaattagcggt	AA098138
80697	gctccaaccagggaattagcggtgc	AA098138
80698	ctagctttcatttcgaagtctttga	U50712
80699	ttcatttcgaagtctttgacctcaa	U50712
80700	gcaccccagtcacgtgctgttataa	U50712
80701	cagtcacgtgctgttataatgttgt	U50712
80702	agaagattcacgtccggaagctgaa	U50712
80703	gtccccgggaagctgtgatcttcag	U50712
80704	ctgtgatcttcaggaccatactgga	U50712
80705	taaaccacttggataagacgtctca	U50712
80706	ataagacgtctcaaaccttcatcct	U50712
80707	tcatccttgaaccttcatgtctagg	U50712
80708	ttgaaccttcatgtctaggctgaga	U50712
80709	cttcatgtctaggctgagagttcca	U50712
80710	tctttgacctcaacatgaagatttc	U50712
80711	acctcaacatgaagatttccacact	U50712
80712	agatttccacacttctatgcctcct	U50712
80713	ttctatgcctcctgctcatagctac	U50712
80714	tgctcatagctaccaccatcagtcc	U50712
80715	tagctaccaccatcagtcctcaggt	U50712
80716	tcagtcctcaggtattggctggacc	U50712
80717	ctggaccagatgcggtgagcacccc	U50712
80718	aaggctccaggaggcactgacaaga	U58533
80719	gctccaggaggcactgacaagagca	U58533
80720	cttaccccacgacgggtgagctctg	U58533
80721	caactctccctggagcaccgagatt	U58533
80722	ctctccctggagcaccgagattcct	U58533
80723	tccctggagcaccgagattcctgag	U58533
80724	ctggagcaccgagattcctgagagc	U58533
80725	caccgagattcctgagagctatggg	U58533
80726	gattcctgagagctatgggcacggg	U58533
80727	cactccctgagcttttgctgcctta	U58533
80728	tccctgagcttttgctgccttaacc	U58533
80729	ctgagcttttgctgccttaaccgcc	U58533
80730	actgacatcagtgacgaagatgagg	U58533
80731	aagccagagcccggagaggcaccgg	U58533
80732	tgcatgccccttaaactgcgcttta	U58533
80733	cttaaactgcgctttaagcggcgct	U58533
80734	aaactgcgctttaagcggcgctgga	U58533
80735	cgctttaagcggcgctggagtgaag	U58533
80736	tttaagcggcgctggagtgaagact	U58533
80737	aagcggcgctggagtgaagactgtc	U58533
80738	cagatgcaccatcaagcctgccacg	U78312
80739	atgcaccatcaagcctgccacgaga	U78312
80740	acatagctagagcctgtgttctgtg	U78312
80741	tgtgcttccaagggagttctgaaga	U78312
80742	gcttccaagggagttctgaagaagg	U78312
80743	gccacacaaacattgggacttcttt	U78312
80744	taaatccagcttttattgttaggtg	U78312
80745	actttattagatgcctgcgctggga	U78312
80746	tgtagacgttcctaaatcttcttga	U78312
80747	agacgttcctaaatcttcttgagtg	U78312
80748	taaatcttcttgagtgcattatgta	U78312
80749	atcttcttgagtgcattatgtatta	U78312
80750	gcctgccacgagaagaaggggactt	U78312
80751	cagggtcttcacttactcagcgagt	U78312
80752	cacttactcagcgagtgattattgg	U78312
123289	gactctgtcaggcccgtctggtagc	W34915
123290	ctctgtcaggcccgtctggtagcca	W34915
123291	tctggtagccacagccctagagtga	W34915
123292	tggtagccacagccctagagtgaag	W34915
123293	gtagccacagccctagagtgaaggg	W34915
123294	ttctgtctcagatcagtgtccctca	W34915
123295	ctgtctcagatcagtgtccctcaaa	W34915
123296	ctcagatcagtgtccctcaaatgtg	W34915
123297	cagatcagtgtccctcaaatgtggc	W34915
123298	gatcagtgtccctcaaatgtggccc	W34915
123299	tcagtgtccctcaaatgtggcccaa	W34915
123300	tgtccctcaaatgtggcccaaggga	W34915
123301	gggctgatgccagtgggcaagcact	W34915
123302	tgcgtgtccgggcattaattgaagc	X16705
123303	gctctccctagatgggcggtctgct	X16705
123304	ttggtcaactacttctcttacattg	X16705
123305	aactacttctcttacattgttgact	X16705
123306	tacttctcttacattgttgactcat	X16705
123307	ttctcttacattgttgactcatgag	X16705
123308	aaggctttctcttcaaattcgctag	X16705
123309	gctttctcttcaaattcgctagttg	X16705
123310	ttctcttcaaattcgctagttgagt	X16705
123311	tgcttacatttcttatccgacatta	X16705
123312	ttacatttcttatccgacattaaca	X16705
123313	catttcttatccgacattaacaaat	X16705
123314	ctccctagatgggcggtctgctctc	X16705
123315	cggtccttctctgctctctataaaa	X16705
123316	ttctctgctctctataaaatggtgc	X16705
123317	ttaatctagtcacccatgtacgcac	X16705
123318	tagtcacccatgtacgcactctgga	X16705
123319	tacgcactctggatggaggttctac	X16705
123320	gttctacagagctgttgattggtca	X16705
123321	ctacagagctgttgattggtcaact	X16705
123322	ggatgctgcacatactgactgatgt	W34929
123323	tgcacatactgactgatgtatccgc	W34929
123324	tgaataacacgctgaactacgacct	W34929
123325	acacgctgaactacgacctgaccgg	W34929
123326	cgctgaactacgacctgaccggcga	W34929
123327	tgaactacgacctgaccggcgacgc	W34929
123328	tgctcaagacagtcgacggcaatgt	W34929
123329	cagtcgacggcaatgtcaagaacga	W34929
123330	acgactatgtctaaccagctgactt	W34929
123331	atgtctaaccagctgacttcatgga	W34929
123332	atgtcatctacatcgtctagatcag	W34929
123333	tctacatcgtctagatcagcgataa	W34929
123334	tactgactgatgtatccgctcaaca	W34929
123335	ccgctcaacatacgtctgccagcta	W34929
123336	cgtctgccagctagcatcgcttgag	W34929
123337	ctgccagctagcatcgcttgagaca	W34929
123338	atcgcttgagacaatgcatggcgct	W34929
123339	aatgcatggcgctcgacatctacat	W34929
123340	cgctcgacatctacatgaataacac	W34929
123341	tctacatgaataacacgctgaacta	W34929
123342	taagcgtaaagctgcccagaactct	M15525
123343	gcgtaaagctgcccagaactctggg	M15525
123344	cagcaagctccagctgttggaagac	M15525
123345	caagctccagctgttggaagactta	M15525
123346	tgcggtttacagcacctgcttataa	M15525
123347	ttacagcacctgcttataacaggaa	M15525
123348	cagcacctgcttataacaggaaggg	M15525
123349	taaaccacacgcgcaaaccgaggca	M15525
123350	acacgcgcaaaccgaggcagtcatc	M15525
123351	cgcgcaaaccgaggcagtcatctac	M15525
123352	gcaaaccgaggcagtcatctacaaa	M15525
123353	agtcatctacaaataacccatcatc	M15525
123354	agagtcagcagatgccaggaggaaa	M15525
123355	agctgagctgctacaaaatgaagca	M15525
123356	agcaaaaacactcttggctcaagct	M15525

TABLE 1

SEQ ID NO	sequence	DBAxnID
38149	agctcgaggagctccagaagaaata	AA009086
38150	agtttaacacacaactggcacagaa	AA009086
38151	tttaacacacaactggcacagaagg	AA009086
38152	acacaactggcacagaaggagcagg	AA009086
38153	accattgataaggcccaagaggtgg	AA009086
38154	cattgataaggcccaagaggtggaa	AA009086
38155	ttgataaggcccaagaggtggaagc	AA009086
38156	gaacttctggaaagccaccaagaag	AA009086
38157	acttctggaaagccaccaagaagag	AA009086
38158	atatctcagttaatatcgtgctatc	AA009095
38159	ttaatatcgtgctatcggtctgtta	AA009095
38160	taatgcttggtggcactgtacccca	AA009095
38161	atgcttggtggcactgtaccccagt	AA009095
38162	gtggcactgtaccccagtgctccaa	AA009095
38163	ggcactgtaccccagtgctccaagg	AA009095
38164	gcactgtaccccagtgctccaaggg	AA009095
38165	ctgtaccccagtgctccaaggggat	AA009095
38166	agtgctccaaggggatttgtcctca	AA009095
38167	gggatttgtcctcactagcggtctt	AA009095
38168	ggatttgtcctcactagcggtcttt	AA009095
38169	tgtcctcactagcggtcttttaaag	AA009095
38170	aatatcgtgctatcggtctgttaca	AA009095
38171	atatcgtgctatcggtctgttacaa	AA009095
38172	gtgctatcggtctgttacaacctga	AA009095
38173	ctatcggtctgttacaacctgatgc	AA009095
38174	gattagaacatcttctacttcgacc	AA009095
38175	attagaacatcttctacttcgacct	AA009095
38176	tgaacagggatcccgaagggcaata	AA009095
38177	ataatgcttggtggcactgtacccc	AA009095
38178	catcagactctccttagaacaagcc	U39643
38179	tgagcctgttagcaagcttcggatt	U39643
38180	gagcacctttcctaggagagatgta	U39643
38181	aactcagctagaccccaataagtca	U39643
38182	gctagaccccaataagtcattattg	U39643
38183	tggaagcagccactcctgacgagcc	U39643
38184	ctcctgacgagccagcggcacgtgt	U39643
38185	acgagccagcggcacgtgtcaagag	U39643
38186	cagcggcacgtgtcaagagatgggc	U39643
38187	tcgtgtcactcagttcaatgtcaca	U39643
38188	cactcagttcaatgtcacacttctg	U39643
38189	gcctcttgcaagattgctggaaaaa	U39643
38190	tgttagcaagcttcggattcgaacc	U39643
38191	tcggattcgaacccccagtggcgag	U39643
38192	cctggccagcaataagctccagatt	U39643
38193	cagcaataagctccagattgtcttt	U39643
38194	taagctccagattgtctttgatttc	U39643
38195	tgatttcgtggcttccaagggattt	U39643
38196	ttccaagggatttccatgggatgaa	U39643
38197	gttactgagcacctttcctaggaga	U39643
38198	caaagcctacgacaacctcttcaag	AA009096
38199	gcctacgacaacctcttcaagttgc	AA009096
38200	ctgatcattcgctttgcagaggaaa	AA009096
38201	gatcattcgctttgcagaggaaaat	AA009096
38202	tcattcgctttgcagaggaaaattt	AA009096
38203	attcgctttgcagaggaaaatttca	AA009096
38204	aagcatttaaatctctaccatcgga	AA009096
38205	gcatttaaatctctaccatcggaat	AA009096
38206	atttaaatctctaccatcggaattg	AA009096
38207	ttaaatctctaccatcggaattgat	AA009096
38208	aaatctctaccatcggaattgattt	AA009096
38209	ctctaccatcggaattgatttcaag	AA009096
38210	gacaacctcttcaagttgctgctca	AA009096
38211	caacctcttcaagttgctgctcatc	AA009096
38212	ctcttcaagttgctgctcatcgggg	AA009096
38213	cttcaagttgctgctcatcggggat	AA009096
38214	agactggtctgatcattcgctttgc	AA009096
38215	actggtctgatcattcgctttgcag	AA009096
38216	tggtctgatcattcgctttgcagag	AA009096

SEQ ID NO.	sequence	DBAxnID
80753	ttactcagcgagtgattattggccg	U78312
80754	tgattattggccgcagttatcagag	U78312
80755	ttggccgcagttatcagagtaagga	U78312
80756	tggacttcaacatagctagagcctg	U78312
80757	tcaacatagctagagcctgtgttct	U78312
80758	ctccacctggcttgcagacaaactg	U58974
80759	caaactgccttgagacagtgaccga	U58974
80760	tttttctgctattgtgactgtgaag	U58974
80761	ggaaacactgttcactctgagcgac	U58974
80762	actgttcactctgagcgaccatttc	U58974
80763	cactctgagcgaccatttcgtttta	U58974
80764	atttttctggagtcaatggcttgtt	U58974
80765	tcaatggcttgttcagcatccagat	U58974
80766	tcagcatccagatgtggctgttgac	U58974
80767	tgttgacatatctacacttcgcacc	U58974
80768	tacacttcgcaccggagtgactgga	U58974
80769	tcgcaccggagtgactggaattgtg	U58974
80770	tggttctgctgccctactcaagcag	U58974
80771	tgctgccctactcaagcagggtggc	U58974
80772	aatgggcactccagggacacagctt	U58974
80773	cactccagggacacagcttgggaca	U58974
80774	acagtctcacacagcctcttctaat	U58974
80775	tcacacagcctcttctaatgggctc	U58974
80776	ttctaatgggctctcggggccattt	U58974
80777	tgtaataacagctgcaggtttttct	U58974
80778	aatcaagtccacaggaagtcctgtg	AA098231
80779	gtaaatccagtcttggctaaaagct	AA098231
80780	ctgggccccaagaacggatcattca	AA098231
80781	tgggccccaagaacggatcattcaa	AA098231
80782	tgagattactaaaccacgcattgag	AA098231
80783	agattactaaaccacgcattgagta	AA098231
80784	gattactaaaccacgcattgagtat	AA098231
80785	ttactaaaccacgcattgagtatgg	AA098231
80786	ctaaaccacgcattgagtatggaga	AA098231
80787	taaaccacgcattgagtatggagaa	AA098231
80788	aaccacgcattgagtatggagaata	AA098231
80789	accacgcattgagtatggagaatag	AA098231
80790	aatccagtcttggctaaaagctcct	AA098231
80791	cttggctaaaagctccttctcagtg	AA098231
80792	ggctaaaagctccttctcagtgact	AA098231
80793	gctaaaagctccttctcagtgactt	AA098231
80794	aagctccttctcagtgacttgtacc	AA098231
80795	agctccttctcagtgacttgtaccg	AA098231
80796	ctgctgggccccaagaacggatcat	AA098231
80797	tgctgggccccaagaacggatcatt	AA098231
80798	actggtcatagctactcgcggcatg	AA098277
80799	ctggtcatagctactcgcggcatgt	AA098277
80800	actcgcggcatgtggacgattggaa	AA098277
80801	tcgcggcatgtggacgattggaaca	AA098277
80802	gaacaggaactcggtgcgtggatgc	AA098277
80803	aacaggaactcggtgcgtggatgca	AA098277
80804	acaggaactcggtgcgtggatgcaa	AA098277
80805	aggaactcggtgcgtggatgcaatg	AA098277
80806	ggaactcggtgcgtggatgcaatgc	AA098277
80807	gaactcggtgcgtggatgcaatgct	AA098277
80808	actcggtgcgtggatgcaatgctgg	AA098277
80809	ctcggtgcgtggatgcaatgctggt	AA098277
80810	ggtcatagctactcgcggcatgtgg	AA098277
80811	gtcatagctactcgcggcatgtgga	AA098277
80812	tcatagctactcgcggcatgtggac	AA098277
80813	atagctactcgcggcatgtggacga	AA098277
80814	tagctactcgcggcatgtggacgat	AA098277
80815	agctactcgcggcatgtggacgatt	AA098277
80816	ctactcgcggcatgtggacgattgg	AA098277
80817	tactcgcggcatgtggacgattgga	AA098277
80818	acccaaagtcatcattgtgcaggcc	U59463
80819	accccagttgtgcagaggtgtagat	U59463
80820	ctttgatatattcctgaaggtgcaa	U59463

SEQ ID NO	sequence	DBAxnID
123357	aacactcttggctcaagctaacagc	M15525
123358	cttggctcaagctaacagcaagctc	M15525
123359	ggctcaagctaacagcaagctccag	M15525
123360	tcaagctaacagcaagctccagctg	M15525
123361	taacagcaagctccagctgttggaa	M15525
123362	gcttacctgttcctcaggtagccag	W34891
123363	ttacctgttcctcaggtagccagcc	W34891
123364	ggcgcgtctccatggaggatgctca	W34891
123365	cgcgtctccatggaggatgctcaca	W34891
123366	ggatgctcacaactgtattcctgag	W34891
123367	gctcacaactgtattcctgagctgg	W34891
123368	tcacaactgtattcctgagctggac	W34891
123369	aactgtattcctgagctggacaatg	W34891
123370	ctgtattcctgagctggacaatgag	W34891
123371	gtattcctgagctggacaatgagac	W34891
123372	attcctgagctggacaatgagacag	W34891
123373	gagacagccatgttttctgtctacg	W34891
123374	ctgttcctcaggtagccagccatcc	W34891
123375	cagccatgttttctgtctacgatgg	W34891
123376	gttcctcaggtagccagccatccgc	W34891
123377	tctctcagcccaacacggtgaagtg	W34891
123378	agcccaacacggtgaagtgctccgg	W34891
123379	acggcttctccgccatgcaaggctg	W34891
123380	cttctccgccatgcaaggctggcgc	W34891
123381	ccatgcaaggctggcgcgtctccat	W34891
123382	atgcaaggctggcgcgtctccatgg	W34891
123383	gctcgtgaccgtgatggttggcagc	W64791
123384	cgtgaccgtgatggttggcagcccc	W64791
123385	cttggagcctggaatcccacagtgg	W64791
123386	aatcccacagtgggccaattatgtc	W64791
123387	gattcaacattacccagcttccccg	W64791
123388	gctcgttggcttcagtgcagtggtg	W64791
123389	cgttggcttcagtgcagtggtggtc	W64791
123390	gctttccagctcagcgtctctggaa	W64791
123391	cagctcagcgtctctggaagtggcc	W64791
123392	gtctctggaagtggccacgtacacc	W64791
123393	agtggccacgtacaccttcatccag	W64791
123394	ggccacgtacaccttcatccagcag	W64791
123395	tgggcttgtttctcttctcaccact	W64791
123396	tctcaccacttccaaagatgcagac	W64791
123397	cacttccaaagatgcagacgacccc	W64791
123398	actgccctcagcccagtggtccttg	W64791
123399	ctcagcccagtggtccttggagcct	W64791
123400	agcccagtggtccttggagcctgga	W64791
123401	ccagtggtccttggagcctggaatc	W64791
123402	gtccttggagcctggaatcccacag	W64791
123403	ggttaggctgcacacttaagaagca	M25244
123404	acacaggcacgcacagggtcaacct	M25244
123405	gagctgccacttttcctaaatagaaa	M25244
123406	tttccagtcttgtgttggcgttcag	M25244
123407	tgttggcgttcagggtggccctgtc	M25244
123408	ctctgcactgtgtacaataatagat	M25244
123409	aatagattcacactgctgacgtgtc	M25244
123410	tgtacactgggcatcagctcacgta	M25244
123411	ctgggcatcagctcacgtaatgcat	M25244
123412	atcagctcacgtaatgcattgcctg	M25244
123413	tcacgtaatgcattgcctgtaacga	M25244
123414	aatgcattgcctgtaacgatgctaa	M25244
123415	gcacgcacagggtcaacctctggac	M25244
123416	acagggtcaacctctggacacttgg	M25244
123417	tcaacctctggacacttggcttggg	M25244
123418	cacttggcttgggctacctggcctt	M25244
123419	actctggcatctggctgggtacaca	M25244
123420	caatttctgtgctctgccacccgtg	M25244
123421	ctgtgctctgccacccgtgagctgc	M25244
123422	tctgccacccgtgagctgccacttt	M25244
123423	agccaagcaggacccctgatccttc	W34969
123424	caagcaggacccctgatccttccag	W34969

TABLE 1

SEQ ID NO	sequence	DBAxnID
38217	gtctgatcattcgctttgcagagga	AA009096
38218	tactcgaagctgttgcgggaaacaa	AA009112
38219	ctcgaagctgttgcgggaaacaatc	AA009112
38220	ttggtactacagtctggaagcaacc	AA009112
38221	tactacagtctggaagcaaccagga	AA009112
38222	agtctggaagcaaccaggagcccct	AA009112
38223	ttttgtaaattccggccattgcatt	AA009112
38224	ttgtaaattccggccattgcattta	AA009112
38225	gtaaattccggccattgcatttaag	AA009112
38226	aaattccggccattgcatttaagag	AA009112
38227	attccggccattgcatttaagagac	AA009112
38228	tccggccattgcatttaagagacca	AA009112
38229	atttaagagaccatgcgcgtgtatt	AA009112
38230	tgcataaatggcccggatgacggca	AA009112
38231	ttaagagaccatgcgcgtgtattct	AA009112
38232	cataaatggcccggatgacggcagt	AA009112
38233	taaatggcccggatgacggcagtgt	AA009112
38234	aatggcccggatgacggcagtgttg	AA009112
38235	ttgccagtctggtcattggcccggt	AA009112
38236	tcattggcccggtgttggtactaca	AA009112
38237	tggcccggtgttggtactacagtct	AA009112
38238	tgttggtactacagtctggaagcaa	AA009112
38239	ccatgcgcacgcttgcagctcacga	U40189
38240	gatcaacagcatgctcatgacaatg	U40189
38241	gtgccacctgttggccatggcttcc	U40189
38242	ggccatggcttccacctgtgtcaac	U40189
38243	catctatggctttctcaacatcaac	U40189
38244	tggctttctcaacatcaacttcaag	U40189
38245	tatcaaggctctggtgctgacctgc	U40189
38246	ggtgctgacctgccattgcaggtca	U40189
38247	cctctccaagggatcgatgaggatg	U40189
38248	acacattgcaggctgtgatagcatc	U40189
38249	ctgtgatagcatcctgtcatttctg	U40189
38250	tagcatcctgtcatttctggctttt	U40189
38251	ggtgactgcctttgcagttctctgg	U40189
38252	aagcttggcattcagatggtttagc	U40189
38253	gctacccctgcatgtgttcaacact	U40189
38254	cctgcatgtgttcaacactctggag	U40189
38255	tgtgttcaacactctggaggactgg	U40189
38256	ggaagccatccctgcttgccatggc	U40189
38257	tgcttgccatggcaacctcatcttc	U40189
38258	ccatggcaacctcatcttcttgatg	U40189
38259	catcttcttgatgtgccacctgttg	U40189
38260	cccttcctgtatctggaccagtgac	AA155442
38261	ccttcctgtatctggaccagtgaca	AA155442
38262	gaccagtgacagctcctgttcccag	AA155442
38263	accagtgacagctcctgttcccagg	AA155442
38264	ccagtgacagctcctgttcccaggc	AA155442
38265	cagtgacagctcctgttcccaggcc	AA155442
38266	tcggccgtttcctcaggagaaggag	AA155442
38267	ggccgtttcctcaggagaaggagct	AA155442
38268	cgtttcctcaggagaaggagctaat	AA155442
38269	gtttcctcaggagaaggagctaata	AA155442
38270	tatcccaacttcgccaggtcctaga	AA155442
38271	atcccaacttcgccaggtcctagag	AA155442
38272	ttcctgtatctggaccagtgacagc	AA155442
38273	cctgtatctggaccagtgacagctc	AA155442
38274	ctgtatctggaccagtgacagctcc	AA155442
38275	tgtatctggaccagtgacagctcct	AA155442
38276	gtatctggaccagtgacagctcctg	AA155442
38277	atctggaccagtgacagctcctgtt	AA155442
38278	tctggaccagtgacagctcctgttc	AA155442
38279	tggaccagtgacagctcctgttccc	AA155442
38280	tccactcagtcctcagaatcgtggg	AA009148
38281	cagtcctcagaatcgtggggtcagt	AA009148
38282	atgtacatgcagcgattcattgaca	AA009148
38283	tacatgcagcgattcattgacagtg	AA009148
38284	ttcattgacagtgatgcgaaaatca	AA009148
80821	aagtattcattcccagatgcccacc	U59463
80822	tcattcccagatgcccaccattgat	U59463
80823	ccagatgcccaccattgatcgggca	U59463
80824	gcccaccattgatcgggcaaccttg	U59463
80825	ctttcctggcaactgagaacaaagc	U59463
80826	gcaactgaatctcatttcttcagct	U59463
80827	tcttggccaaggatcacattctatt	U59463
80828	atgaattcaagaccagcctaagcaa	U59463
80829	tctgttccatagacaagcaaacaag	U59463
80830	agctgatgctgtcaagctgagccac	U59463
80831	tgctgtcaagctgagccacgtggag	U59463
80832	gaaggacttcattgccttctactct	U59463
80833	cttcattgccttctactctacaacc	U59463
80834	aggaggctcttacttcatcactaga	U59463
80835	ctcttacttcatcactagactcatt	U59463
80836	cttccggaaacatgcttgctcttgt	U59463
80837	tcatctctttgatatattcctgaag	U59463
80838	tgagcgtagcatctacactgacaac	AA098292
80839	gagcgtagcatctacactgacaacc	AA098292
80840	actgacaaccggcagattggcaccg	AA098292
80841	cgttagtatacggtccaggatgaga	AA098292
80842	ggtaaccctatcatctgtctcctgc	AA098292
80843	gtaaccctatcatctgtctcctgcg	AA098292
80844	atctgtctcctgcggatgggacaag	AA098292
80845	aaactggctaacatgactctataga	AA098292
80846	aactggctaacatgactctatagac	AA098292
80847	ctggctaacatgactctatagacca	AA098292
80848	tggctaacatgactctatagaccag	AA098292
80849	ggctaacatgactctatagaccagc	AA098292
80850	agcgtagcatctacactgacaaccg	AA098292
80851	ctaacatgactctatagaccagcca	AA098292
80852	gcgtagcatctacactgacaaccgg	AA098292
80853	gtagcatctacactgacaaccggca	AA098292
80854	tagcatctacactgacaaccggcag	AA098292
80855	agcatctacactgacaaccggcaga	AA098292
80856	gcatctacactgacaaccggcagat	AA098292
80857	tacactgacaaccggcagattggca	AA098292
80858	cactgacaaccggcagattggcacc	AA098292
80859	agtatactgccatgcaaacggtttt	AA098301
80860	gtatactgccatgcaaacggtttta	AA098301
80861	aagcctttgcttggcagtgtagtct	AA098301
80862	agcctttgcttggcagtgtagtctc	AA098301
80863	gcctttgcttggcagtgtagtctcc	AA098301
80864	cctttgcttggcagtgtagtctcca	AA098301
80865	ctttgcttggcagtgtagtctccat	AA098301
80866	tttgcttggcagtgtagtctccata	AA098301
80867	ttgcttggcagtgtagtctccatat	AA098301
80868	cagtgtagtctccatatccataaaa	AA098301
80869	agtgtagtctccatatccataaaag	AA098301
80870	gtgtagtctccatatccataaaaga	AA098301
80871	tatactgccatgcaaacggttttac	AA098301
80872	tactgccatgcaaacggttttacca	AA098301
80873	actgccatgcaaacggttttaccag	AA098301
80874	ctgccatgcaaacggttttaccaga	AA098301
80875	ccatgcaaacggttttaccagattg	AA098301
80876	catgcaaacggttttaccagattga	AA098301
80877	taaagcctttgcttggcagtgtagt	AA098301
80878	aaagcctttgcttggcagtgtagtc	AA098301
80879	aaggaagccaccatttggctcaagc	AA098111
80880	aggaagccaccatttggctcaagct	AA098111
80881	tttggctcaagcttgaggaatgtga	AA098111
80882	tggctcaagcttgaggaatgtgaaa	AA098111
80883	tgaaattgccagggttatggattat	AA098111
80884	gaaattgccagggttatggattatc	AA098111
80885	aaattgccagggttatggattatct	AA098111
80886	ttatcttgaaccgtaacaggatcca	AA098111
80887	tatcttgaaccgtaacaggatccag	AA098111
80888	tcttgaaccgtaacaggatccagga	AA098111
123425	tatttcaatctctccaagaagtatt	W34969
123426	ttcaatctctccaagaagtattttg	W34969
123427	aatctctccaagaagtattttgata	W34969
123428	tttcaaaattcctcacaagccagag	W34969
123429	tcctcacaagccagagggctcataa	W34969
123430	tcacaagccagagggctcataaacc	W34969
123431	gggctcataaaccactgcattgtca	W34969
123432	ctcataaaccactgcattgtcaaag	W34969
123433	aaccactgcattgtcaaagagactg	W34969
123434	atcccaagcttttgatgagattaa	W34969
123435	ccagccctcttcaagaaggtcaaag	W34969
123436	gccctcttcaagaaggtcaaagaga	W34969
123437	ctgggcctcagccagggtagctttg	W34969
123438	ctcagccagggtagctttgccttca	W34969
123439	agctttgccttcatccacaaggact	W34969
123440	gccttcatccacaaggactttgata	W34969
123441	atccacaaggactttgatatcaaag	W34969
123442	gagacctatttcaatctctccaaga	W34969
123443	tattctacagctcaagactgcagtg	J05287
123444	tctacagctcaagactgcagtgcag	J05287
123445	caaagttgtcttacctgtcagtgta	J05287
123446	cttacctgtcagtgtatgaagcact	J05287
123447	tttgctccttaagacagacaccttg	J05287
123448	gctccttaagacagacaccttggaa	J05287
123449	gacagacaccttggaactttcattc	J05287
123450	ttagtccccgaagtttgagatgagt	J05287
123451	gtccccgaagtttgagatgagtctt	J05287
123452	ctctgatctgcttaaaatgcagatt	J05287
123453	aacacacatatgcaatgttttaagg	J05287
123454	tgggatcctaacctaagatgcctta	J05287
123455	caagactgcagtgcagatgaagaca	J05287
123456	gtacttattctagtgttgctggctt	J05287
123457	attggtctcaagcgccatcatactg	J05287
123458	ggtctcaagcgccatcatactggat	J05287
123459	ctcaagcgccatcatactggatatg	J05287
123460	cgccatcatactggatatgagcaat	J05287
123461	ttttagtaactgcaatctgattgat	J05287
123462	tagtaactgcaatctgattgatcat	J05287
123463	gaatggaccgcaccagctcctgagt	J02870
123464	accgcaccagctcctgagttcactg	J02870
123465	ggagccaccactgagtggtcctgat	J02870
123466	gccaccactgagtggtcctgatctg	J02870
123467	tgatctgctgtgcaggtgcctgagc	J02870
123468	agctgtcttatggtcctcactgcag	J02870
123469	atggtcctcactgcagactgtacct	J02870
123470	gtcctcactgcagactgtacctgga	J02870
123471	ctcactgcagactgtacctggattg	J02870
123472	gcagactgtacctggattggcattt	J02870
123473	gactgtacctggattggcatttggc	J02870
123474	tgtacctggattggcatttggctat	J02870
123475	gctcagcctgaggtggccgactggt	J02870
123476	cagcctgaggtggccgactggtctg	J02870
123477	cagttccccacggaagactggagtg	J02870
123478	ttccccacggaagactggagtgcac	J02870
123479	gcacagccagccactgaggattggt	J02870
123480	cagccagccactgaggattggtcag	J02870
123481	acagcgcaggccactgagtgggttg	J02870
123482	gccactgagtgggttggagccacca	J02870
123483	gctctgctaccatgatctccagccg	W35044
123484	ctaccatgatctccagccgctcgga	W35044
123485	tgttccggcatctggctgcagcgac	W35044
123486	tggctgcagcgactttgttcttttc	W35044
123487	tctttctcagtgtcaccgccaggaa	W35044
123488	ttctcagtgtcaccgccaggaagtg	W35044
123489	tcaccgccaggaagtgcaagggcgc	W35044
123490	gcgcagtcatcgcggcaatgttgcg	W35044
123491	tcatcgcggcaatgttgcggatgtc	W35044
123492	caatgttgcggatgtcagcgtattt	W35044

TABLE 1

SEQ ID NO	sequence	DBAxnID
38285	atgtcctacccttgtgtgtttatgt	AA009148
38286	atcatgagcattcgacaagacatga	AA009148
38287	tgtgatctatggcaccaggaatctc	AA009148
38288	ctatggcaccaggaatctctttgct	AA009148
38289	tggcaccaggaatctctttgctggt	AA009148
38290	gaatctctttgctggttcaacgtat	AA009148
38291	tctctttgctggttcaacgtatgac	AA009148
38292	tacctccgtctgatcattttcataa	AA009148
38293	ctctttgctggttcaacgtatgaca	AA009148
38294	cgtctgatcattttcataagcaaca	AA009148
38295	ttcataagcaacagacttacatact	AA009148
38296	ataagcaacagacttacatactccc	AA009148
38297	agcaacagacttacatactccctta	AA009148
38298	agacttacatactcccttactgtat	AA009148
38299	cttacatactcccttactgtatatg	AA009148
38300	aacatgtacatgcagcgattcattg	AA009148
38301	gctcgtacaggtcatcaagaagacc	X57638
38302	caagaagaccgagtccgacgcagcg	X57638
38303	atcctttctgaatgggcacttctaa	X57638
38304	caacggcagtccccagtctggtctt	X57638
38305	ccggcccaatgttaatcaatgcaca	X57638
38306	tgttaatcaatgcacagcactctac	X57638
38307	atgcacagcactctacgttgcgttt	X57638
38308	cacagcactctacgttgcgtttata	X57638
38309	taacctcgaagtctgagcggtctgt	X57638
38310	cctcgaagtctgagcggtctgttcc	X57638
38311	aaatccctgaaaactaatctgcact	X57638
38312	tggcccaaggttagccatttaaatg	X57638
38313	agcgctgcacccactgttgcaagag	X57638
38314	gcacccactgttgcaagagatctac	X57638
38315	catgtactgatctttcctgagatgg	X57638
38316	gtactgatctttcctgagatggcag	X57638
38317	ctgatctttcctgagatggcaggcc	X57638
38318	gcaggccattaccactgttcaggga	X57638
38319	cattaccactgttcagggacctccg	X57638
38320	cactgttcagggacctccgaggcct	X57638
38321	ctcacattcaaacgacagttccagg	AA009177
38322	acagttccaggttcgagaaccacag	AA009177
38323	agtcgcacatggatgtggagaacac	AA009177
38324	gatatgtgcaggctcgaatgggctg	AA009177
38325	taagagttccgtacattccagattg	AA009177
38326	aagagttccgtacattccagattgg	AA009177
38327	gagttccgtacattccagattggtc	AA009177
38328	gttccgtacattccagattggtcct	AA009177
38329	ttccgtacattccagattggtcctg	AA009177
38330	ccgtacattccagattggtcctgat	AA009177
38331	cgtacattccagattggtcctgatg	AA009177
38332	gtacattccagattggtcctgatgc	AA009177
38333	cagttccaggttcgagaaccacaga	AA009177
38334	tacattccagattggtcctgatgct	AA009177
38335	gttccaggttcgagaaccacagagt	AA009177
38336	ttccaggttcgagaaccacagagtc	AA009177
38337	tccaggttcgagaaccacagagtcg	AA009177
38338	gttcgagaaccacagagtcgcacat	AA009177
38339	ttcgagaaccacagagtcgcacatg	AA009177
38340	agagtcgcacatggatgtggagaac	AA009177
38341	gagtcgcacatggatgtggagaaca	AA009177
38342	acagcaccatgcctggaacagtaac	L14677
38343	cagtaacgtcatcctgttcccctgg	L14677
38344	agtcgtgccttccacatagggacag	L14677
38345	gccttccacatagggacagacactt	L14677
38346	ggagcaatggccactgctgaagagc	L14677
38347	caaacccatagtcttgccttctcct	L14677
38348	ttctcctggatccagagctttcgga	L14677
38349	tggatccagagctttcggagaacat	L14677
38350	taactgtgaccaaaggccgcactct	L14677
38351	tgaccaaaggccgcactcttgcctt	L14677
38352	aaggccgcactcttgccttgggctc	L14677
80889	tgaaccgtaacaggatccaggagtt	AA098111
80890	tatgttcgccttcctgggggcttgg	AA098111
80891	gaagccaccatttggctcaagcttg	AA098111
80892	aagccaccatttggctcaagcttga	AA098111
80893	agccaccatttggctcaagcttgag	AA098111
80894	ccaccatttggctcaagcttgagga	AA098111
80895	caccatttggctcaagcttgaggaa	AA098111
80896	accatttggctcaagcttgaggaat	AA098111
80897	catttggctcaagcttgaggaatgt	AA098111
80898	atttggctcaagcttgaggaatgtg	AA098111
80899	atagctaccttgtgtctggtgtgct	U60453
80900	accttgtgtctggtgtgctgagaat	U60453
80901	gcttgtgcacatacctccttcactac	U60453
80902	actccttcactacactgtcaggtcc	U60453
80903	tcactacactgtcaggtccgtgtgt	U60453
80904	cacacccagttctgaaactgacatc	U60453
80905	cagggataccctccagcctaacgat	U60453
80906	ccagcctaacgataggctctgaatt	U60453
80907	ctgaattactcagtctctgggaaac	U60453
80908	ttctagactgagctcagccttccct	U60453
80909	cttccctcagcaggcatcactggca	U60453
80910	tcagcaggcatcactggcagcccct	U60453
80911	gatacagactgccctagagtgttag	U60453
80912	gactgccctagagtgttagaatggg	U60453
80913	agctccttgcttcctgaagaaccag	U60453
80914	ttgcttcctgaagaaccagagctcc	U60453
80915	gaaccagagctcctgtggcccttgc	U60453
80916	gagctcctgtggcccttgctaacca	U60453
80917	gcctcttagagatttgcatgggacg	U60453
80918	tttgcatgggacgtgcatgcttgtg	U60453
80919	tttcttgttcggtacctagcattgg	AA098307
80920	ttcttgttcggtacctagcattgga	AA098307
80921	ggcatcgactccaccggtatcgtac	AA098307
80922	gcatcgactccaccggtatcgtaca	AA098307
80923	catcgactccaccggtatcgtacac	AA098307
80924	atcgactccaccggtatcgtacacg	AA098307
80925	gactccaccggtatcgtacacggtg	AA098307
80926	caccggtatcgtacacggtgacagc	AA098307
80927	accggtatcgtacacggtgacagcg	AA098307
80928	ggtatcgtacacggtgacagcgacg	AA098307
80929	gtatcgtacacggtgacagcgacgt	AA098307
80930	gtacacggtgacagcgacgtgcagc	AA098307
80931	tcttgttcggtacctagcattggaa	AA098307
80932	tgttcggtacctagcattggaacca	AA098307
80933	gttcggtacctagcattggaaccat	AA098307
80934	ttcggtacctagcattggaaccatc	AA098307
80935	tcggtacctagcattggaaccatca	AA098307
80936	gtacctagcattggaaccatcagag	AA098307
80937	acctagcattggaaccatcagagac	AA098307
80938	atggcatcgactccaccggtatcgt	AA098307
80939	tcttctcagagttcaggaaaaacag	U64033
80940	ggctgccttagtattctgttcctca	U64033
80941	aatacagagtccagccattaccatt	U64033
80942	gagtccagccattaccattctcctg	U64033
80943	agccattaccattctcctgcgttac	U64033
80944	taccattctcctgcgttactttgac	U64033
80945	tctcctgcgttactttgacatggga	U64033
80946	gattggatcatctctacttctgtat	U64033
80947	atttattactagacctcaaccacag	U64033
80948	tactagacctcaaccacagccttct	U64033
80949	tccactctctgcctgtaggatgtac	U64033
80950	aatctacagatctgttttgtacttt	U64033
80951	cttagtattctgttcctcatgatta	U64033
80952	ttgtggcatcctatagttttacatt	U64033
80953	catcctatagttttacattgtgtat	U64033
80954	taccacgtgcacagacagcccaatg	U64033
80955	gtgcacagacagcccaatgagtggg	U64033
80956	agacagcccaatgagtgggccattt	U64033
123493	atttcagctcctctgtggtcagagc	W35044
123494	tcagctcctctgtggtcagagcaga	W35044
123495	gctcggactccctctgcaggaactc	W35044
123496	actccctctgcaggaactctgtgcg	W35044
123497	tctgcaggaactctgtgcgatcctg	W35044
123498	ctgtgcgatcctgctgcttgttccg	W35044
123499	tgcgatcctgctgcttgttccggca	W35044
123500	gatcctgctgcttgttccggcatct	W35044
123501	gctgcttgttccggcatctggctgc	W35044
123502	gcttgttccggcatctggctgcagc	W35044
123503	gctgcttttttgtcttcagaagcttt	L00993
123504	taggccacttcgatgtcacctgtat	L00993
123505	tagctcttgcgagtataagcccttc	L00993
123506	gagtataagcccttcttcccacagc	L00993
123507	gtataagcccttcttcccacagcta	L00993
123508	tcccacagctaatttgtctaatctc	L00993
123509	agctaatttgtctaatctctcatgc	L00993
123510	tttgtctaatctctcatgctgactt	L00993
123511	tgtctaatctctcatgctgacttta	L00993
123512	tctaatctctcatgctgactttata	L00993
123513	tgtacacagactacaattggaaaac	L00993
123514	tacacagactacaattggaaaactt	L00993
123515	acttcgatgtcacctgtataaagga	L00993
123516	ttcgatgtcacctgtataaaggaaa	L00993
123517	cgatgtcacctgtataaaggaaaat	L00993
123518	acttcttttgttgtatcaatcaagt	L00993
123519	ggaagattcttcctcttaattgtct	L00993
123520	tcctcttaattgtctttgaatatga	L00993
123521	atattagctcttgcgagtataagcc	L00993
123522	attagctcttgcgagtataagccct	L00993
123523	tatgttccatatactgtcatttcat	M14343
123524	ccatatactgtcatttcatcactat	M14343
123525	ctagttaatgctcttggtcatatcg	M14343
123526	aatgctcttggtcatatcgatatat	M14343
123527	tggaattcaccatttatgggaaatg	M14343
123528	ttgactatggccatttcctatgctt	M14343
123529	atggccatttcctatgcttaagacc	M14343
123530	atttcctatgcttaagaccatcttt	M14343
123531	tatgcttaagaccatctttgacttg	M14343
123532	taagaccatctttgacttgcattac	M14343
123533	tgacttgcattactgtgtatttatc	M14343
123534	tttgtttactcttactgagatataa	M14343
123535	actgtcatttcatcactatctctta	M14343
123536	atttcatcactatctcttaatgcat	M14343
123537	tcactatctcttaatgcatatttaa	M14343
123538	gactatttttgtatccacatgggaa	M14343
123539	ttttgtatccacatgggaagtagaa	M14343
123540	acattgcaagtcagttgctgtctac	M14343
123541	caagtcagttgctgtctacacaata	M14343
123542	agttgctgtctacacaatagataaa	M14343
123543	tctcagtgggagcgcaccggaaagc	W35700
123544	tttaggctcatctcagaacaggtca	W35700
123545	gcattccatgcagaagggctcaaca	W35700
123546	ctcaacaatgacttcatcttccatg	W35700
123547	aatgacttcatcttccatggctcaa	W35700
123548	gacttcatcttccatggctcaattt	W35700
123549	ttcatcttccatggctcaatttacc	W35700
123550	atcttccatggctcaatttacccca	W35700
123551	catggctcaatttaccccaaactga	W35700
123552	aactgaagttctggggcaagagtgt	W35700
123553	actgaagttctggggcaagagtgta	W35700
123554	ctgaagttctggggcaagagtgtag	W35700
123555	aggctcatctcagaacaggtcagcc	W35700
123556	ctcatctcagaacaggtcagccatc	W35700
123557	atctcagaacaggtcagccatcatc	W35700
123558	tcagaacaggtcagccatcatcccc	W35700
123559	cccccaatcagtgcattccatgcag	W35700
123560	ccaatcagtgcattccatgcagaag	W35700

TABLE 1

SEQ ID NO	sequence	DBAxnID
38353	gcactcttgccttgggctcttcatc	L14677
38354	ggccttcgtctcctggttcaggact	L14677
38355	tgccttgggctcttcatcacccgct	L14677
38356	cgtctcctggttcaggactccatgc	L14677
38357	gccccacagcatctcaaaataactc	L14677
38358	ctcaaaataactccaaagcagcaat	L14677
38359	ataactccaaagcagcaatgaactc	L14677
38360	ttaactcctcgggatcatggtaccg	L14677
38361	gatcatggtaccgttggaatcatcc	L14677
38362	gttggaatcatcctacctacctcca	L14677
38363	atcctcagtgcagtcggctccttcc	L41933
38364	agtgcagtcggctccttccgcatgc	L41933
38365	atccacgttaacatgagcactgttc	L41933
38366	gttaacatgagcactgttcggattc	L41933
38367	cggattcttcgctctctggaccaag	L41933
38368	gacacgtactggcttgtgggcagac	L41933
38369	cttgtgggcagacttggcttcaaca	L41933
38370	attcccaaaccacctgatctgcagc	L41933
38371	cctgatctgcagccaggggccagca	L41933
38372	ctgcagccaggggccagcaaccatg	L41933
38373	agcctgcaggagattcccccagaga	L41933
38374	attcccccagagagacgcaagaagc	L41933
38375	atgcccgaggtaccggtgcgcatcc	L41933
38376	ccggtgcgcatccgcattggtttgc	L41933
38377	cgcattggtttgcactcaggcccgt	L41933
38378	ggtttgcactcaggcccgtgcgtgg	L41933
38379	accatgcctcggtactgcctgttcg	L41933
38380	acggtcaacactgcctcgagaatgg	L41933
38381	actggactgccttaccgcatccacg	L41933
38382	taccgcatccacgttaacatgagca	L41933
38383	ggaccagccgcccagagaatgccat	U05809
38384	gccgcccagagaatgccattattta	U05809
38385	cagtgtctgctgccgtagtgggtga	U05809
38386	ctgctgccgtagtgggtgaacctgg	U05809
38387	ctcgcctggctgtcagccaagtacc	U05809
38388	tggctgtcagccaagtaccacgaag	U05809
38389	aagtaccacgaagtggcaagccagc	U05809
38390	gtggcaagccagctgagctactgaa	U05809
38391	agccagctgagctactgaagatgtt	U05809
38392	ccattgtgcaagctgtgaaaggcct	U05809
38393	gaactacacattccagggaggttct	U05809
38394	cacattccagggaggttctggcaga	U05809
38395	tccaggtcggccaagccaaggtggt	U05809
38396	ctctgcatgaggccttggctgctgc	U05809
38397	atgaggccttggctgctgcagagag	U05809
38398	ccttggctgctgcagagagtctaaa	U05809
38399	ataagatcagcatccgggtgctgga	U05809
38400	acaggaaactcatcctagactctgc	U05809
38401	tcctagactctgcccgagcaaccaa	U05809
38402	accactactacgaaggtggcatagg	U05809
38403	ttatgcctttgtgaagcttaaggaa	U21549
38404	ctacatccccatcttttagcattct	U21549
38405	ccagcttccatgaccccttctggga	U21549
38406	gcttccatgaccccttctgggacta	U21549
38407	agattccctccagagcagagaggcc	U21549
38408	cagccctatgtttacagccactgac	U21549
38409	agccactgacatgtctaagaaactt	U21549
38410	tgtatgactttcatgtccctcctta	U21549
38411	accccctgggacagtgtcataggtca	U21549
38412	gtgtcataggtcatccccagaacct	U21549
38413	tcataggtcatccccagaacctgtg	U21549
38414	cccagaacctgtgggaagagtagag	U21549
38415	catccccatcttttagcattctaac	U21549
38416	catcttttagcattctaacttaagg	U21549
38417	gcccagggctcacttgtctgacctg	U21549
38418	tgacctggtgaggtgtagcattgtc	U21549
38419	gtgtagcattgtcctgggattgttt	U21549
38420	tagcattgtcctgggattgtttgcc	U21549

SEQ ID NO	sequence	DBAxnID
80957	tctccacaaccctggtgtaatacag	U64033
80958	caaccctggtgtaatacagagtcca	U64033
80959	cttccaagccttcattgacttcatg	AA098356
80960	tgacttcatgacccgagagactgcc	AA098356
80961	gatggcgccctacaagggatctggg	AA098356
80962	gccctacaagggatctggggctcca	AA098356
80963	ggctccatctggagctctggactac	AA098356
80964	tccatctggagctctggactacgtg	AA098356
80965	tctggactacgtggctttctctagt	AA098356
80966	ggactacgtggctttctctagtgcc	AA098356
80967	tttctctagtgccctctatggagag	AA098356
80968	tagtgccctctatggagagagtgac	AA098356
80969	cctctgacattctccgtggaaaagg	AA098356
80970	ctgacattctccgtggaaaaggaga	AA098356
80971	gacccgagagactgccgagacagac	AA098356
80972	ccgagagactgccgagacagacacg	AA098356
80973	tgccgagacagacacggctgaacaa	AA098356
80974	agtggtagcctccttcaaaatcctg	AA098356
80975	ctacattaccccagaggagctgcgg	AA098356
80976	taccccagaggagctgcggagagag	AA098356
80977	tgagtactgcatccgtcggatggcg	AA098356
80978	catccgtcggatggcgccctacaag	AA098356
80979	atcaaagctaccattgctggtggtg	U70494
80980	cacatccacaaatcgctgatcggga	U70494
80981	ctgcattcgagtcttaaccatattt	U70494
80982	tcgagtcttaaccatatttaagtgt	U70494
80983	ttactgtggcttcaaagaagctatt	U70494
80984	acagacattgtttccactctggtgg	U70494
80985	tccactctggtggataagctcaata	U70494
80986	gggtcttaccttagatctcactcag	U70494
80987	agatctcactcagcaacaagtacat	U70494
80988	gcaacaagtacattctctgcttact	U70494
80989	agtacattctctgcttactaattaa	U70494
80990	ttctctgcttactaattaaacagtg	U70494
80991	cacaaatcgctgatcgggaagaaag	U70494
80992	aattaaacagtgcatctgtagtcat	U70494
80993	tgcctggattccttattatctcagg	U70494
80994	gattccttattatctcaggactcta	U70494
80995	ttattatctcaggactctaaatatt	U70494
80996	cagctgtccagtgttggtgattcca	U70494
80997	tccagtgttggtgattccagtggac	U70494
80998	gattccagtggactgtatctctgtg	U70494
80999	ccaaccaaatttctgcattcgagtc	U70494
81000	cagcaggaaccacaacaaaacgcca	
81001	agcaggaaccacaacaaaacgccag	
81002	gcaggaaccacaacaaaacgccagc	
81003	aggaaccacaacaaaacgccagcag	
81004	ggaaccacaacaaaacgccagcagg	
81005	gaaccacaacaaaacgccagcaggg	
81006	accacaacaaaacgccagcagggcg	
81007	ccacaacaaaacgccagcagggcgg	
81008	cagcaggaaccacaacaaaacgcca	
81009	agcaggaaccacaacaaaacgccag	
81010	gcaggaaccacaacaaaacgccagc	
81011	aggaaccacaacaaaacgccagcag	
81012	ggaaccacaacaaaacgccagcagg	
81013	gaaccacaacaaaacgccagcaggg	
81014	accacaacaaaacgccagcagggcg	
81015	ccacaacaaaacgccagcagggcgg	
81016	cacaacaaaacgccagcagggcggg	
81017	agcagcagcggggcggctgaggcag	
81018	gttgtacacttggggatctacacac	U70538
81019	acacactcacagctgaaaatgtttt	U70538
81020	tttccttaaacatgaagttgataag	U70538
81021	cactccacttgatgcacatgagtct	U70538
81022	tccacttgatgcacatgagtcttcc	U70538
81023	acttgatgcacatgagtcttcccca	U70538
81024	tgatgcacatgagtcttccccaaat	U70538

SEQ ID NO	sequence	DBAxnID
123561	atcagtgcattccatgcagaagggc	W35700
123562	agtgcattccatgcagaagggctca	W35700
123563	aactatctctgtgatcccacatgca	D00725
123564	ctctgtgatcccacatgcacataag	D00725
123565	acctgttgccctgaatgtcattcca	D00725
123566	tgccctgaatgtcattccagcatct	D00725
123567	agcatctgagaaggcctggtgtcat	D00725
123568	tgccactcagtaccccatgcagggt	D00725
123569	tcagtaccccatgcagggtcccctg	D00725
123570	gaacctgcctacatctggcacagtt	D00725
123571	ccaaactcctgcagctgcatgggac	D00725
123572	tcctgcagctgcatgggactgaggg	D00725
123573	agctgcatgggactgagggtcagac	D00725
123574	agcctctctctaagatcccagctga	D00725
123575	acatgcacataagactttggactct	D00725
123576	gactttggactctcagtgtcaggct	D00725
123577	ggactctcagtgtcaggctctcggt	D00725
123578	tgcatatttctgaacctggaatctg	D00725
123579	gggtgactcctctttatgtgtctgt	D00725
123580	ccgaccttgagcacatctgcttgca	D00725
123581	gcttgcacagtcttgatgggaccat	D00725
123582	acagtcttgatgggaccatgctggc	D00725
123583	ccgtggcttgttcaccacggttgtg	D31956
123584	atcatcccaagaagcatacagatcc	D31956
123585	agacatgtcctacagcaaccgcaag	D31956
123586	gtcctacagcaaccgcaagacgcca	D31956
123587	cccccgtgccttgtttcagcagagc	D31956
123588	tgccttgtttcagcagagcttacag	D31956
123589	gtttcagcagagcttacagcagtcc	D31956
123590	cagcactcttcctgtggtactcaaa	D31956
123591	tctgcaatctgtcaccaaccctagc	D31956
123592	ccctagccaggtaccctgacatcag	D31956
123593	ccaggtaccctgacatcagaaacaa	D31956
123594	accctgacatcagaaacaaagcttg	D31956
123595	cagatcccaggaacctctgcagaca	D31956
123596	ccaggaacctctgcagacatcattt	D31956
123597	acctctgcagacatcattttccttc	D31956
123598	gcagacatcattttccttcccagct	D31956
123599	atcattttccttcccagctgccatt	D31956
123600	cccagctgccattgctgtaggcttc	D31956
123601	cttcttcaccgggctgctccttggg	D31956
123602	ggaatctccgtgcgtagtgtatgaa	D31956
123603	cccatcctgtccaacataaagctga	J05154
123604	gagcagcgcataaccacgacttccc	J05154
123605	ctgcccatgaacgagacagatcacc	J05154
123606	gagacagatcacctcaacatggtct	J05154
123607	gatcacctcaacatggtcttcagca	J05154
123608	ctcaacatggtcttcagcaataaga	J05154
123609	gagcatatcaatgccatcctactgg	J05154
123610	atcaatgccatcctactgggtgcct	J05154
123611	gccatcctactgggtgcctaccgca	J05154
123612	ggtgcctaccgcactcctaagtcgc	J05154
123613	taccgcactcctaagtcgccagctg	J05154
123614	aagtcgccagctgccagcccaagtc	J05154
123615	cctcacgtgtggcctgaagaccatg	J05154
123616	cgtttttcacagatctgcattttg	J05154
123617	ttcacagatctgcattttgaagaag	J05154
123618	ggctggcacatgtttcttcagtctc	J05154
123619	cacatgtttcttcagtctcgtgacc	J05154
123620	atctatgaccacaacttcccctaca	J05154
123621	gctgcactctatgaagatggggacg	J05154
123622	tcgcagcccgtacatttgctgccca	J05154
123623	tacgagctgccgtgggttgaaaaat	AA120142
123624	tacagaccattgaagctcaacgaaa	AA120142
123625	ggcaagacaaccagcatcctctgct	AA120142
123626	aagacaaccagcatcctctgcttgg	AA120142
123627	accagcatcctctgcttggctcgag	AA120142
123628	agcatcctctgcttggctcgagcct	AA120142

TABLE 1

SEQ ID NO	sequence	DBAxnID
38421	cattgtcctgggattgtttgcccag	U21549
38422	attgtttgcccagcttccatgaccc	U21549
38423	gctggagccccctggatatgtttct	U25739
38424	ttcgttctttgctggcagaacccat	U25739
38425	gatcctctaaaacaggagagagagc	U25739
38426	tgttgcctaactctggggaatcgta	U25739
38427	aatcgtactccacagctagcagaga	U25739
38428	cccagtaatcatcaagaccaccatt	U25739
38429	aatcatcaagaccaccatttttgtc	U25739
38430	ttagcagtaactgccaccttgctgg	U25739
38431	gatgtggcccacttgcaaaatgggc	U25739
38432	ttcctcctcttaagacttgagcaga	U25739
38433	ctcttaagacttgagcagaggccat	U25739
38434	agacttgagcagaggccatggttta	U25739
38435	ttctcctagaaaacactatatctgg	U25739
38436	acactatatctggtacacgggctga	U25739
38437	tatctggtacacgggctgagagagg	U25739
38438	caacttctttcactgcccaagaaat	U25739
38439	ctttcactgcccaagaaattcaaat	U25739
38440	tgcttcagcaatccaggaggaaagc	U25739
38441	actgcctctgtccaatgcctgaaga	U25739
38442	caatgcctgaagactctggggatga	U25739
38443	gaattcctggaggcaatgctgtgca	AA011789
38444	attcctggaggcaatgctgtgcact	AA011789
38445	tgaaccctgaatccaacacctcggg	AA011789
38446	ccctgaatccaacacctcgggactg	AA011789
38447	ctgaatccaacacctcgggactgga	AA011789
38448	gaatccaacacctcgggactggaca	AA011789
38449	atccaacacctcgggactggacata	AA011789
38450	ccaacacctcgggactggacatatt	AA011789
38451	aacacctcgggactggacatatttg	AA011789
38452	cacctcgggactggacatatttgca	AA011789
38453	aaagttatctgcatacatcatgaaa	AA011789
38454	agttatctgcatacatcatgaaatc	AA011789
38455	gcaatgctgtgcactcacaggtacc	AA011789
38456	atctgcatacatcatgaaatcaaac	AA011789
38457	aatgctgtgcactcacaggtaccca	AA011789
38458	tgctgtgcactcacaggtacccaaa	AA011789
38459	gtgcactcacaggtacccaaagctg	AA011789
38460	tcacaggtacccaaagctggctgca	AA011789
38461	aggtacccaaagctggctgcactga	AA011789
38462	gtacccaaagctggctgcactgaac	AA011789
38463	actgaaccctgaatccaacacctcg	AA011789
38464	cggccacagcgatgaccggcagaga	AA011800
38465	ggccacagcgatgaccggcagagat	AA011800
38466	tggctgcaaccaactctataattct	AA011800
38467	ggctgcaaccaactctataattcta	AA011800
38468	ctgcaaccaactctataattctatt	AA011800
38469	tgcaaccaactctataattctattc	AA011800
38470	caaccaactctataattctattcct	AA011800
38471	ccaactctataattctattcctcaa	AA011800
38472	caactctataattctattcctcaac	AA011800
38473	actctataattctattcctcaacaa	AA011800
38474	taattctattcctcaacaagcaaag	AA011800
38475	aattctattcctcaacaagcaaagc	AA011800
38476	ccacagcgatgaccggcagagatgg	AA011800
38477	cagcgatgaccggcagagatggatc	AA011800
38478	agcgatgaccggcagagatggatcc	AA011800
38479	gacaacacaagactaaacgcctgca	AA011800
38480	caacacaagactaaacgcctgcagg	AA011800
38481	aacacaagactaaacgcctgcagga	AA011800
38482	acaacaaatggctgcaaccaactct	AA011800
38483	aatggctgcaaccaactctataatt	AA011800
38484	atgctgtcttaactacgatgctcaa	D45913
38485	tcttaactacgatgctcaatgatta	D45913
38486	tggtctacagactttaactcaagct	D45913
38487	acagactttaactcaagctaagact	D45913
38488	taagactaaacttgctactttgttg	D45913

SEQ ID NO.	sequence	DBAxnID
81025	tgcacatgagtcttccccaaatagc	U70538
81026	acatgagtcttccccaaatagcttt	U70538
81027	ttccccaaatagcttttctgaagtg	U70538
81028	cccaaatagcttttctgaagtgact	U70538
81029	tatactgtgtgttttctcagagtac	U70538
81030	cactcacagctgaaaatgttttccc	U70538
81031	gaacttttatcgatctagaattca	U70538
81032	ctttttatcgatctagaattcattg	U70538
81033	gtctcttgttgacttgtctgtcaaa	U70538
81034	tcttgttgacttgtctgtcaaatat	U70538
81035	tgttgacttgtctgtcaaatatttc	U70538
81036	gtctgtcaaatatttccttaaacat	U70538
81037	atatttccttaaacatgaagttgat	U70538
81038	cccgacggcttcttgttggtgctgg	AA098418
81039	cgagccggcacaggacctcttcgac	AA098418
81040	atgccacaattgtggggtcgtgcac	AA098418
81041	gccacaattgtggggtcgtgcaccg	AA098418
81042	cacaattgtggggtcgtgcaccgcg	AA098418
81043	acgagaacctgctggtggacctgcg	AA098418
81044	gaacctgctggtggacctgcgctcg	AA098418
81045	acctgctggtggacctgcgctcggg	AA098418
81046	ctgcgctcgggagactgaagctcat	AA098418
81047	gactgaagctcatcgacttcggctc	AA098418
81048	ctgaagctcatcgacttcggctcgg	AA098418
81049	gaagctcatcgacttcggctcgggc	AA098418
81050	agccggcacaggacctcttcgactt	AA098418
81051	ggcacaggacctcttcgacttcatc	AA098418
81052	cacaggacctcttcgacttcatcac	AA098418
81053	tcatcactgaacgaggcgccctgga	AA098418
81054	cactgaacgaggcgccctggacgag	AA098418
81055	tgccgctgtcgcatgccacaattgt	AA098418
81056	ccgctgtcgcatgccacaattgtgg	AA098418
81057	tgtcgcatgccacaattgtggggtc	AA098418
81058	atcccgctgggtctgagctcccagt	AA098426
81059	ggttcgcatgcctggaaggactcta	AA098426
81060	gtccctgggactcactgcccagctt	AA098426
81061	cactgcccagcttcacttcattcag	AA098426
81062	ccagcttcacttcattcagcaccat	AA098426
81063	tcacttcattcagcaccatggaaga	AA098426
81064	cattcagcaccatggaagatgatgg	AA098426
81065	gttacaactactatggggctgacaa	AA098426
81066	ctgacaaccagtctgaatgcgacta	AA098426
81067	ctgaatgcgactacgcagactggaa	AA098426
81068	gcgactacgcagactggaagccctc	AA098426
81069	acgcagactggaagccctctggagc	AA098426
81070	aagcaccctcagacctcttactctg	AA098426
81071	actggaagccctctggagcgctcat	AA098426
81072	cctcagacctcttactctgaggttc	AA098426
81073	acctcttactctgaggttcaagcca	AA098426
81074	tactctgaggttcaagccaatcctt	AA098426
81075	gaggttcaagccaatccttcagggt	AA098426
81076	tgcttgctgagttggtgacccatct	AA098426
81077	tggtgacccatctgtggaactggtg	AA098426
81078	cccatctgtggaactggtgtccctg	AA098426
81079	ctatgactcatggtccaaagaaaca	AA098430
81080	tatgactcatggtccaaagaaacac	AA098430
81081	aatgcatgccatcatcatcatttac	AA098430
81082	tgcatgccatcatcatcatttacct	AA098430
81083	gcatgccatcatcatcatttaccta	AA098430
81084	catgccatcatcatcatttacctag	AA098430
81085	tgccatcatcatcatttacctaggg	AA098430
81086	gccatcatcatcatttacctaggga	AA098430
81087	ccatcatcatcatttacctagggaa	AA098430
81088	atcatcatcatttacctagggaaca	AA098430
81089	tcatcatcatttacctagggaacag	AA098430
81090	catcatcatttacctagggaacaga	AA098430
81091	gaaacacctgaagcgtgtagcatgc	AA098430
81092	aacacctgaagcgtgtagcatgctc	AA098430

SEQ ID NO	sequence	DBAxnID
123629	tgcttggctcgagccttgctgggcc	AA120142
123630	cccgccgtgaaggacgcagtctgga	AA120142
123631	gtctggaactcaatgcctcaaatga	AA120142
123632	aactcaatgcctcaaatgacagggg	AA120142
123633	tcaatgcctcaaatgacaggggcat	AA120142
123634	atgcctcaaatgacaggggcatcga	AA120142
123635	actgtgagcaggctggaggtctttg	AA120142
123636	tcaaaatgttcgcccagcagaaagt	AA120142
123637	aatgtgcccaatatcatcattgctg	AA120142
123638	gtgcccaatatcatcattgctggtc	AA120142
123639	cccaatatcatcattgctggtcccc	AA120142
123640	atcatcattgctggtcccccaggaa	AA120142
123641	atcattgctggtcccccaggaactg	AA120142
123642	attgctggtcccccaggaactggca	AA120142
123643	actggcaagacaaccagcatcctct	AA120142
123644	ctgcataggcctagggctccattct	AA000102
123645	aggcctagggctccattctgccgta	AA000102
123646	ccagccatttgaacctggacagatg	AA000102
123647	atttgaacctggacagatgcagctg	AA000102
123648	aagtggtctatctcaactgtaaggc	AA000102
123649	tggtctatctcaactgtaaggccca	AA000102
123650	atcccctcttaaccatgaccagcgg	AA000102
123651	tcttaaccatgaccagcggaacatg	AA000102
123652	taaccatgaccagcggaacatggtg	AA000102
123653	ccatgaccagcggaacatggtgtgt	AA000102
123654	ccagcggaacatggtgtgtgtgacc	AA000102
123655	tgaagaatctgcccatcaaggtggg	AA000102
123656	agggctccattctgccgtatattga	AA000102
123657	gctccattctgccgtatattgaaga	AA000102
123658	tggcacacacacttgaacaaaagca	AA000102
123659	cacacacacttgaacaaaagcaagc	AA000102
123660	agcaagccctcagtgtttccagcca	AA000102
123661	aagccctcagtgtttccagccattt	AA000102
123662	gtgtttccagccatttgaacctgga	AA000102
123663	tttccagccatttgaacctggacag	AA000102
123664	tgatgccctgtctgactgactggag	W35783
123665	atgccctgtctgactgactggagtc	W35783
123666	attcagtagctggttgccctgtccc	W35783
123667	tcagtagctggttgccctgtccctg	W35783
123668	gttgccctgtccctgcatgaatgca	W35783
123669	ccctgtccctgcatgaatgcatctg	W35783
123670	ctgtccctgcatgaatgcatctgtt	W35783
123671	ccctgcatgaatgcatctgttcgtc	W35783
123672	atgaatgcatctgttcgtcttacat	W35783
123673	gaatgcatctgttcgtcttacatgc	W35783
123674	atgcatctgttcgtcttacatgctg	W35783
123675	atctgttcgtcttacatgctgatgc	W35783
123676	tgtctgactgactggagtcgaatat	W35783
123677	tctgttcgtcttacatgctgatgcc	W35783
123678	tctgactgactggagtcgaatatcg	W35783
123679	tatcgtttatgtgggctcagctgag	W35783
123680	tcgtttatgtgggctcagctgagag	W35783
123681	ttatgtgggctcagctgagagtgac	W35783
123682	atgtgggctcagctgagagtgacga	W35783
123683	gatcctagattcagtagctggttgc	W35783
123684	ctagattcagtagctggttgccctg	W35783
123685	ccagcactccagctttctttgccga	M69260
123686	ctttctttgccgagaagctgtacga	M69260
123687	catcccaactattctgcaaggttct	M69260
123688	aactattctgcaaggttctgaggag	M69260
123689	gaatgtctcttagctgttgttttcc	M69260
123690	gctgttgttttccttcgatggcatg	M69260
123691	cttcgatggcatgggcttaagtagg	M69260
123692	taagtctaattacctgctttgaata	M69260
123693	catcattactctgtacaatagagaa	M69260
123694	taaagccccataagcaagtcacttt	M69260
123695	agcaagtcactttggtaccattcct	M69260
123696	tcactttggtaccattcctgagaaa	M69260

TABLE 1

SEQ ID NO	sequence	DBAxnID
38489	taaacttgctactttgttgaatgat	D45913
38490	tgtatcaactgaactgaatgtttgc	D45913
38491	actgaatgtttgcctttcagcaaca	D45913
38492	tgtttgcctttcagcaacaactttc	D45913
38493	tgtttaactcaccaacttggtgtat	D45913
38494	actcaccaacttggtgtataatgaa	D45913
38495	caccaacttggtgtataatgaagac	D45913
38496	tgcttgacccctttcttctgaagcc	D45913
38497	acccctttcttctgaagccatcaat	D45913
38498	ttcttctgaagccatcaatacgaag	D45913
38499	accggcctctcaacagctaacatag	D45913
38500	ctctcaacagctaacatagggtttg	D45913
38501	agcattagatcctttgtagcaatct	D45913
38502	agatcctttgtagcaatctggtcta	D45913
38503	gcaatctggtctacagactttaact	D45913
38504	cagtggcagcctggtgtccatgcag	AA048974
38505	cctggtgtccatgcaggacgaggcc	AA048974
38506	gcaaagctagatcccgtgcttaagt	AA048974
38507	aagctagatcccgtgcttaagtgag	AA048974
38508	gatcccgtgcttaagtgagccaccg	AA048974
38509	gtgtgacatcccagcttccatctcc	AA048974
38510	ttccatctccagcactgagggtgag	AA048974
38511	catctccagcactgagggtgagaac	AA048974
38512	tgagaactgcgcgctttatcacttg	AA048974
38513	gaactgcgcgctttatcacttgtcc	AA048974
38514	ctgcgcgctttatcacttgtccacg	AA048974
38515	gccccatcatgtgtcaggcacagct	AA048974
38516	ggtgtccatgcaggacgaggccttc	AA048974
38517	tcatgtgtcaggcacagctctctat	AA048974
38518	gaacaacagttcctcactgtgaccc	AA048974
38519	caacagttcctcactgtgacccagg	AA048974
38520	ttcctcactgtgacccaggttggtg	AA048974
38521	acccaggttggtgctgtggctccat	AA048974
38522	gctgtggctccatgtgcaaagctag	AA048974
38523	gtggctccatgtgcaaagctagatc	AA048974
38524	gctccatgtgcaaagctagatcccg	AA048974
38525	tttttggctggagcaggttcatccc	U49720
38526	gcctgcagtgctcctgtggcccaga	U49720
38527	aagagtctgctacgacacaaaaggc	U49720
38528	ctgctacgacacaaaaggctgaacg	U49720
38529	tgggatccttctgtctctgctacgt	U49720
38530	tgccctatgctgccctggccatgta	U49720
38531	atgctgccctggccatgtacatggt	U49720
38532	ccctggccatgtacatggtcaacaa	U49720
38533	ccttcttttccaagagctcctgtgt	U49720
38534	acgaatctgacgtgtctggctctca	U49720
38535	ctgacgtgtctggctctcagaaaac	U49720
38536	ctgtctcttctagcaaagttggccc	U49720
38537	cctgtggcccagactggtacactgt	U49720
38538	gcccagactggtacactgtgggcac	U49720
38539	actggtacactgtgggcaccaagta	U49720
38540	gcgagtactacacctggttcctctt	U49720
38541	actacacctggttcctcttcatctt	U49720
38542	cctactcccagttgctgaggactct	U49720
38543	tcagagctgtggcagctcagcagca	U49720
38544	ctgtggcagctcagcagcaagagtc	U49720
38545	actgcgaccatggcgacccctggca	AA011731
38546	tcctccgtcctggcgagcaagacca	AA011731
38547	ctgagccacgttcaaatccctgtca	AA011731
38548	gttcaaatccctgtcatgttgatgc	AA011731
38549	atccctgtcatgttgatgcctgatg	AA011731
38550	cctgtcatgttgatgcctgatgact	AA011731
38551	gtcatgttgatgcctgatgacttca	AA011731
38552	ttgatgcctgatgacttcaaagcct	AA011731
38553	atgcctgatgacttcaaagcctact	AA011731
38554	cctgatgacttcaaagcctactcaa	AA011731
38555	gatgacttcaaagcctactcaagag	AA011731
38556	gacttcaaagcctactcaagagata	AA011731
81093	cacctgaagcgtgtagcatgctcca	AA098430
81094	gtgtagcatgctccaaaacattgga	AA098430
81095	gtagcatgctccaaaacattggatg	AA098430
81096	tagcatgctccaaaacattggatgc	AA098430
81097	ggaatgcatgccatcatcatcattt	AA098430
81098	gaatgcatgccatcatcatcattta	AA098430
81099	tgttaactagcacactgcgaaatgg	U70674
81100	ctagcacactgcgaaatggtcatac	U70674
81101	acgcaggctattgtgtcggtttgta	U70674
81102	tgttcccataagttttacagggatg	U70674
81103	accatgaacagagcatcccatgcca	U70674
81104	aacagagcatcccatgccagttgca	U70674
81105	gcatcccatgccagttgcagctact	U70674
81106	catgccagttgcagctacttgacca	U70674
81107	agttgcagctacttgaccatgggta	U70674
81108	agctacttgaccatgggtaacaaca	U70674
81109	atgagaccccatctcatttttactt	U70674
81110	cgttggccttacaatcaaatgtaag	U70674
81111	gtcataccgatgacccgtgcagtca	U70674
81112	acccgtgcagtcactaggtagtagt	U70674
81113	caaatctatgctctagagaatgtat	U70674
81114	atcttttacatatcattgcaatttc	U70674
81115	tacatatcattgcaatttccttatg	U70674
81116	tcattgcaatttccttatgttaatc	U70674
81117	cctttagcattacggtgacaatgac	U70674
81118	cataatcatatccagaaaaggggaa	U70674
81119	gctgatcctggggctcattcttgca	U70859
81120	gctcattcttgcaatttctggggtc	U70859
81121	ccttgatctcacaacttcctgtgtt	U70859
81122	ctgtgttcacagcatttgacctaac	U70859
81123	tcacagcatttgacctaaccatacc	U70859
81124	catttgacctaaccatacctaattg	U70859
81125	gttgtcttgttctcctatacaataa	U70859
81126	ttgttctcctatacaataatggaga	U70859
81127	agtactcttgaccccacgaagagct	U70859
81128	cttgaccccacgaagagctgggcct	U70859
81129	cccacgaagagctgggcctctcatg	U70859
81130	taatgctctgtatttcttgtgaaat	U70859
81131	tcttgcaatttctggggtcatctgg	U70859
81132	tcctctactcccactggtgagcatc	U70859
81133	actcccactggtgagcatctttgtg	U70859
81134	tggatttgctatctactttggctat	U70859
81135	tgctatctactttggctatgggatc	U70859
81136	tgggatccaacacagtatgaaagaa	U70859
81137	ccaaactatagaccttgatctcaca	U70859
81138	tatagaccttgatctcacaacttcc	U70859
81139	acatctgacctcatagtgttgggtc	AA098490
81140	ctgacctcatagtgttgggtctccc	AA098490
81141	agtaatgtcacaacgacatatgata	AA098490
81142	taatgtcacaacgacatatgataga	AA098490
81143	atgtcacaacgacatatgatagatg	AA098490
81144	gtcacaacgacatatgatagatggg	AA098490
81145	ttcccaactctaagcaaagcccaga	AA098490
81146	tctaagcaaagcccagacgagcctt	AA098490
81147	agcaaagcccagacgagcctttgag	AA098490
81148	caaagcccagacgagcctttgagaa	AA098490
81149	aagcccagacgagcctttgagaagc	AA098490
81150	ccagacgagcctttgagaagccaga	AA098490
81151	gacctcatagtgttgggtctccctg	AA098490
81152	cctcatagtgttgggtctccctgga	AA098490
81153	tcatagtgttgggtctccctggaaa	AA098490
81154	gtctccctggaaaacaactgagcag	AA098490
81155	ctccctggaaaacaactgagcagga	AA098490
81156	gactatttcagtacttttggagagg	AA098490
81157	ggctttgttcgatttacagaatatg	AA098490
81158	atatgaaacccaagtgaaagtaatg	AA098490
81159	ttgcatacaatcaccccaataggaa	D50032
81160	ttttgcttttattgcctgcagtaga	D50032
123697	gtgccggaactcgccataaggcatt	M69260
123698	gaactcgccataaggcattgatcag	M69260
123699	tggtctcccgttcggaaattgacat	M69260
123700	gaatctctctttgccaagccatcct	M69260
123701	ctctttgccaagccatcctggatga	M69260
123702	ccatcctggatgaaaccaaaggaga	M69260
123703	tggctctgtgtggtggaaactagac	M69260
123704	actagacatcccaactattctgcaa	M69260
123705	ccatgcgacgcgtctacataggacg	W45817
123706	cgcgtctacataggacgcctgagct	W45817
123707	gctacaacgtccgcgagaaggacat	W45817
123708	tacaacgtccgcgagaaggacatcc	W45817
123709	caacgtccgcgagaaggacatccag	W45817
123710	aggacatccagcgcttttcagcgg	W45817
123711	gacatccagcgctttttcagcggct	W45817
123712	catccagcgctttttcagcggctac	W45817
123713	tccagcgctttttcagcggctacgg	W45817
123714	tccgtcgagatcgacctcaaaaatg	W45817
123715	tcgagatcgacctcaaaaatgggta	W45817
123716	gagatcgacctcaaaaatgggtacg	W45817
123717	cgtctacataggacgcctgagctac	W45817
123718	tctacataggacgcctgagctacaa	W45817
123719	tacataggacgcctgagctacaacg	W45817
123720	taggacgcctgagctacaacgtccg	W45817
123721	ggacgcctgagctacaacgtccgcg	W45817
123722	acgcctgagctacaacgtccgcgag	W45817
123723	gcctgagctacaacgtccgcgagaa	W45817
123724	gagctacaacgtccgcgagaaggac	W45817
123725	agccaagcttttgacctccagctct	W35742
123726	ttttgacctccagctctctgttcaa	W35742
123727	ggcattgtctccgtcatactcagtg	W35742
123728	cattgtctccgtcatactcagtgtc	W35742
123729	gtctccgtcatactcagtgtcccct	W35742
123730	tactcagtgtcccctgcgactggat	W35742
123731	ctcagtgtcccctgcgactggattg	W35742
123732	cagtgtcccctgcgactggattgcc	W35742
123733	ccgctagcaatctctccacatagat	W35742
123734	gctagcaatctctccacatagattg	W35742
123735	tagcaatctctccacatagattgtc	W35742
123736	gcaatctctccacatagattgtcct	W35742
123737	ttgacctccagctctctgttcaaca	W35742
123738	caatctctccacatagattgtcctg	W35742
123739	cctccagctctctgttcaacagata	W35742
123740	tccagctctctgttcaacagatacg	W35742
123741	gctctctgttcaacagatacgctgt	W35742
123742	gtacaacgtcggctcaagcgctctg	W35742
123743	tcggctcaagcgctctgttcgatgt	W35742
123744	ctcaagcgctctgttcgatgtgtat	W35742
123745	tcggcattgtctccgtcatactcag	W35742
123746	attcggcactgaggaggcgcctgcg	AA030658
123747	cggtgcgcttgtggctggacaacac	AA030658
123748	aaatgctgatcatgcgtggagcacg	AA030658
123749	aatgctgatcatgcgtggagcacgg	AA030658
123750	atgctgatcatgcgtggagcacgga	AA030658
123751	tgctgatcatgcgtggagcacggat	AA030658
123752	ctgatcatgcgtggagcacggatta	AA030658
123753	tgatcatgcgtggagcacggattaa	AA030658
123754	gatcatgcgtggagcacggattaat	AA030658
123755	atcatgcgtggagcacggattaatg	AA030658
123756	tcatgcgtggagcacggattaatgt	AA030658
123757	ggtgcgcttgtggctggacaacaca	AA030658
123758	gtgcgcttgtggctggacaacacag	AA030658
123759	tgcgcttgtggctggacaacacaga	AA030658
123760	gcgcttgtggctggacaacacagag	AA030658
123761	aaggccgctctgcggtggttgaaat	AA030658
123762	aggccgctctgcggtggttgaaatg	AA030658
123763	ggccgctctgcggtggttgaaatgc	AA030658
123764	gaaatgctgatcatgcgtggagcac	AA030658

TABLE 1

SEQ ID NO	sequence	DBAxnID
38557	tccgtcctggcgagcaagaccaaga	AA011731
38558	ttcaaagcctactcaagagataaga	AA011731
38559	gtcctggcgagcaagaccaagacga	AA011731
38560	cacttcgtggctcagaaagtgaagc	AA011731
38561	ggggtcaaccattcgatcaatgaac	AA011731
38562	gtcaaccattcgatcaatgaactga	AA011731
38563	aaccattcgatcaatgaactgagcc	AA011731
38564	cattcgatcaatgaactgagccacg	AA011731
38565	aatgaactgagccacgttcaaatcc	AA011731
38566	aaactgctcaagaacagagatattt	U32332
38567	acattgccagtgacactacagagaa	U32332
38568	gacttggtgccgatttagagagaag	U32332
38569	agcttttgcagcatcaacgtgtatt	U32332
38570	tgcagcatcaacgtgtatttgtcgc	U32332
38571	ttgtcgcttatttcccctgcagcaa	U32332
38572	ccagtactgacctaatttggatcta	U32332
38573	gctgcaaaggctcctttgcctttct	U32332
38574	attgttcttacaagtttctgatcaa	U32332
38575	agtttctgatcaaaatcccgtgaat	U32332
38576	tgatcaaaatcccgtgaatctaaat	U32332
38577	tcaaaatcccgtgaatctaaattat	U32332
38578	actcctttgggaattgctatagaat	U32332
38579	tctttaatggacttcatcggctgaa	U32332
38580	atggacttcatcggctgaacctagg	U32332
38581	ttcatcggctgaacctaggatctgg	U32332
38582	gtgaatcccacaaaaatcagagcat	U32332
38583	cccacaaaaatcagagcatgctaca	U32332
38584	agaacagatgccctcatcaccaagg	U32332
38585	gatgccctcatcaccaaggacttgg	U32332
38586	cagttctcctcaagcagtgagctct	AA120290
38587	tcctcaagcagtgagctctacctgc	AA120290
38588	gtcaacgagcacgctcgcagactga	AA120290
38589	gagcacgctcgcagactgattgagc	AA120290
38590	cttttaagcaagatcacctttgaca	AA120290
38591	agcaagatcacctttgacaaatgta	AA120290
38592	ttcttcgtgtgtcaagtatgtggct	AA120290
38593	caagtatgtggctttcggagcagac	AA120290
38594	tgtggctttcggagcagacttcaca	AA120290
38595	tttcggagcagacttcacacaaatg	AA120290
38596	agcagacttcacacaaatgtcaaca	AA120290
38597	cttcacacaaatgtcaacagacacg	AA120290
38598	agcagtgagctctacctgcacttcc	AA120290
38599	tacctgcacttccaggagcatagcc	AA120290
38600	cacttccaggagcatagccgtgatg	AA120290
38601	gagcagtacctgtgccagttctgtg	AA120290
38602	tacctgtgccagttctgtgagcacg	AA120290
38603	tgccagttctgtgagcacgagacag	AA120290
38604	gacttgcacagccacgttgtcaacg	AA120290
38605	cacagccacgttgtcaacgagcacg	AA120290
38606	tcatctttgctgcttatagtttcac	AA013513
38607	tctttgctgcttatagtttcacaag	AA013513
38608	ctgttgttatcctcgttgtccacgt	AA013513
38609	ttgttatcctcgttgtccacgtctc	AA013513
38610	ttatcctcgttgtccacgtctccgt	AA013513
38611	cgtaatcggccattttgcttctcct	AA013513
38612	aatcggccattttgcttctcctgtt	AA013513
38613	ctttcttcttgtagaatatcagcaa	AA013513
38614	aattcatgggcatcttgttgcatgt	AA013513
38615	tcatgggcatcttgttgcatgtagt	AA013513
38616	gcatcttgttgcatgtagttgtcaa	AA013513
38617	tagttgtcaaacagctcgttttctt	AA013513
38618	ttgctgcttatagtttcacaagtaa	AA013513
38619	agacacctggtttcattagttaatg	AA013513
38620	ttagttaatgttccctgaaagatct	AA013513
38621	gttaatgttccctgaaagatctcgt	AA013513
38622	aatgttccctgaaagatctcgtgga	AA013513
38623	tgaaagatctcgtggacccaggttg	AA013513
38624	gttgggtctggtgtgctgttgttat	AA013513
81161	attccagtctgtatggttacgccta	D50032
81162	gctaatctcagggatgcagagagaa	D50032
81163	aaagtatgagtcctgtgctgttgtg	D50032
81164	tgagtcctgtgctgttgtggaaatc	D50032
81165	gagttcttttccagtgctgactgca	D50032
81166	ttttccagtgctgactgcagcatgg	D50032
81167	agtgctgactgcagcatgggcttga	D50032
81168	gactgcagcatgggcttgaaattga	D50032
81169	aagtatgtattcttggcaggtggca	D50032
81170	gtattcttggcaggtggcattctag	D50032
81171	ttttattgcctgcagtagatagata	D50032
81172	aaactaactgcattcttcacactcc	D50032
81173	actgcattcttcacactcctccttg	D50032
81174	ctccttgctgtttaagatgtgcagg	D50032
81175	aggaaaatctttcctatcgtgtcat	D50032
81176	atctttcctatcgtgtcatatctgg	D50032
81177	gtgtcatatctggtcatgaaactgt	D50032
81178	gtctagcgttttattccagtctgta	D50032
81179	ggagctagacccgatcacccaactg	AA098510
81180	agcccctcggagatgcttcacttgt	AA098510
81181	acatggtccaggtgatccgtcagat	AA098510
81182	atggtccaggtgatccgtcagatgc	AA098510
81183	tccaggtgatccgtcagatgcaccc	AA098510
81184	tgaacaaggcatctgtccgagacat	AA098510
81185	caaggcatctgtccgagacatcaag	AA098510
81186	aggcatctgtccgagacatcaagaa	AA098510
81187	gcatctgtccgagacatcaagaagc	AA098510
81188	atctgtccgagacatcaagaagccc	AA098510
81189	tctgtccgagacatcaagaagccct	AA098510
81190	ctgtccgagacatcaagaagccctg	AA098510
81191	agatgcttcacttgtccccagtgtc	AA098510
81192	atgcttcacttgtccccagtgtcga	AA098510
81193	ttccgcccaacctgcagttggccaa	AA098510
81194	cagttggccaacatggtccaggtga	AA098510
81195	gttggccaacatggtccaggtgatc	AA098510
81196	tggccaacatggtccaggtgatccg	AA098510
81197	gccaacatggtccaggtgatccgtc	AA098510
81198	caacatggtccaggtgatccgtcag	AA098510
81199	aggttactgaactgccgggctgatg	U25633
81200	ctgaactgccgggctgatgttagag	U25633
81201	tttctgtgacatttacgtctcatgt	U25633
81202	tgacatttacgtctcatgtaatttg	U25633
81203	catttacgtctcatgtaatttgcat	U25633
81204	ttacgtctcatgtaatttgcatcgc	U25633
81205	atgtaatttgcatcgcattggtggg	U25633
81206	taatttgcatcgcattggtgggtta	U25633
81207	gcatcgcattggtgggttattctag	U25633
81208	gtactgtatttggcttcttcattaa	U25633
81209	ctgtatttggcttcttcattaatag	U25633
81210	gcttcttcattaataggatatttca	U25633
81211	tgccgggctgatgttagagacactg	U25633
81212	gacactggccagaaaagctataata	U25633
81213	ttgatcactatacatttgttctatg	U25633
81214	actatacatttgttctatgctgcct	U25633
81215	atacatttgttctatgctgccttat	U25633
81216	ttctatgctgccttatgttcataag	U25633
81217	gctgccttatgttcataagaatatc	U25633
81218	tatcaacagacagctagagccagaa	U25633
81219	gttcggcaaaagccctcaagtgctg	AA098517
81220	cggcaaaagccctcaagtgctgaag	AA098517
81221	gaacaaattaccatcagtttacaga	AA098517
81222	caaattaccatcagtttacagaagt	AA098517
81223	attaccatcagtttacagaagttgg	AA098517
81224	ggaattcatgcaggcacttaccatg	AA098517
81225	attcatgcaggcacttaccatgcca	AA098517
81226	catgcaggcacttaccatgccaata	AA098517
81227	gcaggcacttaccatgccaatatgg	AA098517
81228	ggcacttaccatgccaatatggaac	AA098517
123765	ctcatgatgctgtgctggaaggagc	M12056
123766	atgctgtgctggaaggagcgcccag	M12056
123767	tgtgtcacacataatgcagtttctg	M12056
123768	acacataatgcagtttctgtctgta	M12056
123769	aatgcagtttctgtctgtacacaca	M12056
123770	gtctgtacacacatctgtagttatg	M12056
123771	tctacacatgtgtcttatacctgtg	M12056
123772	ccttggatacctcctaagatgtctc	M12056
123773	ttccatttcctgaagccatagagag	M12056
123774	atgcgtgtctctgtctaccactgcc	M12056
123775	cactgcctttcagagggtctccagg	M12056
123776	tctctgtgtgttctgtcctgtgccc	M12056
123777	cttcggagtgttctggatgacttct	M12056
123778	gtgttctgtcctgtgcccggaattc	M12056
123779	tgataggcctttcggtcccaagatc	M12056
123780	ttcctgtgccatatctgtgtggcct	M12056
123781	atctgtgtggcctgtgcacacatgg	M12056
123782	gtggcctgtgcacacatggactctg	M12056
123783	cacatggactctgactctgtacatg	M12056
123784	gactctgtacatgaaacctgtgcgt	M12056
123785	gtacatgaaacctgtgcgtgtgtca	M12056
123786	acgttgctggcgtaactctgaagtc	X04752
123787	taactctgaagtcactgaacccagc	X04752
123788	tcccttgtgtcttgggacaaagtgg	X04752
123789	gtatcacagactttgtgaaagtcaa	X04752
123790	aagtcaacatgaccgctgaggagga	X04752
123791	gtgcggacacactctggaatatgca	X04752
123792	acacactctggaatatgcagaagga	X04752
123793	gccaccttcgaccgtgtgacagatg	X04752
123794	tcacatcactgatcacggcagtccc	X04752
123795	cactgatcacggcagtcccactgaa	X04752
123796	aagtgtttccacatcataacaaagt	X04752
123797	ttccacatcataacaaagttcaata	X04752
123798	atacctcttgggctatcgggctgtc	X04752
123799	cttgggctatcgggctgtctgtgac	X04752
123800	ctatcgggctgtctgtgactgatct	X04752
123801	ctgtgactgatctggcgcgatccat	X04752
123802	ctgatctggcgcgatccatcttgaa	X04752
123803	tggcgcgatccatcttgaagaatct	X04752
123804	gatccatcttgaagaatcttaagag	X04752
123805	gagtgcatcctgttaccacgctggt	X04752
123806	tcctcatccaagtgacggggaccgt	M60778
123807	tctccgtctccttcaacagcagcaa	M60778
123808	ttccaaatggaagccctccagaaga	M60778
123809	atggaagccctccagaagacactga	M60778
123810	acactgaccctctggcagtacctgg	M60778
123811	tctgatacactgacagcccaggaat	M60778
123812	acagcccaggaatagacttgagagc	M60778
123813	ctctgaccagcttcagtcacatgcc	M60778
123814	acatgccaccgtgtatcctgtcctt	M60778
123815	caccgtgtatcctgtccttcactag	M60778
123816	gtatcctgtccttcactagtcattg	M60778
123817	tgtccttcactagtcattgctgttc	M60778
123818	gcagcaagcatttccatttgtatgg	M60778
123819	cactagtcattgctgttcctagtcc	M60778
123820	agcatttccatttgtatggcagcaa	M60778
123821	tccatttgtatggcagcaaagcctc	M60778
123822	aagcctctgaggcccaggtcctcgt	M60778
123823	ttgacctgatccacgagaaggagat	M60778
123824	acgtgtacgtgctcagcggcattgg	M60778
123825	acgtgctcagcggcattgggggcct	M60778
123826	tggcgctctacaaggttggcttctt	M60778
123827	gatgtcgtgttgactctggtaaccg	W35766
123828	atgtcgtgttgactctggtaaccgt	W35766
123829	cgacctccaaatcattgttcaacat	W35766
123830	aacatcggcattgtctcgggtatac	W35766
123831	atcggcattgtctcgggtatactcc	W35766
123832	gtctcgggtatactccatgtaaaat	W35766

TABLE 1

SEQ ID NO	sequence	DBAxnID
38625	gtgctgttgttatcctcgttgtcca	AA013513
38626	tgaatctgtgtagtctctgacccta	L40406
38627	atctgtgtagtctctgaccctaagt	L40406
38628	ttgcattttgctcttcatttccgca	L40406
38629	tttgctcttcatttccgcatgtgtg	L40406
38630	gctcttcatttccgcatgtgtgtgg	L40406
38631	aagtctgtccagtagagtgattttg	L40406
38632	gctttcattattaccaagtcaaggt	L40406
38633	catgcgaagcagggctgtgaactat	L40406
38634	tgtgaactatcaccacacagtgcat	L40406
38635	ctatcaccacacagtgcattgtccc	L40406
38636	tcaccacacagtgcattgtcccgtg	L40406
38637	agtgcattgtcccgtggaggtgtga	L40406
38638	ctttggtgtcagggtcctgtggagt	L40406
38639	aagtccaccctgtggtgtcatttct	L40406
38640	ctgagctctgtacagtattgctgct	L40406
38641	gtacagtattgctgctcatacactg	L40406
38642	tattgctgctcatacactgaggagg	L40406
38643	atgaactacactgcttggtcacacg	L40406
38644	aactacactgcttggtcacacgctg	L40406
38645	actgcttggtcacacgctgggatca	L40406
38646	atcttaagcagttattcttgccaag	L40406
38647	tattcctggacggttaccctgcaca	AA013526
38648	tgagtggtcgcattggttcatgtcc	AA013526
38649	tatactttctctcgcggttcgccgc	AA013526
38650	gccgcgatcgtcgattgttccgcgt	AA013526
38651	cgatcgtcgattgttccgcgtcgtt	AA013526
38652	atcgtcgattgttccgcgtcgttgt	AA013526
38653	cgtcgttgtaccctggtggcatcag	AA013526
38654	tcgttgtaccctggtggcatcagcc	AA013526
38655	gttgtaccctggtggcatcagcctt	AA013526
38656	tgtaccctggtggcatcagccttta	AA013526
38657	taccctggtggcatcagcctttagt	AA013526
38658	ccctggtggcatcagcctttagtcg	AA013526
38659	tggtcgcattggttcatgtccgctg	AA013526
38660	gtcgcattggttcatgtccgctgtg	AA013526
38661	ttggttcatgtccgctgtgtggcct	AA013526
38662	ttcatgtccgctgtgtggcctgtat	AA013526
38663	tgtccgctgtgtggcctgtatactt	AA013526
38664	ctgtgtggcctgtatactttctctc	AA013526
38665	ggcctgtatactttctctcgcggtt	AA013526
38666	cctgtatactttctctcgcggttcg	AA013526
38667	ttcggcactaggggcacagtcttca	AA013528
38668	ggcacagtcttcatggcggaagatc	AA013528
38669	tagaagacaatcaccatggaggcat	AA013528
38670	aagacaatcaccatggaggcatagc	AA013528
38671	atcaccatggaggcatagccagacc	AA013528
38672	agatgttccagacattgatgctgcc	AA013528
38673	tgttccagacattgatgctgccggc	AA013528
38674	catgatgctgccggccttcatgaa	AA013528
38675	tgatgctgccggccttcatgaactg	AA013528
38676	tgccggccttcatgaactggcccaa	AA013528
38677	ccttcatgaactggcccaatgagat	AA013528
38678	tgaactggcccaatgagatttccag	AA013528
38679	acagtcttcatggcggaagatctcc	AA013528
38680	ggattcctccaaccagggcaatcag	AA013528
38681	gcggaagatctccacacagtcagga	AA013528
38682	ctccacacagtcaggagtgttccag	AA013528
38683	ccaggtgtggccacatgtagcccat	AA013528
38684	acatgtagcccatgcaaagtggtag	AA013528
38685	tgtagcccatgcaaagtggtagtaa	AA013528
38686	taatagaagccccaggccagcacca	AA013528
38687	ccccaggccagcaccatgatgtagt	AA013528
38688	tctatggccatctcctaccatgagg	U27340
38689	gccatctcctaccatgagggagcta	U27340
38690	ccgtctgccttgttggggttctgtg	U27340
38691	ttgcctgtgccgtgtgacggtcacg	U27340
38692	tgtgacggtcacgtgggcctggtct	U27340
81229	acttaccatgccaatatggaaccag	AA098517
81230	catgccaatatggaaccagaagata	AA098517
81231	aagccctcaagtgctgaagacttta	AA098517
81232	atcatatactgtttctctcagaaag	AA098517
81233	atatactgtttctctcagaaagact	AA098517
81234	tactgtttctctcagaaagactctg	AA098517
81235	tgtttctctcagaaagactctgaac	AA098517
81236	ttctctcagaaagactctgaacaaa	AA098517
81237	gactctgaacaaattaccatcagtt	AA098517
81238	tctgaacaaattaccatcagtttac	AA098517
81239	gtccctgatgctaagatcctgaatc	AA098525
81240	ccctgatgctaagatcctgaatctt	AA098525
81241	tcccactttagttgccatattgtgg	AA098525
81242	tttagttgccatattgtggtcagat	AA098525
81243	tagttgccatattgtggtcagatga	AA098525
81244	gttgccatattgtggtcagatgaat	AA098525
81245	tatgagcaacgtctcttctggaaca	AA098525
81246	tgagcaacgtctcttctggaacact	AA098525
81247	agcaacgtctcttctggaacactgc	AA098525
81248	caacgtctcttctggaacactgcag	AA098525
81249	gtctcttctggaacactgcaggctt	AA098525
81250	cttctggaacactgcaggcttgccc	AA098525
81251	tgctaagatcctgaatctttgagtt	AA098525
81252	ctaagatcctgaatctttgagtttg	AA098525
81253	gatcctgaatctttgagtttgggac	AA098525
81254	atctttgagtttgggacgcaagaga	AA098525
81255	ctttgagtttgggacgcaagagatc	AA098525
81256	tggagttcccactttagttgccata	AA098525
81257	gagttcccactttagttgccatatt	AA098525
81258	gttcccactttagttgccatattgt	AA098525
81259	atgcagcaagtccctatatacctag	U48830
81260	agcctggacatgcctaccctgaaag	U48830
81261	cagaccttgctgcctcattgggaa	U48830
81262	agttggccagctggacttcagagag	U48830
81263	cattttcaaagatagcctgggagca	U48830
81264	tagcctgggagcactgtctctgacc	U48830
81265	actgtctctgaccacctgtcttcct	U48830
81266	tctgcaccgtgctcagggaaatggc	U48830
81267	ccttcattccagaggccagctgtct	U48830
81268	ttccagaggccagctgtctgcctga	U48830
81269	aggccagctgtctgcctgacttttc	U48830
81270	gctgtctgcctgacttttcctccgt	U48830
81271	gacatgcctaccctgaaagcagctg	U48830
81272	cctaccctgaaagcagctgccttca	U48830
81273	gcagctgccttcattaccctttct	U48830
81274	gccttcattacccttttctgtgcgc	U48830
81275	cttttctgtgcgcctgttctgaagc	U48830
81276	taaacctgtccacatcttcactacc	U48830
81277	cccttctgctgaaggaatggtgacg	U48830
81278	aacaggattccccagaccctgctg	U48830
81279	gctcacatatgactacaagtttcct	AA098588
81280	ctcacatatgactacaagtttccta	AA098588
81281	caagtttcctatcgaggatgccagc	AA098588
81282	aagtttcctatcgaggatgccagca	AA098588
81283	agtttcctatcgaggatgccagcaa	AA098588
81284	gtttcctatcgaggatgccagcaac	AA098588
81285	tttcctatcgaggatgccagcaaca	AA098588
81286	ttcctatcgaggatgccagcaacaa	AA098588
81287	tcctatcgaggatgccagcaacaag	AA098588
81288	atatgactacaagtttcctatcgag	AA098588
81289	tatgactacaagtttcctatcgagg	AA098588
81290	atgactacaagtttcctatcgagga	AA098588
81291	tgactacaagtttcctatcgaggat	AA098588
81292	gactacaagtttcctatcgaggatg	AA098588
81293	ctacaagtttcctatcgaggatgcc	AA098588
81294	tacaagtttcctatcgaggatgcca	AA098588
81295	acaagtttcctatcgaggatgccag	AA098588
81296	tgctcacctatggctctcctactca	U59876
123833	tctcgggtatactccatgtaaaatg	W35766
123834	cggattgccaccgctaacaatgtta	W35766
123835	ggattgccaccgctaacaatgttat	W35766
123836	attgccaccgctaacaatgttatcc	W35766
123837	gccaccgctaacaatgttatccaga	W35766
123838	ccaccgctaacaatgttatccagac	W35766
123839	tgactctggtaaccgtcagtcaaac	W35766
123840	caccgctaacaatgttatccagaca	W35766
123841	gtaaccgtcagtcaaacagaagacg	W35766
123842	accgtcagtcaaacagaagacggat	W35766
123843	gatacaagctttcgacctccaaatc	W35766
123844	tacaagctttcgacctccaaatcat	W35766
123845	acaagctttcgacctccaaatcatt	W35766
123846	aagctttcgacctccaaatcattgt	W35766
123847	agctttcgacctccaaatcattgtt	W35766
123848	agctagaactgattctccgacaact	AA087715
123849	tagaactgattctccgacaactgca	AA087715
123850	aggtccagcacctgaggcaggacaa	AA087715
123851	tccagcacctgaggcaggacaacat	AA087715
123852	aggacaacatgcggctgcaggaaga	AA087715
123853	agtcacagacagccacagcccagct	AA087715
123854	agacagccacagcccagctgcgcaa	AA087715
123855	cagcccagctgcgcaagttcaccga	AA087715
123856	cccagctgcgcaagttcaccgagtg	AA087715
123857	tttttagcaccattgacaagaaggc	AA087715
123858	ttagcaccattgacaagaaggcctg	AA087715
123859	aggcctgatcagctcgctgctcctc	AA087715
123860	tgattctccgacaactgcagactga	AA087715
123861	ttctccgacaactgcagactgacct	AA087715
123862	tccgacaactgcagactgaccttcg	AA087715
123863	gacaactgcagactgaccttcggaa	AA087715
123864	cggtgctgcaggctgaggtccagca	AA087715
123865	tgctgcaggctgaggtccagcacct	AA087715
123866	aggctgaggtccagcacctgaggca	AA087715
123867	ctgaggtccagcacctgaggcagga	AA087715
123868	acctccaaagaacagtgctctattc	M25324
123869	cagtgctctattcaagttgggaaag	M25324
123870	ctctgatggttccttgaagtcagtg	M25324
123871	ccactctcttggagctgatgttatg	M25324
123872	aattcctgggctcaggctggagtga	M25324
123873	ttccctaacatcttctactcagata	M25324
123874	aacatcttctactcagatacctaaa	M25324
123875	ggacagctgtccccaactcttacca	M25324
123876	ccaacctgtaggctatctcattttc	M25324
123877	cattttctcgcttcactctgcaagg	M25324
123878	ctcgcttcactctgcaaggtttata	M25324
123879	tcactctgcaaggtttataacatga	M25324
123880	gtcctacttcctctgtagacccact	M25324
123881	cttcctctgtagacccactatctgt	M25324
123882	tgagtgacagccactgtagctgttc	M25324
123883	acagccactgtagctgttcacatta	M25324
123884	actgtagctgttcacattaaccttc	M25324
123885	atggccaccaaacatcaaagaaggg	M25324
123886	ctcctgcattgagttttagttttga	M25324
123887	cccttctctttattagatctctgat	M25324
123888	aagtgttactcttgttgtctacacg	W35899
123889	agtgttactcttgttgtctacacgg	W35899
123890	tgtctacacggacgatcccttgcca	W35899
123891	gtctacacggacgatcccttgccag	W35899
123892	tctacacggacgatcccttgccagt	W35899
123893	ctacacggacgatcccttgccagtt	W35899
123894	acacggacgatcccttgccagttgt	W35899
123895	cacggacgatcccttgccagttgta	W35899
123896	cggacgatcccttgccagttgtaag	W35899
123897	gacgatcccttgccagttgtaagtc	W35899
123898	gatcccttgccagttgtaagtccct	W35899
123899	tcccttgccagttgtaagtccctgg	W35899
123900	gtgttactcttgttgtctacacgga	W35899

TABLE 1

SEQ ID NO	sequence	DBAxnID
38693	gcctggcatgttggggtcctcctgc	U27340
38694	gttgacctgcctgttcacctcatga	U27340
38695	ctgcctgttcacctcatgagtgaag	U27340
38696	gttcacctcatgagtgaaggcgtct	U27340
38697	gaactgaggggtctctgtgtagagt	U27340
38698	tacaagcttcctgtgctccggttgc	U27340
38699	gttttgcactaaagtttctgtgact	U27340
38700	tcctaccatgagggagctacccagc	U27340
38701	ggagctacccagcttcctgtggtac	U27340
38702	gatcaggcctttagagcgatggaag	U27340
38703	gtggccattgtcatagcacagagat	U27340
38704	tttcagaagcacctgcaggtggctt	U27340
38705	gtggcttgcttgggatgttgctgtc	U27340
38706	ccctgggtcaccttccattctgctt	U27340
38707	gtcaccttccattctgctttcctgt	U27340
38708	tagataaatgtccccgtaagagcca	AA013594
38709	gataaatgtccccgtaagagccaga	AA013594
38710	gatcttccgcaccagtttgtattat	AA013594
38711	tcttccgcaccagtttgtattatcc	AA013594
38712	cagtttgtattatccaccgacgata	AA013594
38713	ttgtattatccaccgacgataaatt	AA013594
38714	gtattatccaccgacgataaattcg	AA013594
38715	tatccaccgacgataaattcggcct	AA013594
38716	cgataaattcggccttggagccgct	AA013594
38717	aaattcggccttggagccgctgctg	AA013594
38718	attcggccttggagccgctgctgct	AA013594
38719	tcggccttggagccgctgctgctcg	AA013594
38720	aatgtccccgtaagagccagattcg	AA013594
38721	tgtccccgtaagagccagattcgat	AA013594
38722	tccccgtaagagccagattcgatct	AA013594
38723	agagccagattcgatcttccgcacc	AA013594
38724	agccagattcgatcttccgcaccag	AA013594
38725	ccagattcgatcttccgcaccagtt	AA013594
38726	attcgatcttccgcaccagtttgta	AA013594
38727	tcgatcttccgcaccagtttgtatt	AA013594
38728	cagtttggacacgtggtagatattg	AA146248
38729	agtttggacacgtggtagatattgt	AA146248
38730	attcagtacgcaaaaacagattctg	AA146248
38731	aaatgcgtggtactttcgctgacaa	AA146248
38732	atgcgtggtactttcgctgacaagg	AA146248
38733	aagctaaaaccatggaacaggctgc	AA146248
38734	accatggaacaggctgcagctgctg	AA146248
38735	aacaggctgcagctgctgcaaacaa	AA146248
38736	caggctgcagctgctgcaaacaaga	AA146248
38737	aggctgcagctgctgcaaacaagaa	AA146248
38738	ggctgcagctgctgcaaacaagaag	AA146248
38739	caagaagcctggtcagggaacacca	AA146248
38740	aactgggttcatccacaaatgcttt	AA146248
38741	ctgggttcatccacaaatgctttga	AA146248
38742	tgggttcatccacaaatgctttgag	AA146248
38743	ggttcatccacaaatgctttgagac	AA146248
38744	gttcatccacaaatgctttgagaca	AA146248
38745	tcatccacaaatgctttgagacagt	AA146248
38746	catccacaaatgctttgagacagtt	AA146248
38747	tccacaaatgctttgagacagttac	AA146248
38748	ataccagcaacaatggcggcgtcga	AA013604
38749	gcgtcgaatacctctttgaggttgt	AA013604
38750	accggcttctctttgcacttgtcca	AA013604
38751	ttgcacttgtccagttctatgagca	AA013604
38752	ttgtccagttctatgagcactttga	AA013604
38753	tccctgaggtccgactgtgtcccga	AA013604
38754	accacgatgatgcgggcctttggtc	AA013604
38755	atgatgcgggcctttggtcagtgac	AA013604
38756	cgtcgaatctctggagaccactgat	AA013604
38757	atctctggagaccactgatcgccca	AA013604
38758	ggagaccactgatcgcccacgttct	AA013604
38759	cactgatcgcccacgttcttgaaac	AA013604
38760	aatacctctttgaggttgttctgag	AA013604
81297	tcacctatggctctcctactcagca	U59876
81298	tagatcacttcaacaatgagatgct	U59876
81299	atcacttcaacaatgagatgctcct	U59876
81300	atgagatgctcctaaacttctgttc	U59876
81301	agatgctcctaaacttctgttcttt	U59876
81302	taagataactcaaagctccccttct	U59876
81303	tctctcccagtcgtgatttgttaaa	U59876
81304	caaggtcttctcactcaagctgttg	U59876
81305	cttctcactcaagctgttgacaatg	U59876
81306	ctcactcaagctgttgacaatgcca	U59876
81307	gttgacaatgccagtgtgtttaccc	U59876
81308	atggctctcctactcagcagcaaca	U59876
81309	ctcctactcagcagcaacatgcact	U59876
81310	ctcagcagcaacatgcactgcccgg	U59876
81311	agcagcaacatgcactgcccggcaa	U59876
81312	agcaacatgcactgcccggcaagag	U59876
81313	cactgcccggcaagagcaacaggtg	U59876
81314	tgcccggcaagagcaacaggtggga	U59876
81315	agatggcatgcatgggcttagatca	U59876
81316	atacatactgattccaggaatgctt	AA098533
81317	actgattccaggaatgctttctata	AA098533
81318	gttcagttcacatcccatcaaagtg	AA098533
81319	cagttcacatcccatcaaagtggcc	AA098533
81320	ttcacatcccatcaaagtggcccct	AA098533
81321	tcccatcaaagtggccccttcataa	AA098533
81322	catcaaagtggccccttcataatcc	AA098533
81323	caaagtggccccttcataatccttg	AA098533
81324	ggccccttcataatccttgatgtag	AA098533
81325	cccttcataatccttgatgtagcca	AA098533
81326	ttcataatccttgatgtagccaaca	AA098533
81327	atccttgatgtagccaacatatttg	AA098533
81328	gattccaggaatgctttctatagga	AA098533
81329	ggagaaaccctgcttcttgaaatag	AA098533
81330	aggaatctgccgaactccatctttg	AA098533
81331	aatctgccgaactccatctttgaaa	AA098533
81332	ctgccgaactccatctttgaaacac	AA098533
81333	gtagacttttcgaatctgggcttgt	AA098533
81334	ttctatcagctttttaatgatctcc	AA098533
81335	aatgatctccttctgctttttaatg	AA098533
81336	gatctccttctgctttttaatgatg	AA098533
81337	ttggaagcctgggcgcttcggcgtc	X70298
81338	ccagtgatccactggggttgtacga	X70298
81339	catcggcgctcgatcgggacctgga	X70298
81340	cggcgctcgatcgggacctggattt	X70298
81341	actattgcacgcccgaggtgagcga	X70298
81342	agatgatctcgggagattggctgga	X70298
81343	tgatctcgggagattggctggagtc	X70298
81344	tctcgggagattggctggagtccag	X70298
81345	agtccagcatctctaacctggtctt	X70298
81346	ccagcatctctaacctggtcttcac	X70298
81347	gcatctctaacctggtcttcaccta	X70298
81348	tcacctactgaagggagcgcgggcc	X70298
81349	gtgatccactggggttgtacgaaga	X70298
81350	atccactggggttgtacgaagatgg	X70298
81351	gcagcagcgcagcatcatcgccagc	X70298
81352	tcgaagacgacctgctcgacctgaa	X70298
81353	tgctcgacctgaaccccagctcaaa	X70298
81354	actttgagagcatgtccctgggcag	X70298
81355	gcatgtccctgggcagtttcagctc	X70298
81356	gcagtttcagctcctcatcggcgct	X70298
81357	tcctaggacaacgcggcagtccgcg	AA102886
81358	taggacaacgcggcagtccgcgtgt	AA102886
81359	atattcatacgaagactgccgtgat	AA102886
81360	atacgaagactgccgtgatatccgt	AA102886
81361	ccgtgatatccgtccgttgtctacg	AA102886
81362	tgatatccgtccgttgtctacgtta	AA102886
81363	tccgttgtctacgttacactataga	AA102886
81364	gttgtctacgttacactatagaatc	AA102886
123901	tgttactcttgttgtctacacggac	W35899
123902	ttactcttgttgtctacacggacga	W35899
123903	tactcttgttgtctacacggacgat	W35899
123904	actcttgttgtctacacggacgatc	W35899
123905	ctcttgttgtctacacggacgatcc	W35899
123906	cttgttgtctacacggacgatccct	W35899
123907	ttgttgtctacacggacgatccctt	W35899
123908	aattttctgcatgtaccttcaactc	M81310
123909	gctttccaagatcaagtaagccttc	M81310
123910	tttcacttcaatctgtgattcatgt	M81310
123911	cacttcaatctgtgattcatgttgc	M81310
123912	atatattcataacagactggaaatt	M81310
123913	tattcataacagactggaaatttaa	M81310
123914	tctttgtcctcagatagtttgataa	M81310
123915	ttgtcctcagatagtttgataaata	M81310
123916	agatgcactgtgcagcgtgatagct	M81310
123917	tgcactgtgcagcgtgatagctgtt	M81310
123918	actgtgcagcgtgatagctgttagc	M81310
123919	gatagctgttagccttacatggtaa	M81310
123920	gatcaagtaagccttcccaggctgc	M81310
123921	caagtaagccttcccaggctgccct	M81310
123922	aggctgccctgaagttatccatagt	M81310
123923	agttatccatagtgcactgtcaaca	M81310
123924	ctttaagcacttcaggtgaattgaa	M81310
123925	ctgcttcaaagggtggcccaagaca	M81310
123926	gcccaagacacttggtgacataaat	M81310
123927	gatctttttcacttcaatctgtgat	M81310
123928	ggaactgttcccttgctccatggag	L15435
123929	gttcccttgctccatggagaacaag	L15435
123930	actatccttcttgtgactcctagtt	L15435
123931	tgctaagtcctcaagctgctatgtt	L15435
123932	gtcctcaagctgctatgttttatgg	L15435
123933	aagctgctatgttttatggggtctg	L15435
123934	gggtcccttccatgactttctcttg	L15435
123935	tgactttctcttgtctttaactgga	L15435
123936	tctcttgtctttaactggacttggt	L15435
123937	tatttattctgagcatagctcagac	L15435
123938	gcatagctcagacaagactttatat	L15435
123939	actgctgggcagctgctagataaaa	L15435
123940	gagtcaactgttgctcctgaaggct	L15435
123941	actgttgctcctgaaggctggccac	L15435
123942	gcatggagcccaggatgcatacaga	L15435
123943	agcccaggatgcatacagagactgg	L15435
123944	atacagagactgggagctgtcttat	L15435
123945	ggagctgtcttatcccaacaccacc	L15435
123946	caccaccagctttggactctttctt	L15435
123947	atgagaactatccttcttgtgactc	L15435
123948	acagaatcgcactgttcctaggcca	W35864
123949	tcgcactgttcctaggccatagtcc	W35864
123950	gctgctcgcaatggtcgcactgctg	W35864
123951	gctcgcaatggtcgcactgctggtc	W35864
123952	cgcaatggtcgcactgctggtcacc	W35864
123953	gctggtcaccatctgtagcctggaa	W35864
123954	ggtcaccatctgtagcctggaagga	W35864
123955	agacggaccggatatgcagagcctg	W35864
123956	tatgcagagcctgttcactcaatac	W35864
123957	agatgccgagacctcatagattcag	W35864
123958	atactttgagaagacccgcgagcag	W35864
123959	tgagaagacccgcgagcagctggcc	W35864
123960	tcctaggccatagtccgccatcatg	W35864
123961	taggccatagtccgccatcatgaag	W35864
123962	gccatagtccgccatcatgaagctg	W35864
123963	atagtccgccatcatgaagctgctc	W35864
123964	gtccgccatcatgaagctgctcgca	W35864
123965	catcatgaagctgctcgcaatggtc	W35864
123966	catgaagctgctcgcaatggtcgca	W35864
123967	gaagctgctcgcaatggtcgcactg	W35864
123968	ataactgtgggcaagcctgtgaagg	AA028742

TABLE 1

SEQ ID NO	sequence	DBAxnID
38761	tcgcccacgttcttgaaacaagtgt	AA013604
38762	ttctgagtcaacgctgagcactcga	AA013604
38763	gtcaacgctgagcactcgatgtagg	AA013604
38764	gctgagcactcgatgtaggagacag	AA013604
38765	gagacagctttgacttcctccgcgc	AA013604
38766	gctttgacttcctccgcgcacagct	AA013604
38767	tccgcgcacagcttcgtggcctctt	AA013604
38768	tcaggcaccggcttctctttgcact	AA013604
38769	acgacaggacagtctctgtgtgtaa	AA013615
38770	cgacaggacagtctctgtgtgtaac	AA013615
38771	acaactggtgatcagtgctgacata	AA013615
38772	ccagctctatgcacgccatgatctc	AA013615
38773	cagctctatgcacgccatgatctca	AA013615
38774	agctctatgcacgccatgatctcag	AA013615
38775	gctctatgcacgccatgatctcagc	AA013615
38776	ctctatgcacgccatgatctcagcc	AA013615
38777	tctatgcacgccatgatctcagcca	AA013615
38778	ctatgcacgccatgatctcagccac	AA013615
38779	tatgcacgccatgatctcagccaca	AA013615
38780	gacaggacagtctctgtgtgtaaca	AA013615
38781	acaggacagtctctgtgtgtaacac	AA013615
38782	aggacagtctctgtgtgtaacacga	AA013615
38783	actgctgtacaatcatctgatgaag	AA013615
38784	ctgtacaatcatctgatgaagatcc	AA013615
38785	tgtacaatcatctgatgaagatcct	AA013615
38786	tcctccgggacatcagacaactggt	AA013615
38787	acatcagacaactggtgatcagtgc	AA013615
38788	ggtgaagcctcaggcatcaagccca	W41880
38789	gtgaagcctcaggcatcaagcccaa	W41880
38790	caaagctccagtaaggccaggctta	W41880
38791	aaagctccagtaaggccaggcttag	W41880
38792	aagctccagtaaggccaggcttagc	W41880
38793	agctccagtaaggccaggcttagct	W41880
38794	gctccagtaaggccaggcttagctc	W41880
38795	ctccagtaaggccaggcttagctca	W41880
38796	tccagtaaggccaggcttagctcag	W41880
38797	tgaagcctcaggcatcaagcccaag	W41880
38798	tcaccccaagctgggaagcggattc	W41880
38799	caccccaagctgggaagcggattcg	W41880
38800	cgaagctacatggccaagggtagag	W41880
38801	gaagctacatggccaagggtagagg	W41880
38802	aagctacatggccaagggtagaggc	W41880
38803	tgcaaccgaagcctaaggtcaaaca	W41880
38804	gcaaagctccagtaaggccaggctt	W41880
38805	tacagaaaccctggccttcattcac	U15208
38806	ggccttcattcactgctgccttaac	U15208
38807	tgacttccgtgacgctttgtaaggt	U15208
38808	ccgtgacgctttgtaaggtgtgagt	U15208
38809	agcacctgctcgccttgtttcagtc	U15208
38810	tgctcgccttgtttcagtcagggtg	U15208
38811	caagatggcttctcaccctgcaggt	U15208
38812	ggcttctcaccctgcaggtggctcc	U15208
38813	tggctcccaagaggttcagagccct	U15208
38814	acccccttcatgacaatgagcccttg	U15208
38815	caatgagcccttgagtggatctcta	U15208
38816	gcccttgagtggatctctagttttg	U15208
38817	caagtacatcacccaactcttcaga	U15208
38818	tcccctcgtgctctgcaaacactgt	U15208
38819	cgtgctctgcaaacactgtgacttc	U15208
38820	ctgcaaacactgtgacttcctccag	U15208
38821	tgacttcctccaggtctactcggct	U15208
38822	cctccaggtctactcggctgacatg	U15208
38823	ggtctactcggctgacatgtccagc	U15208
38824	ggatcatgacttccgtgacgctttg	U15208
38825	accccagtcatctgaaaactcagat	U15209
38826	tgaaaactcagatgcctggaaggtc	U15209
38827	aatcactcaagttcttgcactttcg	U15209
38828	gttctgatagtcacttatggcaacc	U15209
81365	gtctacgttacactatagaatctat	AA102886
81366	aatctatcatggacatcgtgacatg	AA102886
81367	tcatggacatcgtgacatgcgatta	AA102886
81368	acatcgtgacatgcgattaaaacct	AA102886
81369	gtccgcgtgtctgagatgatcgact	AA102886
81370	atcgactataacctgcgcgagaacg	AA102886
81371	acaagtgatcttgcttctgttaggt	AA102886
81372	cttgcttctgttaggtactagagag	AA102886
81373	caacaccatcatcaagcagatcgct	AA102886
81374	caccatcatcaagcagatcgctatt	AA102886
81375	catcatcaagcagatcgctattatc	AA102886
81376	gcagatcgctattatctatgaagat	AA102886
81377	tcatctgaaggctctatatctatac	X67863
81378	ggctctatatctatactgacttcta	X67863
81379	tctatactgacttctagtagacgat	X67863
81380	acttcctgggcaaacatcatagata	X67863
81381	cttcctgggcaaacatcatagatag	X67863
81382	ttcctgggcaaacatcatagatagа	X67863
81383	agactaacattgggtgctaggatct	X67863
81384	gactaacattgggtgctaggatctg	X67863
81385	actaacattgggtgctaggatctgg	X67863
81386	ctaacattgggtgctaggatctggt	X67863
81387	acattgggtgctaggatctggtagg	X67863
81388	cattgggtgctaggatctggtagga	X67863
81389	gctctatatctatactgacttctag	X67863
81390	ctctatatctatactgacttctagt	X67863
81391	tctatatctatactgacttctagta	X67863
81392	ctatatctatactgacttctagtag	X67863
81393	tatatctatactgacttctagtaga	X67863
81394	atatctatactgacttctagtagac	X67863
81395	tatctatactgacttctagtagacg	X67863
81396	atctatactgacttctagtagacga	X67863
81397	ctagctgcctttgcagactgacttc	AA102943
81398	gctgcctttgcagactgacttcttg	AA102943
81399	aagctcacccatatttggagaaagaa	AA102943
81400	aacagcttcactgtgaattccaaac	AA102943
81401	tccaaacttatgtcacatcaaagac	AA102943
81402	aaacttatgtcacatcaaagacttc	AA102943
81403	cttatgtcacatcaaagacttcaga	AA102943
81404	tcacatcaaagacttcagatgggag	AA102943
81405	gacaaagcccataatgtgtgatgaa	AA102943
81406	aaagcccataatgtgtgatgaatgt	AA102943
81407	ttaatcgtacttcagaccttattca	AA102943
81408	atcgtacttcagaccttattcaaca	AA102943
81409	tttgcagactgacttcttgttcgta	AA102943
81410	cttcagaccttattcaacatcagag	AA102943
81411	gcagactgacttcttgttcgtaggc	AA102943
81412	gactgacttcttgttcgtaggcttc	AA102943
81413	taagaccctgagaaacatccttttg	AA102943
81414	gagaaacatccttttggaagactga	AA102943
81415	catccttttggaagactgaatagga	AA102943
81416	gagtttcaccaagttagagttgagg	AA102943
81417	gaggaaaagctcacccatattggag	AA102943
81418	gggaatcactacaacacttagcttc	X76653
81419	gaatcactacaacacttagcttccc	X76653
81420	atgaatcctatatctgtttgtatat	X76653
81421	tatatttgcaagccctttgtattat	X76653
81422	tatttgcaagccctttgtattataa	X76653
81423	aataccattgaaatcagcatgacaa	X76653
81424	ataacactgttggcacttataggta	X76653
81425	cactgttggcacttataggtaacgt	X76653
81426	tttaagtgcaacatttctgtatact	X76653
81427	tgcaacatttctgtatactgtaaaa	X76653
81428	actgaactgtttggtcgagtctttg	X76653
81429	tgaactgtttggtcgagtctttgtg	X76653
81430	cccataccatgacaaaacctagctt	X76653
81431	cataccatgacaaaacctagctttt	X76653
81432	gaatttattggcagccaaggaatgt	X76653
123969	actgtgggcaagcctgtgaagggtc	AA028742
123970	taacaggacccaggtctccctctag	AA028742
123971	ctccctctagggcaggatggcccag	AA028742
123972	cctctagggcaggatggcccaggac	AA028742
123973	ctagggcaggatggcccaggacctc	AA028742
123974	ggcccaggacctcagtgagaaggag	AA028742
123975	ccaggacctcagtgagaaggagctg	AA028742
123976	gaagaacccacgtgatctgatttcc	AA028742
123977	cccacgtgatctgatttccaagaca	AA028742
123978	tgatctgatttccaagacaggaaag	AA028742
123979	tctgatttccaagacaggaaaggaa	AA028742
123980	atttctcagctgatgaggcgctagg	AA028742
123981	tctcagctgatgaggcgctaggaag	AA028742
123982	cagctgatgaggcgctaggaagttc	AA028742
123983	gaagttcaaacaccattgtgtctgg	AA028742
123984	caaacaccattgtgtctgggtcctg	AA028742
123985	acaccattgtgtctgggtcctggac	AA028742
123986	ctgggtcctggaccggtgatctgga	AA028742
123987	cctggaccggtgatctggagagagc	AA028742
123988	tcggatccatggcttacgaccaact	AA124273
123989	gatccatggcttacgaccaactcaa	AA124273
123990	tgagccgtgacagttgtcagcccct	AA124273
123991	gtgacagttgtcagccccttggagc	AA124273
123992	cggaccaagctgcaggctcagcatg	AA124273
123993	aagctgcaggctcagcatgtgtcat	AA124273
123994	cagcatgtgtcataccgtgagctgg	AA124273
123995	catgtgtcataccgtgagctggctt	AA124273
123996	gcttcctctgttcaagctgcggtga	AA124273
123997	cttcgagatgtccccttctcagctc	AA124273
123998	cccttctcagctctgtactggttca	AA124273
123999	tcagctctgtactggttcaactacg	AA124273
124000	tggcttacgaccaactcaaggcctt	AA124273
124001	ctgtactggttcaactacgagttgg	AA124273
124002	acgaccaactcaaggccttcctgtg	AA124273
124003	aactcaaggccttcctgtgtggtca	AA124273
124004	aggccttcctgtgtggtcagtcctt	AA124273
124005	gtggtcagtccttgacctctgacct	AA124273
124006	acctctacgcacccatggtggctgg	AA124273
124007	tctacgcacccatggtggctggtgc	AA124273
124008	cccgaatgagccgtgacagttgtca	AA124273
124009	tggaacactattccattgtcaattt	L25108
124010	tttatcacctagctaatcaacttttt	L25108
124011	acaacattgcctcacagccctgctt	L25108
124012	acattgcctcacagccctgcttaca	L25108
124013	cacagccctgcttacattaagaagt	L25108
124014	agccctgcttacattaagaagtctc	L25108
124015	ctttctcctagctgttctgactgga	L25108
124016	tctcctagctgttctgactggattt	L25108
124017	agctgttctgactggatttttctcc	L25108
124018	ctatagaaaatacctccgttctcat	L25108
124019	atacctccgttctcatttgctgcta	L25108
124020	cctccgttctcatttgctgctattc	L25108
124021	taggctctgacagcagctcactgtc	L25108
124022	ctgacagcagctcactgtctagctt	L25108
124023	tttgttcttaatattcctcagagat	L25108
124024	cttaatattcctcagagatttctca	L25108
124025	attcctcagagatttctcagactct	L25108
124026	tcccataaccaccactgtaggttgg	L25108
124027	cataaccaccactgtaggttggctt	L25108
124028	tttaggacaacattgcctcacagcc	L25108
124029	gggcatcttgccagtgaccgtttat	W35963
124030	catcttgccagtgaccgtttatgac	W35963
124031	cttccattttgctcgggacccactg	W35963
124032	ccatttttgctcgggacccactgcca	W35963
124033	gcccatccggaacatcgttttccag	W35963
124034	catccggaacatcgttttccagtca	W35963
124035	gaacatcgttttccagtcagccgtc	W35963
124036	cgtccccaaggtcatgaaggtgagg	W35963

TABLE 1

SEQ ID NO	sequence	DBAxnID
38829	atagtcacttatggcaacccaggta	U15209
38830	acttatggcaacccaggtacattca	U15209
38831	ccaggtacattcaactaggatgaaa	U15209
38832	tctgccttagcccagtagtatgtct	U15209
38833	ttagcccagtagtatgtctgtgttt	U15209
38834	tgtaaggacccagctgattttccca	U15209
38835	cctccatctgtaagccactaataaa	U15209
38836	tctgtaagccactaataaagtgcat	U15209
38837	ctgacctcaatgactacacataata	U15209
38838	gctcaaccagaggacctgggttcaa	U15209
38839	atttccacttagatggcagctcaaa	U15209
38840	gctcaaactatctataattccaatt	U15209
38841	tcaccttgacatgaccatcttgagc	U15209
38842	gaccatcttgagctacagccatcct	U15209
38843	cttgagctacagccatcctaactgc	U15209
38844	ctacagccatcctaactgcctcaga	U15209
38845	gcctggtgcccgagcgacttcagag	AA013503
38846	tggtgcccgagcgacttcagaggcg	AA013503
38847	aagatgcggccaactaactccaggg	AA013503
38848	gatgcggccaactaactccagggcc	AA013503
38849	atgcggccaactaactccagggcct	AA013503
38850	tgcggccaactaactccagggcctg	AA013503
38851	cggccaactaactccagggcctgcg	AA013503
38852	ggccaactaactccagggcctgcgg	AA013503
38853	gccaactaactccagggcctgcgga	AA013503
38854	taactccagggcctgcggaactcct	AA013503
38855	aactccagggcctgcggaactcctg	AA013503
38856	actccagggcctgcggaactcctga	AA013503
38857	ggtgcccgagcgacttcagaggcgc	AA013503
38858	cagggcctgcggaactcctgaacga	AA013503
38859	gtgcccgagcgacttcagaggcgcg	AA013503
38860	cccgagcgacttcagaggcgcgaac	AA013503
38861	ccgagcgacttcagaggcgcgaaca	AA013503
38862	gagcgacttcagaggcgcgaacagg	AA013503
38863	agcgacttcagaggcgcgaacagga	AA013503
38864	gagaacagcggcttcttcgccgccg	AA013503
38865	agaacagcggcttcttcgccgccgc	AA013503
38866	tagcttgtaagcctcttcagctgct	AA013637
38867	agcctcttcagctgctgcgaagatg	AA013637
38868	cagctgctcatagggacttataggt	AA013637
38869	taccagaactagaccacaatacgta	AA013637
38870	aactagaccacaatacgtatagata	AA013637
38871	tagaccacaatacgtatagataagt	AA013637
38872	attatgtagcacagcgcgctcgtga	AA013637
38873	tagcacagcgcgctcgtgaaggtag	AA013637
38874	gtcaattgctactacaagtatgtca	AA013637
38875	aattgctactacaagtatgtcactg	AA013637
38876	aagtatgtcactgttccgtaagtga	AA013637
38877	taagtgacggagctgacaggtcttt	AA013637
38878	aggatccatgtcaaccatgttctgg	AA013637
38879	atccatgtcaaccatgttctggcca	AA013637
38880	gtcaaccatgttctggccactgtag	AA013637
38881	aaccatgttctggccactgtaggca	AA013637
38882	catgttctggccactgtaggcatta	AA013637
38883	ctggccactgtaggcattagtacta	AA013637
38884	attagtactatcgtctacataaata	AA013637
38885	aataggcagctgctcatagggactt	AA013637
38886	ccattgctgtctaggtcggacatgc	AA013638
38887	gacatgctaaggcccacttcagctt	AA013638
38888	ccagcttgcccagggaggtcatgct	AA013638
38889	gcttgcccagggaggtcatgctcag	AA013638
38890	tcatgctcagagcaatgatgaacac	AA013638
38891	tgaacactcagaagtcgatggtgct	AA013638
38892	acactcagaagtcgatggtgctgac	AA013638
38893	cgatggtgctgacactgttggtgtc	AA013638
38894	tggtgctgacactgttggtgtcaaa	AA013638
38895	tgctgacactgttggtgtcaaacat	AA013638
38896	tgtctctgtaggggaagaagttggc	AA013638

SEQ ID NO	sequence	DBAxnID
81433	atttattggcagccaaggaatgtgt	X76653
81434	ttattggcagccaaggaatgtgtcc	X76653
81435	aatgtgtccaagacacaagctgagg	X76653
81436	tgtgtccaagacacaagctgaggtt	X76653
81437	tgtccaagacacaagctgaggtttt	X76653
81438	cgactgggactctgtgtagatacgc	AA102970
81439	actctgtgtagatacgctgaaaatt	AA102970
81440	gtatccgcacgatgtcacttacagt	AA102970
81441	tatccgcacgatgtcacttacagtt	AA102970
81442	atccgcacgatgtcacttacagttt	AA102970
81443	acgatgtcacttacagtttgggcaa	AA102970
81444	cgatgtcacttacagtttgggcaaa	AA102970
81445	gatgtcacttacagtttgggcaaag	AA102970
81446	atgtcacttacagtttgggcaaagc	AA102970
81447	tgtcacttacagtttgggcaaagca	AA102970
81448	gtcacttacagtttgggcaaagcaa	AA102970
81449	tcacttacagtttgggcaaagcaag	AA102970
81450	tcaggtccgcgtggtatccgcacga	AA102970
81451	aggtccgcgtggtatccgcacgatg	AA102970
81452	cgcgtggtatccgcacgatgtcact	AA102970
81453	gcgtggtatccgcacgatgtcactt	AA102970
81454	cgtggtatccgcacgatgtcactta	AA102970
81455	gtggtatccgcacgatgtcacttac	AA102970
81456	tggtatccgcacgatgtcacttaca	AA102970
81457	ggtatccgcacgatgtcacttacag	AA102970
81458	tttccagaacaacctgaagaagatt	AA102935
81459	tccagaacaacctgaagaagattca	AA102935
81460	accctctaaaacttggctgtgagca	AA102935
81461	cctctaaaacttggctgtgagcaag	AA102935
81462	ctctaaaacttggctgtgagcaagg	AA102935
81463	ctaaaacttggctgtgagcaagggt	AA102935
81464	aaacttggctgtgagcaagggtggc	AA102935
81465	agcagaactggacaacccaggattt	AA102935
81466	tggacaacccaggattttcaattcg	AA102935
81467	gattttcaattcgttctgtagggca	AA102935
81468	caattcgttctgtagggcaagaaat	AA102935
81469	ttcgttctgtagggcaagaaattca	AA102935
81470	gaagattcaattccattgggctgtg	AA102935
81471	agattcaattccattgggctgtgat	AA102935
81472	ttcaattccattgggctgtgataac	AA102935
81473	tcaattccattgggctgtgataaca	AA102935
81474	attccattgggctgtgataacaaac	AA102935
81475	gtgaatccgagcttcgagaattttg	AA102935
81476	gaatccgagcttcgagaattttgag	AA102935
81477	aatccgagcttcgagaattttgagg	AA102935
81478	tcagtcacctttgaggctgacctct	U48403
81479	tgcctccactgtcatgatgtcctac	U48403
81480	gctcagatgtcttcttttctatata	U48403
81481	aggccacaacattactggatatttc	U48403
81482	atttgctaattcttgtggcttaaga	U48403
81483	taattcttgtggcttaagacatttt	U48403
81484	ttctgtacagttgtttgcccaaaat	U48403
81485	actgtcccactaactaccatagctt	U48403
81486	ccactaactaccatagctttctgtc	U48403
81487	actaccatagctttctgtctggctc	U48403
81488	atagctttctgtctggctcttacag	U48403
81489	ttctgtctggctcttacaggataga	U48403
81490	cactgtcatgatgtcctacactatt	U48403
81491	catgatgtcctacactattcccgtt	U48403
81492	tgattttggtatcctgtctattgaa	U48403
81493	tggtatcctgtctattgaaatgtgc	U48403
81494	aatgtgccattcagtatattcagat	U48403
81495	tactaacctgttcaaaatgagtggc	U48403
81496	ttgcttttaacagctcagatgtctt	U48403
81497	ttaacagctcagatgtcttcttttc	U48403
81498	ccgcatatttcccatcgactccgta	U62021
81499	atttcccatcgactccgtaatctga	U62021
81500	tgtaagccttcttgcttttgataac	U62021

SEQ ID NO	sequence	DBAxnID
124037	accttccggcacagagctgccagcg	W35963
124038	ttccggcacagagctgccagcgttc	W35963
124039	cggcacagagctgccagcgttcaac	W35963
124040	gctccttgctaacccccagaaggag	W35963
124041	cttgccagtgaccgtttatgaccag	W35963
124042	gaccgtttatgaccagcatggcttc	W35963
124043	cgtttatgaccagcatggcttccgt	W35963
124044	ttatgaccagcatggcttccgtgtc	W35963
124045	gcatggcttccgtgtcctcttccat	W35963
124046	tggcttccgtgtcctcttccatttt	W35963
124047	cttccgtgtcctcttccattttgct	W35963
124048	tgtcctcttccattttgctcgggac	W35963
124049	aatgttacactctgagctggttagc	W35964
124050	atgttacactctgagctggttagca	W35964
124051	gatgcccagttcagaagattggctg	W35964
124052	atgcccagttcagaagattggctga	W35964
124053	tgcccagttcagaagattggctgat	W35964
124054	aagattggctgatcagcttgagagt	W35964
124055	agattggctgatcagcttgagagtt	W35964
124056	gattggctgatcagcttgagagtta	W35964
124057	attggctgatcagcttgagagttat	W35964
124058	tggctgatcagcttgagagttatct	W35964
124059	tgttacactctgagctggttagcaa	W35964
124060	gttacactctgagctggttagcaaa	W35964
124061	ttacactctgagctggttagcaaag	W35964
124062	tacactctgagctggttagcaaagc	W35964
124063	ttatgggatgcccagttcagaagat	W35964
124064	tgggatgcccagttcagaagattgg	W35964
124065	gggatgcccagttcagaagattggc	W35964
124066	ggatgcccagttcagaagattggct	W35964
124067	aagctaatctcggtgattgcagtag	W35882
124068	ctaatctcggtgattgcagtagagg	W35882
124069	gaatactctttcatgcagtttctaa	W35882
124070	aatactctttcatgcagtttctaaa	W35882
124071	tggttcagcacgcgcttgatgcaca	W35882
124072	gttcagcacgcgcttgatgcacacc	W35882
124073	ttcagcacgcgcttgatgcacacca	W35882
124074	cagcacgcgcttgatgcacaccaga	W35882
124075	agcacgcgcttgatgcacaccagag	W35882
124076	acgcgcttgatgcacaccagaggtg	W35882
124077	gcgcttgatgcacaccagaggtgca	W35882
124078	cgcttgatgcacaccagaggtgcat	W35882
124079	taatctcggtgattgcagtagagga	W35882
124080	ctggcttcctgttggcgcggatagg	W35882
124081	gcttcctgttggcgcggataggagc	W35882
124082	tcctgttggcgcggataggagagct	W35882
124083	ctgttggcgcggataggagagctat	W35882
124084	ccactatcaatgtgatcgaatactc	W35882
124085	tgatcgaatactctttcatgcagtt	W35882
124086	tcgaatactctttcatgcagtttct	W35882
124087	cacatgcaaaaccccacaagtgtag	M60847
124088	gtagttccagatatgctggaatgtt	M60847
124089	ctaactttgtgtccgtctccatcca	M60847
124090	actttgtgtccgtctccatccatga	M60847
124091	attgtctgtctcactgagccaactt	M60847
124092	gtctgtctcactgagccaacttaac	M60847
124093	ctcactgagccaacttaactctgat	M60847
124094	actgagccaacttaactctgatgaa	M60847
124095	gagccaacttaactctgatgaaaca	M60847
124096	acttaactctgatgaaacagtacaa	M60847
124097	agaagaaaactcacctgtgtgaaga	M60847
124098	aaactcacctgtgtgaagaaatggt	M60847
124099	gttccagatatgctggaatgttagc	M60847
124100	tagcccttgctaggagaaagctggt	M60847
124101	aggtgaccgatttcatcaagtttgg	M60847
124102	tgaccgatttcatcaagtttggagt	M60847
124103	tgttaccggcatccccattattgct	M60847
124104	taccggcatccccattattgctaat	M60847

TABLE 1

SEQ ID NO	sequence	DBAxnID
38897	agaagttggcctagatcttgaaatt	AA013638
38898	atgctaaggcccacttcagcttctg	AA013638
38899	ctaaggcccacttcagcttctgttc	AA013638
38900	aggcccacttcagcttctgttccag	AA013638
38901	cccacttcagcttctgttccagctt	AA013638
38902	acttcagcttctgttccagcttgcc	AA013638
38903	tcagcttctgttccagcttgcccag	AA013638
38904	gcttctgttccagcttgcccaggga	AA013638
38905	tctgttccagcttgcccagggaggt	AA013638
38906	aaatcttcgatgctccaaaggaatt	U36993
38907	tcttcgatgctccaaaggaatttag	U36993
38908	aggctgcatgtgctgagctccgtga	U36993
38909	ctgcatgtgctgagctccgtgattt	U36993
38910	catgtgctgagctccgtgatttggt	U36993
38911	gtgctgagctccgtgatttggtgca	U36993
38912	ctgagctccgtgatttggtgcactc	U36993
38913	ccaaatgcaaccgctactcttgttt	U36993
38914	aatgcaaccgctactcttgtttgaa	U36993
38915	gcaaccgctactcttgtttgaaaat	U36993
38916	gctactcttgtttgaaaatggcaaa	U36993
38917	gtcatggcaatcatttcaggataag	U36993
38918	ttaggttcgatcggttcatagaaga	U36993
38919	cttttggactcggaacaagcaaatg	U36993
38920	agctactgctgattgagcttttaac	U36993
38921	ggctaaatcacagtcggatgttttt	U36993
38922	taaatcacagtcggatgtttttagg	U36993
38923	atcacagtcggatgtttttaggtat	U36993
38924	taggtattcagcaccccgattctgc	U36993
38925	gtaaggctgcatgtgctgagctccg	U36993
38926	ttctttatgcatcatggtaaagcat	U41765
38927	aaagcattgcagcagtgttgttttg	U41765
38928	tcatgagcactttaactctaaactc	U41765
38929	tgagcactttaactctaaactctga	U41765
38930	gcactttaactctaaactctgaatt	U41765
38931	aatttcaaagcttgatgtgaagtcc	U41765
38932	atttactaaggtgtgctgggtcctg	U41765
38933	attatactggtctctgggattactc	U41765
38934	atactggtctctgggattactctct	U41765
38935	ctggtctctgggattactctctcag	U41765
38936	gggattactctctcagctgtattaa	U41765
38937	tttcataatctttcataaagaagtt	U41765
38938	tgaagtgcacactctatggtacgag	U41765
38939	agtgcacactctatggtacgaggtg	U41765
38940	cactctatggtacgaggtgtttagt	U41765
38941	gtttagtatacccaagcagataggt	U41765
38942	tatacccaagcagataggtgtcgat	U41765
38943	gagaatacttccaacagttgaggtg	U41765
38944	gttaccaaaccacttgagaattcat	U41765
38945	accaaaccacttgagaattcatgag	U41765
38946	gcccgtctcgttacgtgctcgggat	AA027669
38947	ccgtctcgttacgtgctcgggatgc	AA027669
38948	tccgaggccacagcaagacgcgcga	AA027669
38949	aggccacagcaagacgcgcgaattc	AA027669
38950	aagacgcgcgaattcccggcgcaca	AA027669
38951	cgcgaattcccggcgcacagtgcta	AA027669
38952	ggtccttcgacaagactgccagcgt	AA027669
38953	tccttcgacaagactgccagcgtgt	AA027669
38954	cttcgacaagactgccagcgtgttc	AA027669
38955	tcgacaagactgccagcgtgttctt	AA027669
38956	agcgtgttcttgctggagaaggaccc	AA027669
38957	tgttcttgctggagaaggaccggct	AA027669
38958	gtctcgttacgtgctcgggatgcag	AA027669
38959	ctcgttacgtgctcgggatgcagga	AA027669
38960	ttacgtgctcgggatgcaggagctc	AA027669
38961	acgtgctcgggatgcaggagctctt	AA027669
38962	gatgcaggagctcttccgaggccac	AA027669
38963	agctcttccgaggccacagcaagac	AA027669
38964	ctcttccgaggccacagcaagacgc	AA027669

SEQ ID NO	sequence	DBAxnID
81501	ccttcttgcttttgataacacagta	U62021
81502	attatctcaacctatatctcccttg	U62021
81503	tcaacctatatctcccttgaaaata	U62021
81504	tatatctcccttgaaaatactttca	U62021
81505	cgcaaaacctaggactgaaagcaag	U62021
81506	gcccgacttatttttctaagactgca	U62021
81507	cttattttctaagactgcaaagatc	U62021
81508	cactttgtcaccagccctgggacct	U62021
81509	gtcaccagccctgggacctgaggcc	U62021
81510	catcgactccgtaatctgatgatgt	U62021
81511	gtcattccagtgagctctgatgagg	U62021
81512	aatctgatgatgttccctcttgcac	U62021
81513	atgatgttccctcttgcactgaata	U62021
81514	ttccctcttgcactgaataatacat	U62021
81515	ctgccgatggtgtccgacagcaccc	U62021
81516	atggtgtccgacagcaccctgggca	U62021
81517	agcaccctgggcattagggtggtag	U62021
81518	aggctcccaggcctagggctgagag	U62021
81519	atgcgagctctactcattcatgaga	AA103011
81520	cgagctctactcattcatgagaaga	AA103011
81521	tagcagatgccccattgttatggtg	AA103011
81522	cagatgccccattgttatggtggct	AA103011
81523	ccccattgttatggtggctggctgt	AA103011
81524	cattgttatggtggctggctgtcca	AA103011
81525	tgttatggtggctggctgtccattt	AA103011
81526	tatggtggctggctgtccattttcc	AA103011
81527	tggctgtccattttcctacagtgaa	AA103011
81528	ctgtccattttcctacagtgaagtt	AA103011
81529	tccattttcctacagtgaagttagg	AA103011
81530	attttcctacagtgaagttaggcag	AA103011
81531	ctactcattcatgagaagaagactt	AA103011
81532	aagacttcctcggtgacagctggct	AA103011
81533	acttcctcggtgacagctggctctg	AA103011
81534	tgacagctgctaatggcagtgactc	AA103011
81535	ctaatggcagtgactctgagagtga	AA103011
81536	ctcctcatcatcatcgcgatgaaga	AA103011
81537	atcatcatcgcgatgaagatgagga	AA103011
81538	aagtagcagatgccccattgttatg	AA103011
81539	gttactggccagataattggcaatg	AA103019
81540	aggaagtgcccattctgcaattccg	AA103019
81541	ggaactcggcattccaatatagtca	AA103019
81542	ctcggcattccaatatagtcagcct	AA103019
81543	tccaatatagtcagcctgcaggagt	AA103019
81544	caatatagtcagcctgcaggagtgc	AA103019
81545	atagtcagcctgcaggagtgcccat	AA103019
81546	agtcagcctgcaggagtgcccatta	AA103019
81547	agtgcccattagggatccaggcgga	AA103019
81548	tgcccattagggatccaggcggatc	AA103019
81549	ggatccaggcggatcccatctttgg	AA103019
81550	atccaggcggatcccatctttggtt	AA103019
81551	agtgcccattctgcaattccgggaa	AA103019
81552	atcccatctttggttcccgtcaatg	AA103019
81553	tgcccattctgcaattccgggaatc	AA103019
81554	cccattctgcaattccgggaatctc	AA103019
81555	cattctgcaattccgggaatctctc	AA103019
81556	ttctgcaattccgggaatctctcct	AA103019
81557	ctgcaattccgggaatctctccttt	AA103019
81558	taaaggaactcggcattccaatata	AA103019
81559	aaggaactcggcattccaatatagt	AA103019
81560	agccgtcagagcttccacatggcca	U24160
81561	ttccacatggccatgggcaacccca	U24160
81562	ttcatagtgcctgggctcacgtggc	U24160
81563	ttgccactgtgactctcaccagcag	U24160
81564	ctgtgactctcaccagcagtgcctg	U24160
81565	ctctcaccagcagtgcctggtcctt	U24160
81566	aatagacagttcctcttttatatgg	U24160
81567	cagttcctcttttatatggagaatc	U24160
81568	tccaggtgcctagtcagctctcatg	U24160

SEQ ID NO	sequence	DBAxnID
124105	cggcatccccattattgctaattca	M60847
124106	tttgtggtgctaactttgtgtccgt	M60847
124107	cagtcctgcaggctcaccatgccaa	AA008245
124108	gcactgttgctgctgctacctctta	AA008245
124109	atggcatccagctaaggtctgaaga	AA008245
124110	ggcatccagctaaggtctgaagaca	AA008245
124111	gaagacatcctagtttgtctgtgga	AA008245
124112	agacatcctagtttgtctgtggacc	AA008245
124113	gtttgtctgtggacctccacaccaa	AA008245
124114	ttgtctgtggacctccacaccaaga	AA008245
124115	ctgtggacctccacaccaagaacca	AA008245
124116	gtggacctccacaccaagaaccaag	AA008245
124117	ctccacaccaagaaccaagttgcaa	AA008245
124118	ccacaccaagaaccaagttgcaaat	AA008245
124119	actgttgctgctgctacctcttaga	AA008245
124120	tgttgctgctgctacctcttagaca	AA008245
124121	gctgctgctacctcttagacaagaa	AA008245
124122	tgctgctacctcttagacaagaaaa	AA008245
124123	ataaccccatggcatccagctaa	AA008245
124124	aacccctcatggcatccagctaagg	AA008245
124125	cctcatggcatccagctaaggtctg	AA008245
124126	tcatggcatccagctaaggtctgaa	AA008245
124127	gtggacctaacattgtctcgaaatg	W35983
124128	gacctaacattgtctcgaaatgcca	W35983
124129	gtcaacctccagcatctcattctca	W35983
124130	cagcatctcattctcagtggcaatc	W35983
124131	ctcattctcagtggcaatcaactgg	W35983
124132	attctcagtggcaatcaactgggcc	W35983
124133	ctcagtggcaatcaactgggccgca	W35983
124134	agtggcaatcaactgggccgcatcg	W35983
124135	gacgacttccttgacagtctcgagg	W35983
124136	ctcgaggacctggatgtgtcctata	W35983
124137	cggcaagttccctgggctggcatag	W35983
124138	caagttccctgggctggcataggct	W35983
124139	ctaacattgtctcgaaatgccatca	W35983
124140	ggcataggctccatgcctgccctgc	W35983
124141	acattgtctcgaaatgccatcaccc	W35983
124142	tctcgaaatgccatcacccgcattg	W35983
124143	cgaaatgccatcacccgcattgggg	W35983
124144	gccatcacccgcattggggctcgct	W35983
124145	agcctgcgctccttgcacctggatg	W35983
124146	tccttgcacctggatggcaacaggc	W35983
124147	gggcctgtcaacctccagcatctca	W35983
124148	caaagactgactccttaggcttctt	D13473
124149	ctgactcctaggcttctttcctgt	D13473
124150	ctgatttctttggtgtttagaggag	D13473
124151	tcacttctcaaggatggtaaactaa	D13473
124152	acacattcttttctctgtaagacag	D13473
124153	gttatatgcctgaactgtcacatca	D13473
124154	tgcctgaactgtcacatcattttaa	D13473
124155	ggagtcttacatgcagcatgctaga	D13473
124156	gcagcatgctagactacgatccctg	D13473
124157	tgctagactacgatccctgcatgct	D13473
124158	atccctgcatgcttgttctctaaat	D13473
124159	tttgttctgctgctaataaagtagt	D13473
124160	tgatgctatacggcttttctaaatg	D13473
124161	gcttttctaaatgctctacagctaa	D13473
124162	ctaaatgctctacagctaatggaga	D13473
124163	tcttcacaggctcatgttgtgactg	D13473
124164	aactattgtatcagctctctggtag	D13473
124165	agctctctggtagcagaaacacatc	D13473
124166	acacatctgatctgaaaggtttcct	D13473
124167	tgaaaggtttcctgtggagtctatt	D13473
124168	agtctgccaccagacccagcagaag	M34398
124169	ctgccaccagacccagcagaagcag	M34398
124170	agccattgagtcgctcaaggtgtat	M34398
124171	tgagtcgctcaaggtgtatcctgtt	M34398
124172	gtcgctcaaggtgtatcctgttctg	M34398

TABLE 1

SEQ ID NO	sequence	DBAxnID
38965	cttccgaggccacagcaagacgcgc	AA027669
38966	cagatgattccttgcatcagctccg	D42048
38967	attccttgcatcagctccgaaaagc	D42048
38968	atttctgcttcaaatcagagccgtg	D42048
38969	gcttcaaatcagagccgtgggctac	D42048
38970	aagcgtgttctatcctatttccact	D42048
38971	gttctatcctatttccactcatcta	D42048
38972	tcctatttccactcatctattcaga	D42048
38973	ttccactcatctattcagaaatgaa	D42048
38974	tccacgtgcagtcaagtcccttggg	D42048
38975	tagaactgtgtcacttccacagtgg	D42048
38976	ttgtttctacaaatcagtgctaaca	D42048
38977	atcagtgctaacactcaagtttttc	D42048
38978	tgcatcagctccgaaaagcttgctt	D42048
38979	agctccgaaaagcttgctttctgta	D42048
38980	gtcctgttgggttgctttcaatatt	D42048
38981	ctcaccctctggtgttgattcgaca	D42048
38982	ttcgacacttcttttccgttgcaat	D42048
38983	tttccgttgcaatctacgccacgta	D42048
38984	ttgcaatctacgccacgtatttctg	D42048
38985	ccacgtatttctgcttcaaatcaga	D42048
38986	gccctcagtggtacaacctctgctg	AA013581
38987	aagctcttcagcacagagacgtcac	AA013581
38988	tgtccagactgtggcaaggccttcc	AA013581
38989	ccagactgtggcaaggccttccgcc	AA013581
38990	ttccgccagagtacccatctgaaag	AA013581
38991	cgccagagtacccatctgaaagacc	AA013581
38992	acccatctgaaagaccacagacgcc	AA013581
38993	catctgaaagaccacagacgcctac	AA013581
38994	ctgaaagaccacagacgcctacaca	AA013581
38995	agacgcctacacacaggcgagcggc	AA013581
38996	ctacacaggcgagcggccctttg	AA013581
38997	cacacaggcgagcggccctttgcgt	AA013581
38998	ttcagcacagagacgtcactacagg	AA013581
38999	agcacagagacgtcactacaggtcc	AA013581
39000	acagagacgtcactacaggtccatc	AA013581
39001	acgtcactacaggtccatcggcgca	AA013581
39002	tcactacaggtccatcggcgcatcc	AA013581
39003	ctacaggtccatcggcgcatccaca	AA013581
39004	gagcggccataccctgtccagact	AA013581
39005	ccctgtccagactgtggcaaggcct	AA013581
39006	tgtctgctgttacgccctgtctcac	D42049
39007	ggaatccttgctgagttggcatctc	D42049
39008	ggccacgcatcctgttggcatatga	D42049
39009	gcatcctgttggcatatgataaata	D42049
39010	attgatgccagtgaccacttttaat	D42049
39011	gccagtgaccacttttaatgcagga	D42049
39012	ttttaatgcaggacttggagccttc	D42049
39013	acttggagccttcacagggccctag	D42049
39014	agccttcacagggccctagatgtac	D42049
39015	gccctagatgtactggggtgtcatt	D42049
39016	tgtcattctcaggagctggctgcag	D42049
39017	tctcaggagctggctgcaggttagg	D42049
39018	cttgctgagttggcatctctgaaca	D42049
39019	cagcttcctaacagcactgtgaatg	D42049
39020	ccaccactggggcatcttaggcagt	D42049
39021	catcttaggcagtctttctttatag	D42049
39022	ggacatccatcattactttgcagat	D42049
39023	ccatcattactttgcagatgggaaa	D42049
39024	ttactttgcagatgggaaagcagtg	D42049
39025	gcttatggccacgcatcctgttggc	D42049
39026	ggcggcatcagtcaccacaggttct	AA096626
39027	ggcatcagtcaccacaggttcttga	AA096626
39028	agtggcctcaggtgcccaagcacat	AA096626
39029	ctcaggtgcccaagcacatgatccc	AA096626
39030	aggtgcccaagcacatgatcccaaa	AA096626
39031	tgcccaagcacatgatcccaaattg	AA096626
39032	ccaagcacatgatcccaaattggat	AA096626

SEQ ID NO	sequence	DBAxnID
81569	tgcctagtcagctctcatgttgagg	U24160
81570	tcagtggtaccctgggaagaagaag	U24160
81571	gactgtgtagctgcctttgttactc	U24160
81572	tagggacccatcttgaggccacatt	U24160
81573	cccatcttgaggccacattgggtct	U24160
81574	ttgaggccacattgggtctgtgccc	U24160
81575	tgtgcccttggcctggcaagtttca	U24160
81576	cttggcctggcaagtttcagcctgg	U24160
81577	ctggcaagtttcagcctggtgccct	U24160
81578	agcctggtgcccttcatagtgcctg	U24160
81579	gtgcccttcatagtgcctgggctca	U24160
81580	aactgctctgatgtatggagccaag	AA103034
81581	caagaagaccctcaacactgaaggt	AA103034
81582	gaacaatagctccaatctgtacacc	AA103034
81583	tagctccaatctgtacaccatcctg	AA103034
81584	caatctgtacaccatcctggcctat	AA103034
81585	caccatcctggcctatctttctggc	AA103034
81586	ctatctttctggcaacatcaccttc	AA103034
81587	tggcaacatcaccttctacactggg	AA103034
81588	catcaccttctacactggggtatcc	AA103034
81589	ctacactggggtatccaagaaagag	AA103034
81590	gtcctttgaagagacgctggatccc	AA103034
81591	gacgctggatccctttttcctccaag	AA103034
81592	gaagaccctcaacactgaaggtgtt	AA103034
81593	gaccatgaactttgatgtggaaaat	AA103034
81594	cttcaaagtgactatcaccttccag	AA103034
81595	agtgactatcaccttccagaacaat	AA103034
81596	gactatcaccttccagaacaatagc	AA103034
81597	tatcaccttccagaacaatagctcc	AA103034
81598	cttccagaacaatagctccaatctg	AA103034
81599	ccagaacaatagctccaatctgtac	AA103034
81600	tggatcctgagattgcgctgaaaat	AA103045
81601	tgaaaattctgcatcgccagacaaa	AA103045
81602	atgtttcaatgaaccagcagaatcc	AA103045
81603	caatgaaccagcagaatccgcagcc	AA103045
81604	ggctcaatctttgggtggaatgcat	AA103045
81605	atctttgggtggaatgcatgtcaat	AA103045
81606	tgtcaatggcgcacctcctatgatg	AA103045
81607	tggcgcacctcctatgatgcaagct	AA103045
81608	acctcctatgatgcaagcttctatg	AA103045
81609	gcaagcttctatgccaggtggagtt	AA103045
81610	ttctatgccaggtggagttccagcc	AA103045
81611	cccagtgcagatggcagctgctgta	AA103045
81612	ttctgcatcgccagacaaatatccc	AA103045
81613	atcgccagacaaatatcccaacgct	AA103045
81614	agacaaatatcccaacgctgatttc	AA103045
81615	atatcccaacgctgatttcaggcaa	AA103045
81616	tgatttcaggcaaccctcagccagt	AA103045
81617	accctcagccagttcatgttgctgg	AA103045
81618	agccagttcatgttgctgggcctgg	AA103045
81619	ttcatgttgctgggcctggctcagg	AA103045
81620	actcagactgaagccctgcagcagc	U38196
81621	aaggactctgaggccatccgtagtc	U38196
81622	ggttgcttcaacttttagctctgct	U38196
81623	aagctttcctactatctacatttca	U38196
81624	tcctactatctacatttcaaaatga	U38196
81625	tatctacatttcaaaatgatctctg	U38196
81626	catttcaaaatgatctctggaaaat	U38196
81627	aatgcaatgctactgcatagataaa	U38196
81628	tgtccccctgaagcctgagctcctt	U38196
81629	cctgaagcctgagctcctttgcttt	U38196
81630	gcctgagctcctttgctttcaacta	U38196
81631	gctcctttgctttcaactatagaat	U38196
81632	tctgaggccatccgtagtcagtatg	U38196
81633	cagtatgctcattactttgacctct	U38196
81634	gctcattactttgacctctctttgg	U38196
81635	tactttgacctctctttggtgaata	U38196
81636	caagaagcctttgaccaggcttgca	U38196

SEQ ID NO	sequence	DBAxnID
124173	gtatcctgttctgcagatttttcat	M34398
124174	tcatcttggtttctgaatgactacc	M34398
124175	tttctgaatgactacctcccaattc	M34398
124176	gactacctcccaattctagtgtctc	M34398
124177	ctcccaattctagtgtctcctcagt	M34398
124178	attctagtgtctcctcagtcaataa	M34398
124179	ctagtgtctcctcagtcaataaatt	M34398
124180	tacctggccgtgcaagtaaggtcac	M34398
124181	tcaccgggttgcaacggagacaaca	M34398
124182	tgggcttaactttctcatgaatttg	M34398
124183	taactttctcatgaatttgcctgag	M34398
124184	ctttctcatgaatttgcctgaggtt	M34398
124185	tctcatgaatttgcctgaggtttcc	M34398
124186	catgaatttgcctgaggtttccaaa	M34398
124187	agaagccattgagtcgctcaaggtg	M34398
124188	cagtaaccctcttctatataagcat	M81385
124189	ccctcttctatataagcattagtta	M81385
124190	ggctttggcatggttgggtttcata	M81385
124191	ttttggccaagaggcttgttagtat	M81385
124192	catctgtttagtcatcaaggtttgt	M81385
124193	acatcttttgctgaatgtcaaatag	M81385
124194	caaatagtcacagtctaagtagcca	M81385
124195	ccaaaacctgggatgcaaagacagt	M81385
124196	tgattctgcatatggcctggaaaga	M81385
124197	acaggaaagccagtctcctacaaag	M81385
124198	tggaagatcctggcctctaagtcat	M81385
124199	gcctctaagtcatagaccaaagtct	M81385
124200	ctaagccaatactcccaacaagcaa	M81385
124201	caatactcccaacaagcaagttaga	M81385
124202	tcccaacaagcaagttagatcttac	M81385
124203	agttagatcttacttctgctgctgt	M81385
124204	atcttacttctgctgctgttgctga	M81385
124205	cttctgctgctgttgctgaaatgtg	M81385
124206	ctgctgttgctgaaatgtggctttg	M81385
124207	aaatgtggctttggcatggttgggt	M81385
124208	ttgacgccttttcagattatgccaa	M36033
124209	ccttttcagattatgccaacttcaa	M36033
124210	agattgttccttgcttcaaatatct	M36033
124211	ttccaggtagctcagtgccaactaa	M36033
124212	agcacaaagttctcagagctcttga	M36033
124213	caccaagatcagccacctcaggcat	M36033
124214	gatcagccacctcaggcatggggag	M36033
124215	ccacctcaggcatggggagtaatga	M36033
124216	agaccagagcgcctctctggcacca	M36033
124217	ctctctggcaccacagcagggatcg	M36033
124218	ggcaccacagcagggatcgtcaggt	M36033
124219	taataaacactcttgattccctgag	M36033
124220	cagattatgccaacttcaagtgaca	M36033
124221	atgccaacttcaagtgacaggtgac	M36033
124222	caaggcccacagacaggagaattgc	M36033
124223	aatggcacataggcttctattacct	M36033
124224	gcttctattacctgttaggtggaga	M36033
124225	ttagcactgatagtccttttccagt	M36033
124226	taatgaaatcctcagcctggaaact	M36033
124227	cagcctggaaactgggccagattgt	M36033
124228	tcaagcccaattacgacgtgactct	M63848
124229	ccaattacgacgtgactctgacaaa	M63848
124230	ttcccttggggcacataaagcgaat	M63848
124231	tcaatgccattaacaattctgaaat	M63848
124232	ggttacggctctgcattcaatcgaa	M63848
124233	ggctctgcattcaatcgaaatggga	M63848
124234	ctttggccctaaagatggcaactga	M63848
124235	tgaaattcacacgtcctctattcaa	M63848
124236	tcacacgtcctctattcaaggatct	M63848
124237	gtcctctattcaaggatctcgctgc	M63848
124238	cccatgatcaagctgtccacaccta	M63848
124239	atcaagctgtccacacctaccaaga	M63848
124240	acgacgtgactctgacaaatgcttg	M63848

TABLE 1

SEQ ID NO	sequence	DBAxnID
39033	acatgatcccaaattggatgctgag	AA096626
39034	tgatcccaaattggatgctgagtgg	AA096626
39035	tgcaaaatcatacagtccggaagaa	AA096626
39036	atcatacagtccggaagaagcactg	AA096626
39037	caaactgcacaacaaggagaatagt	AA096626
39038	atcagtcaccacaggttcttgaaac	AA096626
39039	ttcttgaaacatgactcctactgtc	AA096626
39040	catgactcctactgtccttctgtta	AA096626
39041	gactcctactgtccttctgttaatc	AA096626
39042	tcctactgtccttctgttaatcctg	AA096626
39043	ccttctgttaatcctgtgctttgga	AA096626
39044	gttaatcctgtgctttggagtggcc	AA096626
39045	aatcctgtgctttggagtggcctca	AA096626
39046	ggctggctccaggattggagccttc	U12791
39047	gattggagccttctcctacggctca	U12791
39048	agacacaagcaatctcttcccaggt	U12791
39049	aagcaatctcttcccaggtacttgg	U12791
39050	gtaccttgaacgagtggatgagatg	U12791
39051	gagatccatgcaacaattccccggg	U12791
39052	agccgagctgctacccaaacagcat	U12791
39053	acccaaacagcatctgcttaaaatc	U12791
39054	ctagacacagcagcctcataggatc	U12791
39055	gcctcataggatctgctctgtggtg	U12791
39056	agcccacaggctcatgctgctgtgg	U12791
39057	gaccagagctcccctgtgaagaggg	U12791
39058	cggctcaggcttagcagcaagtttc	U12791
39059	cttttcattccgagtgtccaaggat	U12791
39060	attccgagtgtccaaggatgcttcc	U12791
39061	tctagactcccggagacgcatgtcc	U12791
39062	ctcccggagacgcatgtcccctgag	U12791
39063	gagacgcatgtcccctgaggaattc	U12791
39064	ttaccacaaggtgaacttctctcca	U12791
39065	ctctccacctggagacacaagcaat	U12791
39066	cattgatgtccaccactgccacatc	AA013747
39067	ccactgccacatcatatccaaacta	AA013747
39068	gaactggcactatactttcatcatt	AA013747
39069	ctggcactatactttcatcattatc	AA013747
39070	ctatactttcatcattatcatgtct	AA013747
39071	tactttcatcattatcatgtctctc	AA013747
39072	tttcatcattatcatgtctctccac	AA013747
39073	catcattatcatgtctctccaccaa	AA013747
39074	cattatcatgtctctccaccaactt	AA013747
39075	tatcatgtctctccaccaacttcat	AA013747
39076	tcatagggcccatcttcaaatgatg	AA013747
39077	tagggcccatcttcaaatgatgtta	AA013747
39078	catcatatccaaactaggaatccag	AA013747
39079	ggcccatcttcaaatgatgttattg	AA013747
39080	ttggagcaccagactctacagttat	AA013747
39081	caccagactctacagttatgttatc	AA013747
39082	cagactctacagttatgttatcttt	AA013747
39083	caatacacttccctgtagccagtgt	AA013747
39084	tacacttccctgtagccagtgtaac	AA013747
39085	ctgtagccagtgtaacgcctaggta	AA013747
39086	tagccagtgtaacgcctaggtatct	AA013747
39087	accggcctggctccactgaatcagg	U49507
39088	ctggctccactgaatcaggaaggtc	U49507
39089	gatcccacgatcctcgggatgctgg	U49507
39090	ctcgggatgctggcttcaggtcacg	U49507
39091	gcttcaggtcacgggaccctcagta	U49507
39092	ggtcacgggaccctcagtatgatgg	U49507
39093	gggaccctcagtatgatgggcgact	U49507
39094	cgccttactctgagactgactcgca	U49507
39095	actctgagactgactcgcaggcctc	U49507
39096	agactgactcgcaggcctcgaggga	U49507
39097	tctgatcccacgttttgttatgtag	U49507
39098	tgaaactcttcaccaagcctaataa	U49507
39099	atgcacctccgagaagtcgcagccg	U49507
39100	ctccgagaagtcgcagccgggatga	U49507
81637	gcctttgaccaggcttgcagttctc	U38196
81638	agttctccacagtgggtgcctgtct	U38196
81639	gtttcagccagcatttggaatgcca	U38196
81640	tgccctctttccggtccacactagg	AA103047
81641	tccggtccacactagggacgcctga	AA103047
81642	cagtctgatggccaactgctgcaac	AA103047
81643	gtctgatggccaactgctgcaactt	AA103047
81644	tctgatggccaactgctgcaacttg	AA103047
81645	tgatggccaactgctgcaacttgtt	AA103047
81646	gatggccaactgctgcaacttgttc	AA103047
81647	tggccaactgctgcaacttgttcaa	AA103047
81648	ggccaactgctgcaacttgttcaag	AA103047
81649	ccaactgctgcaacttgttcaagcg	AA103047
81650	ctgctgcaacttgttcaagcggtgg	AA103047
81651	gctgcaacttgttcaagcggtggcg	AA103047
81652	ccggtccacactagggacgcctgag	AA103047
81653	ggtccacactagggacgcctgaggc	AA103047
81654	ccacactagggacgcctgaggcgtg	AA103047
81655	cacactagggacgcctgaggcgtgg	AA103047
81656	gatgttcagtctgatggccaactgc	AA103047
81657	tgttcagtctgatggccaactgctg	AA103047
81658	gttcagtctgatggccaactgctgc	AA103047
81659	tcagtctgatggccaactgctgcaa	AA103047
81660	agctaaattctccctggttggcatc	D37837
81661	attctccctggttggcatcggagga	D37837
81662	cccggttctggatctcattgacgcc	D37837
81663	tctggatctcattgacgccattcag	D37837
81664	tgacgccattcagccaggttccata	D37837
81665	gccaggttccataaactatgaccttt	D37837
81666	tgaccttctaaagacagaaaacttg	D37837
81667	gaaactcaacaatgcaaagtatgcc	D37837
81668	tgcaaagtatgccatctctatggcc	D37837
81669	agtgaaccccaaaatggtcatgaca	D37837
81670	catggctgcccaggatgcagaggac	D37837
81671	agaggaccattcaagcattgcaaag	D37837
81672	aaaccgaactctcacgctggcattg	D37837
81673	cattcaagcattgcaaagtcctgac	D37837
81674	aactctcacgctggcattggtttgg	D37837
81675	cacactgaatatcctggaagatatc	D37837
81676	tgacattattgtcaactgggtgaat	D37837
81677	tattgtcaactgggtgaatatgacc	D37837
81678	acagaaaagctcatccattgctagc	D37837
81679	tgctagcttcaaggacccaaagatc	D37837
81680	cagcctcccggttctggatctcatt	D37837
81681	cgagcccagcgaccgaaattgcgag	Y07960
81682	gcccagcgaccgaaattgcgaggac	Y07960
81683	gagcttctgtccccagtctgggaga	Y07960
81684	ctgtccccagtctgggagacttgtg	Y07960
81685	tccccagtctgggagacttgtgtcc	Y07960
81686	tcggacctccgcagtgtgcggcgct	Y07960
81687	cggacaccggcaggcacacacttac	Y07960
81688	acaccggcaggcacacacttacttc	Y07960
81689	ggcacacacttacttccgcgccttg	Y07960
81690	ctctagcagatcagctgatacctgg	Y07960
81691	tccccatgtcgctgaggcttctacc	Y07960
81692	ccatgtcgctgaggcttctacccct	Y07960
81693	aaattgcgaggactgagcgtcgccg	Y07960
81694	atgccgtttgctttctaatcatttc	Y07960
81695	taatcatttcattactactttgaat	Y07960
81696	tcatttcattactactttgaatgca	Y07960
81697	cattactactttgaatgcagacaat	Y07960
81698	gcccggaagccaatcccaggtgtca	Y07960
81699	atcccaggtgtcagcgagcttctgt	Y07960
81700	agcgagcttctgtccccagtctggg	Y07960
81701	gagtcggttgctgcagagagctcgc	AA103078
81702	gagagctcgccagctctagagaatg	AA103078
81703	tctcatcgctgctatgacctagttc	AA103078
81704	tgctatgacctagttcccacaagtt	AA103078
124241	tgactctgacaaatgcttgcattgc	M63848
124242	atgcttgcattgccttaagtcaaag	M63848
124243	tcagcatcgcagacctgaaggatct	M63848
124244	acctgaaggatctctcgtcccatca	M63848
124245	aggatctctcgtcccatcagctgaa	M63848
124246	atgagttcctggcacaggtgcttca	M63848
124247	tgcttcagaaggcacctcttccctt	M63848
124248	ccctcagagaaccatggcgtctggc	AA106492
124249	cctcagagaaccatggcgtctggca	AA106492
124250	gtgcactacgcggcccgagaggcca	AA106492
124251	cggcccgagaggccatggcattcct	AA106492
124252	ggcccgagaggccatggcattccttt	AA106492
124253	gcccgagaggccatggcattccttc	AA106492
124254	gaggccatggcattccttcgggaat	AA106492
124255	aggccatggcattccttcgggaata	AA106492
124256	ggccatggcattccttcgggaatac	AA106492
124257	ccatggcattccttcgggaatactt	AA106492
124258	catggcattccttcgggaatacttt	AA106492
124259	atggcattccttcgggaatactttg	AA106492
124260	agagaaccatggcgtctggcagtat	AA106492
124261	gagaaccatggcgtctggcagtatg	AA106492
124262	gaaccatggcgtctggcagtatggc	AA106492
124263	aaccatggcgtctggcagtatggca	AA106492
124264	accatggcgtctggcagtatggcaa	AA106492
124265	catggcgtctggcagtatggcaacc	AA106492
124266	gtgcagctgtgcactacgcggcccg	AA106492
124267	cagctgtgcactacgcggcccgaga	AA106492
124268	caaagcccctagagctgagttctca	M90470
124269	agctgagttctcagaacttgaagag	M90470
124270	ctgcatgttcaggcatgtttcaggg	M90470
124271	gttcaggcatgtttcagggatgtgc	M90470
124272	gcatgtttcagggatgtgcgggcaa	M90470
124273	tcagtctttggtctttgaaaccaga	M90470
124274	cactgcaggagtcagttgggaaccc	M90470
124275	ggaaccctggattgtccactcctca	M90470
124276	ctggattgtccactcctcataagta	M90470
124277	tgtccactcctcataagtatctttt	M90470
124278	ataagtatcttttctctgctcattc	M90470
124279	tctctgctcattccagggctacaaa	M90470
124280	gccttcttggctcttggctgccctc	M90470
124281	tcaagaccctcaaacccaggtgcct	M90470
124282	aacagtgcaatggctcctcctcaag	M90470
124283	gcaatggctcctcctcaagttccat	M90470
124284	gctcctcctcaagttccattccagg	M90470
124285	cctcaagttccattccaggcatcca	M90470
124286	ttccaggcatccagtaggctctgcc	M90470
124287	cctgtgctgcatgttcaggcatgtt	M90470
124288	aaactgccttcgacatccttcagta	W36875
124289	ccttcgacatccttcagtactcaga	W36875
124290	tcagcctggcaggctttggctacga	W36875
124291	gctacgacctcagtcaacccaggac	W36875
124292	cccctctgcactactttgacagtca	W36875
124293	actttgacagtcagtgcatgggcgc	W36875
124294	acagtcagtgcatgggcgccatgca	W36875
124295	ccatgcactggcaggtcatgcacaa	W36875
124296	tgcacaatgtgaccacagagaccaa	W36875
124297	atgtgaccacagagaccaagttcct	W36875
124298	agaccaagttcctcctgaagctcct	W36875
124299	agttcctcctgaagctcctcaagga	W36875
124300	acatccttcagtactcagagcctca	W36875
124301	ttcagtactcagagcctcagtcaag	W36875
124302	agcctcagtcaagattctggggcca	W36875
124303	agtcaagattctggggccatgataa	W36875
124304	gattctggggccatgataagaacat	W36875
124305	gcgtcattgccgttgtcttggctac	W36875
124306	ttgtcttggctacacatctgtgtga	W36875
124307	tggctacacatctgtgtgatgaagt	W36875
124308	ctctcacctgtctgcttatccagct	M15177

TABLE 1

SEQ ID NO	sequence	DBAxnID
39101	gaagtcgcagccgggatgacctcta	U49507
39102	gggatgacctctatgaccccgacga	U49507
39103	acctctatgaccccgacgatcctag	U49507
39104	atgaccccgacgatcctagagactt	U49507
39105	ccgacgatcctagagacttgccaca	U49507
39106	gagatccccactattatgatgattt	U49507
39107	gcaagcccgggtttcatgtatgaaa	L16904
39108	acacaagcctaaaggctcagggatc	L16904
39109	caggtgtctccaatgctgtctcact	L16904
39110	tctccaatgctgtctcactgggtgt	L16904
39111	atgctgtctcactgggtgtatcaac	L16904
39112	tatcaacacctcagggcccacacaa	L16904
39113	cttttgctttgcatttctgcacaca	L16904
39114	ctttgcatttctgcacacacacaat	L16904
39115	atttctgcacacacacaatccctca	L16904
39116	tccctcacacatacaaacagtgaca	L16904
39117	acacatacaaacagtgacaccacac	L16904
39118	tgtcacaggtcatccagaactcatg	L16904
39119	gacttccagacacaacagatgcaca	L16904
39120	gtcacaggtcatccagaactcatgg	L16904
39121	cagacacaacagatgcacattatga	L16904
39122	atgcacattatgaactctcaagagt	L16904
39123	aactctcaagagtccatgcagtgtg	L16904
39124	caagagtccatgcagtgtgtgcagg	L16904
39125	tccatgcagtgtgtgcaggttcaag	L16904
39126	cagtgtgtgcaggttcaaggaagac	L16904
39127	tgtaattgacacctgctagcaaata	L16904
39128	agctgtttacttcccagaccatgat	U12932
39129	ttacttcccagaccatgatgaagtt	U12932
39130	actgctacactagggatctggtgta	U12932
39131	aagtatgtaccttcaaggagctggt	U12932
39132	taagattgcctggctgtgcccgcca	U12932
39133	catatccagtagccactgaatgtca	U12932
39134	cagtagccactgaatgtcactgtgg	U12932
39135	ccactgaatgtcactgtggcaagtg	U12932
39136	aatgtcactgtggcaagtgtgacag	U12932
39137	gtgacagcgacagcactgactgcac	U12932
39138	gcgacagcactgactgcaccgtgag	U12932
39139	ccagctactgctccttcagtgaaat	U12932
39140	gcatcttattctggtgctggagagc	U12932
39141	tattctggtgctggagagcaatctg	U12932
39142	gctgccatagctgtgaattgaccaa	U12932
39143	tgaccaacatcaccatctcagtaga	U12932
39144	acatcaccatctcagtagagaagga	U12932
39145	gccgtttctgcataagcatcaatac	U12932
39146	taagcatcaatacccacttggtgtgc	U12932
39147	ccacttggtgtgcgggctactgcta	U12932
39148	tattcagcagttcttactaactctg	X72711
39149	gtgaattgcagttctgcaggtgaag	X72711
39150	ctgggtcagacccacaggctcattc	X72711
39151	cagacccacaggctcattctggccg	X72711
39152	cacaggctcattctggccgggagat	X72711
39153	ctcattctggccgggagatgctgtc	X72711
39154	tctataagccctactggaattccag	X72711
39155	agccctactggaattccagattgta	X72711
39156	gggccaagctctgtctttttgagtt	X72711
39157	gtctttttgagttctcatggccttg	X72711
39158	ttgagttctcatggccttgttggga	X72711
39159	tctcatggccttgttgggagaagaa	X72711
39160	gagctcaaattcccagcatcccctt	X72711
39161	gaccacattgctgctataggtagtc	X72711
39162	gaagccacttggctagtcagggtgt	X72711
39163	tgcacacatgggactgctacacatt	X72711
39164	actgctacacattcctgtccccatg	X72711
39165	tcctgtccccatgcagtcttagcca	X72711
39166	ccccatgcagtcttagccatcaggt	X72711
39167	ttagccatcaggttgaaaccagtag	X72711
39168	gctgctgctgagcccaagtgtggtg	U25145
81705	tatgacctagttcccacaagttcca	AA103078
81706	gtatttgacacttcgctacaggtaa	AA103078
81707	tttgacacttcgctacaggtaaaga	AA103078
81708	gacacttcgctacaggtaaagaaag	AA103078
81709	ggcatgctgaccatcaccgagttca	AA103078
81710	ctgaccatcaccgagttcatcaaca	AA103078
81711	accatcaccgagttcatcaacattt	AA103078
81712	atcaccgagttcatcaacattttgc	AA103078
81713	tcgccagctctagagaatgagcact	AA103078
81714	gagttcatcaacattttgcaccgat	AA103078
81715	gagaccccggaatcaaacaatagtg	AA103078
81716	agtgtgtatacttccttcatgaagt	AA103078
81717	gtgtatacttccttcatgaagtctc	AA103078
81718	acttccttcatgaagtctcatcgct	AA103078
81719	tccttcatgaagtctcatcgctgct	AA103078
81720	ttcatgaagtctcatcgctgctatg	AA103078
81721	aagtctcatcgctgctatgacctag	AA103078
81722	atcactgagctgtgcttctgctcct	X80899
81723	actgagctgtgcttctgctcctgat	X80899
81724	gcaacctgcctctatttgtgggcag	X80899
81725	tgcctctatttgtgggcagttggtt	X80899
81726	tgtgtctcgcccagaacctagggaa	X80899
81727	gtctcgcccagaacctagggaaatg	X80899
81728	agcacctgtcagtgctgcacattag	X80899
81729	cagtgctgcacattagacagctgtg	X80899
81730	tgctgcacattagacagctgtgtca	X80899
81731	tgcacattagacagctgtgtcagga	X80899
81732	agctgtgtcaggacttctcctttaa	X80899
81733	atgattgaccggactgcggaataaa	X80899
81734	gagctgtgcttctgctcctgatttc	X80899
81735	ttctgctcctgatttccctggagtt	X80899
81736	ccctggagttctgcaggaaagttgc	X80899
81737	aagttgctctccagctcattcgtgg	X80899
81738	ttgctctccagctcattcgtggcca	X80899
81739	tcattcgtggccagccgtgctcagg	X80899
81740	agccgtgctcagggcctcgggactc	X80899
81741	atagcaacctgcctctatttgtggg	X80899
81742	caatgccgttcttattctgtaacat	Z35166
81743	atgattattcatactggctgtcaac	Z35166
81744	ctgttcacagtcaaactactgctat	Z35166
81745	acagtcaaactactgctatccctcc	Z35166
81746	tgttcacaagtgcaggctctgaggg	Z35166
81747	caggctctgagggtgctggacaagc	Z35166
81748	gagccagtccatttatagaatgcca	Z35166
81749	actcctacagtttctggctggcttc	Z35166
81750	cgctgaacccagaaagaatgttcag	Z35166
81751	tgttcagaaaacctattccatcaac	Z35166
81752	ctattccatcaactgtgaaagctgg	Z35166
81753	aaatcataagccgctgtcaggtgtg	Z35166
81754	attcatactggctgtcaacaccagc	Z35166
81755	caccagctctgatgccaatggacat	Z35166
81756	ctctgatgccaatggacatggctcc	Z35166
81757	tggacatggctccaattagtggcag	Z35166
81758	ttagcagatgcaccgtctgtgaagg	Z35166
81759	gatgcaccgtctgtgaaggtccagc	Z35166
81760	caatggccatagctgttcacagtca	Z35166
81761	ccatagctgttcacagtcaaactac	Z35166
81762	gccaagaccgtggcgtatttctacg	AA102998
81763	gaccccgatgtgggcaacttccact	AA102998
81764	gtcctgcattatggtctctataaga	AA102998
81765	atcgtcttcaagccttaccaggcct	AA102998
81766	caggcctcccagcatgacatgtgcc	AA102998
81767	tcccagcatgacatgtgccgcttcc	AA102998
81768	cgcttccattctgaggactacatcg	AA102998
81769	cattctgaggactacatcgactccc	AA102998
81770	tacatcgactccctgggctgtgatc	AA102998
81771	cgattaggctgcttcaatctcagca	AA102998
81772	ggctgcttcaatctcagcattcgag	AA102998
124309	cctgtctgcttatccagctctggaa	M15177
124310	actgcttcctgcaagagccaacact	M15177
124311	tcctgcaagagccaacactcagcag	M15177
124312	aagagccaacactcagcagacagag	M15177
124313	caacactcagcagacagagcctacg	M15177
124314	tcagcagacagagcctacgagcaac	M15177
124315	gcctacgagcaaccaatccttgcag	M15177
124316	gagcaaccaatccttgcagagactc	M15177
124317	ccaatccttgcagagactccagtat	M15177
124318	aatcctctaggagccactgtgacca	M15177
124319	cttggactctgacgccattgaacaa	M15177
124320	tgacaactcctctgacagtgactat	M15177
124321	tgactatgacctgcaagtggctcag	M15177
124322	tgacctgcaagtggctcagagactg	M15177
124323	gcgccagtgtctacgcttggacatt	M15177
124324	ccactttgagtgctgcccacttcca	M15177
124325	tgagtgctgcccacttccacttcag	M15177
124326	gccaaggtcctctggacaagatcgc	M15177
124327	cacggcagcctgactgcttcctgca	M15177
124328	atttccatggtgctgggcctcatag	W36889
124329	ttgatctccatctggggagccaagt	W36889
124330	tgccttcagatagtgacagagccca	W36889
124331	gtgacagagcccaagtcctcggatc	W36889
124332	gagcccaagtcctcggatctctgga	W36889
124333	tcggatctctggatcatcacccaga	W36889
124334	ctctggatcatcacccagacggtca	W36889
124335	atcatcacccagacggtcactcaca	W36889
124336	acccagacggtcactcacattgggg	W36889
124337	actcacattggggctctcagcttcg	W36889
124338	gctctcagcttcgctgtggcgatgg	W36889
124339	gtgactggactcctcacaggttgtc	W36889
124340	tccatctggggagccaagtgtccac	W36889
124341	gccaagtgtccacgggcgtgtttga	W36889
124342	tgtttgaaccacatgctgcagaact	W36889
124343	aaccacatgctgcagaactccagtg	W36889
124344	atgctgcagaactccagtgggatcc	W36889
124345	ctgctgggagcacttacctactact	W36889
124346	ggagcacttacctactactgccttc	W36889
124347	cttacctactactgccttcagatag	W36889
124348	acattcttggctcttctctttcctg	X07997
124349	cttctctttcctggtgtgccatgat	X07997
124350	ttgtgggatccagtcctggaggaca	X07997
124351	caagttcttagcctctgtagctctt	X07997
124352	tagctttcccatctttccctgcaag	X07997
124353	ctgcaaggccacaccgtgcatttac	X07997
124354	ggccacaccgtgcatttacagcagt	X07997
124355	accgtgcatttacagcagtgtggca	X07997
124356	catttacagcagtgtggcaaggtgt	X07997
124357	ggaccttgaacctggctggccaggg	X07997
124358	agagctgttgttccttctgggctgt	X07997
124359	gttgttccttctgggctgtctccat	X07997
124360	tttcctggtgtgccatgatccaggg	X07997
124361	gatgtttttcactgtccatgaattc	X07997
124362	atggctgtccagtctaagctcaggg	X07997
124363	gtccagtctaagctcagggcagcct	X07997
124364	gcagcctcttcaaccactgttggcc	X07997
124365	tcttcaaccactgttggcccagcct	X07997
124366	gccctgtccctcagtattgaacttg	X07997
124367	gaacttggctgcttgtgggatccag	X07997
124368	ggctgcttgtgggatccagtcctgg	X07997
124369	catctgccctcctaatattgaaagt	X04653
124370	atctgccctcctaatattgaaagta	X04653
124371	catgaccctggaggcacacagccag	X04653
124372	tgaccctggaggcacacagccagca	X04653
124373	ccctggaggcacacagccagcacag	X04653
124374	tctggggtcctgcaatgttcccaca	X04653
124375	gcaatgttcccacatgtatcctgaa	X04653
124376	caatgttcccacatgtatcctgaat	X04653

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
39169	gtgccggcctgtcaacgcaactctg	U25145	81773	ctcagcattcgaggacatggggaat	AA102998	124377	ttcccacatgtatcctgaatgtccc	X04653
39170	gcctcagccagtgtgcacctaccgg	U25145	81774	ttccactatggagctggacacccaa	AA102998	124378	tcccacatgtatcctgaatgtcccc	X04653
39171	gccagtgtgcacctaccgggagctt	U25145	81775	gctggacacccaatgaaacctcatc	AA102998	124379	cacatgtatcctgaatgtccccctg	X04653
39172	gtgcacctaccgggagcttgcgttc	U25145	81776	cacccaatgaaacctcatcgcctgg	AA102998	124380	tgaatgtccccctgttgagtccaat	X04653
39173	catagtctcctttcctgtagccctc	U25145	81777	atgaaacctcatcgcctggcattga	AA102998	124381	ccctcctaatattgaaagtatggag	X04653
39174	ctgccggctcagtagctctgactgt	U25145	81778	cctcatcgcctggcattgactcata	AA102998	124382	gaaataccatgttttgcctttatag	X04653
39175	tcaccaccagcaggtgttctaatca	U25145	81779	gcattgactcatagcctagtcctgc	AA102998	124383	taccatgttttgcctttatagccct	X04653
39176	aaaggctttccaactgcgcttccat	U25145	81780	actcatagcctagtcctgcattatg	AA102998	124384	tttatagccctgctgggtaggtagg	X04653
39177	tttccaactgcgcttccatgttctt	U25145	81781	agcctagtcctgcattatggtctct	AA102998	124385	taggtgctctaatcctctctagggc	X04653
39178	actgcgcttccatgttctttagtag	U25145	81782	acagatgcctacacttgggtttatt	Y08260	124386	aggtgctctaatcctctctagggct	X04653
39179	cttccatgttctttagtaggctctg	U25145	81783	aagcgctttttacattccttgcaat	Y08260	124387	cattttgttgtggattgctgctcat	X04653
39180	gcctgtcaacgcaactctggccgca	U25145	81784	ttgccatacagtgcctttccattga	Y08260	124388	tcatgaccctggaggcacacagcca	X04653
39181	tctttagtaggctctgaggacacag	U25145	81785	tttgctcttcatttaaaccaaatca	Y08260	124389	gccctgctggtgtgccaatcaagga	D86232
39182	caacgcaactctggccgcagagaat	U25145	81786	ttaaaccaaatcatatttcatagtt	Y08260	124390	tgccaatcaaggatcctaacatcag	D86232
39183	aactctggccgcagagaatgagttc	U25145	81787	atatttcatagtttacgctcgaggg	Y08260	124391	ctattcttgggcctggaggcatgtg	D86232
39184	caccagcatctgtgccggctactgt	U25145	81788	ttcttggcagcttttaacattatag	Y08260	124392	ttgggcctggaggcatgtgcccagc	D86232
39185	catctgtgccggctactgtcctagc	U25145	81789	gactgctggtcacagttgcaaatca	Y08260	124393	tgtgcccagcacatgtaacaggcag	D86232
39186	tcctagcatggtccgagtactgccg	U25145	81790	aagtctgagcagctgctgtatatag	Y08260	124394	gcccagcacatgtaacaggcagtat	D86232
39187	catggtccgagtactgccggctgct	U25145	81791	ttgtggcaccttatgttgcacttat	Y08260	124395	gttcccatgtgtgtcctgtcaatga	D86232
39188	tcctgtgcctcagccagtgtgcacc	U25145	81792	caccttatgttgcacttatgttggg	Y08260	124396	cccatgtgtgtcctgtcaatgaccc	D86232
39189	tgtagtttcccaccatggcatcgcg	AA013830	81793	ttttaatcacagtcacaggacttttt	Y08260	124397	atgtgtgtcctgtcaatgacccctg	D86232
39190	agtttcccaccatggcatcgcgctt	AA013830	81794	tttttacattccttgcaatactgat	Y08260	124398	ctgtcaatgacccctgctgagtcca	D86232
39191	cttcacaaacatttcttcggtgctt	AA013830	81795	cattccttgcaatactgatggtggt	Y08260	124399	tcaatgacccctgctgagtccaata	D86232
39192	cacaaacatttcttcggtgctttgc	AA013830	81796	tgatgcgcaggtctcattggttcgt	Y08260	124400	acccctgctgagtccaataaaagct	D86232
39193	catttcttcggtgctttgcgcctcc	AA013830	81797	gcaggtctcattggttcgttcattc	Y08260	124401	ctcatgtgcaaccactctttcctgg	D86232
39194	ttcttcggtgctttgcgcctccaca	AA013830	81798	ctcattggttcgttcattctgcagt	Y08260	124402	cactctttcctggagtcctctagtg	D86232
39195	ttcggtgctttgcgcctccacatta	AA013830	81799	ggttcgttcattctgcagttgccat	Y08260	124403	tctttcctggagtcctctagtgaca	D86232
39196	ttgcgcctccacattacggacgatg	AA013830	81800	ttcattctgcagttgccatacagtg	Y08260	124404	atagaatgtccaatgtggggatagt	D86232
39197	cgcctccacattacggacgatgcaa	AA013830	81801	ctgcagttgccatacagtgcctttc	Y08260	124405	aaatctgtacttcttgcaatgtcat	D86232
39198	cacattacggacgatgcaagggatg	AA013830	81802	tataccatagtaccagtaggggctt	D90225	124406	tctgtacttcttgcaatgtcattta	D86232
39199	attacggacgatgcaagggatgacc	AA013830	81803	ttacatgttttctcttgtgcatcaa	D90225	124407	cttcttgcaatgtcatttagttgat	D86232
39200	gaccacagtttcattgcatgaagtg	AA013830	81804	tataaatcattctattggagagaaa	D90225	124408	agttgatctgtgctattcttgggcc	D86232
39201	ttcccaccatggcatcgcgcttatc	AA013830	81805	aaatcattctattggagagaaatgc	D90225	124409	gagagacacccaagctggcgaagtg	AA072843
39202	ccatggcatcgcgcttatccatttt	AA013830	81806	aaatgcattgttttctgccagtgga	D90225	124410	agagacacccaagctggcgaagtga	AA072843
39203	tggcatcgcgcttatccattttcaa	AA013830	81807	tgcattgttttctgccagtggatat	D90225	124411	gggcctcagccacatctggcagaaa	AA072843
39204	catcgcgcttatccattttcaaaga	AA013830	81808	cattgttttctgccagtggatattt	D90225	124412	ggcctcagccacatctggcagaaat	AA072843
39205	gcttatccattttcaaagaggcaat	AA013830	81809	aaagtttgcagactgagaggagaga	D90225	124413	gcctcagccacatctggcagaaata	AA072843
39206	gttcaacttccacttcacaaacatt	AA013830	81810	aacatgaaatcctttcactttggca	D90225	124414	cctcagccacatctggcagaaatac	AA072843
39207	caacttccacttcacaaacatttct	AA013830	81811	catgaaatcctttcactttggcaga	D90225	124415	ctcagccacatctggcagaaataca	AA072843
39208	ccacttcacaaacatttcttcggtg	AA013830	81812	atgaaatcctttcactttggcagaa	D90225	124416	tcagccacatctggcagaaatacac	AA072843
39209	ttactggtccagaactctggtagca	AA020088	81813	tcctttcactttggcagaaaaacat	D90225	124417	cagccacatctggcagaaatacacg	AA072843
39210	gtgttctggcccacgcacagctctc	AA020088	81814	acatgttttctcttgtgcatcaatt	D90225	124418	ctccaccaaaggagaatgcgtgggt	AA072843
39211	ttgttcatgagcgcctcgcagccct	AA020088	81815	gttttctcttgtgcatcaatttaaa	D90225	124419	gagacacccaagctggcgaagtgaa	AA072843
39212	ttcatgagcgcctcgcagccctggc	AA020088	81816	acaaccatgtaaactcttctcttg	D90225	124420	agacacccaagctggcgaagtgaag	AA072843
39213	tacgcctgcgtccagtacggtgcac	AA020088	81817	caaccatgtaaactcttctcttgt	D90225	124421	gacacccaagctggcgaagtgaaga	AA072843
39214	gcctgcgtccagtacggtgcacaca	AA020088	81818	ccatgtaaactcttctcttgttag	D90225	124422	acacccaagctggcgaagtgaagaa	AA072843
39215	tgcgtccagtacggtgcacacaggc	AA020088	81819	aaactcttctcttgttagatagat	D90225	124423	atcgcagactggggcctcagccaca	AA072843
39216	cacaggcgcgtacatggagcacagg	AA020088	81820	actcttctcttgttagatagattt	D90225	124424	ctggggcctcagccacatctggcag	AA072843
39217	gagctcggcgtacgactgcaccttc	AA020088	81821	acttctcttgttagatagattttca	D90225	124425	tggggcctcagccacatctggcaga	AA072843
39218	ggcgtacgactgcaccttcaccaga	AA020088	81822	gagagaccaagccgctcagccgttt	Z32815	124426	ggggcctcagccacatctggcagaa	AA072843
39219	gtacgactgcaccttcaccagaggg	AA020088	81823	agaccaagccgctcagccgtttgta	Z32815	124427	aagtcagaggctcctgactactacg	W71881
39220	cgactgcaccttcaccagagggtag	AA020088	81824	aattttgagactagccctgctctct	Z32815	124428	gaggctcctgactactacgaggtta	W71881
39221	gcgccgtgcaccgggaacttctcgc	AA020088	81825	tttgagactagccctgctctcttca	Z32815	124429	tatgtgacccggaagctcttcgtag	W71881
39222	ctgcaccttcaccagagggtagaac	AA020088	81826	agccctgctctcttcatttcctaca	Z32815	124430	gtagctgacctgcagcgggtcatcg	W71881
39223	ccgtgcaccgggaacttctcgcact	AA020088	81827	ttcatttcctacaaccacaccacaa	Z32815	124431	atcgccaactgccgggagtacaatc	W71881
39224	accgggaacttctcgcacttgagtg	AA020088	81828	cattatcactactgggagttaaggt	Z32815	124432	gagtacaatcccccagacagcgaat	W71881
39225	gggaacttctcgcacttgagtgtgt	AA020088	81829	tttctttagattcctggcatgacaa	Z32815	124433	cccccagacagcgaatactgtcgct	W71881
39226	aacttctcgcacttgagtgtgtctg	AA020088	81830	ctttagattcctggcatgacaatta	Z32815	124434	gacagcgaatactgtcgctgcgcca	W71881
39227	tcgcacttgagtgtgtctggccact	AA020088	81831	attcctggcatgacaattaataggt	Z32815	124435	gaatactgtcgctgcgccagtgccc	W71881
39228	tctggccactggaagccgaacttgt	AA020088	81832	taacctaatgttgtagggctgagga	Z32815	124436	gccagtgccctggagaagttcttct	W71881
39229	aagccgaacttgttcatgagcgcct	AA020088	81833	tagtctccatagtatgtgtaacctg	Z32815	124437	gagaagttcttctacttcaagctca	W71881
39230	ctttactgtcttaataactggatga	Z37110	81834	ccaagccgctcagccgtttgtagaa	Z32815	124438	aagttcttctacttcaagctcaaag	W71881
39231	aattatcactctgaaaatgtattta	Z37110	81835	agaagcctttctacttcctgcagaa	Z32815	124439	gctcctgactactacgaggttatcc	W71881
39232	gtatgatccacactgttaaaacata	Z37110	81836	agcctttctacttcctgcagaagtc	Z32815	124440	ttccccattgacctgaagaccatga	W71881
39233	tccacactgttaaaacataggcagc	Z37110	81837	tcctgcagaagtctgagatgctaag	Z32815	124441	attgacctgaagaccatgacagaac	W71881
39234	aggcagcagctcagggccctggaca	Z37110	81838	tgctaaggctccgttaagttcacac	Z32815	124442	gacctgaagaccatgacagaacggt	W71881
39235	agggccctggacagcctgagtcaac	Z37110	81839	taaggctccgttaagttcacaccag	Z32815	124443	atgacagaacggttgcgcagtcgct	W71881
39236	agtcaacctagagtagctggaacca	Z37110	81840	ggctccgttaagttcacaccagcca	Z32815	124444	cggttgcgcagtcgctactatgtga	W71881

TABLE 1

SEQ ID NO	sequence	DBAxnID
39237	aattatccattgagaagctgaacaa	Z37110
39238	accacgttacactgagaacacttca	Z37110
39239	ttacactgagaacacttcagttctt	Z37110
39240	caactaccattatgttttgaataca	Z37110
39241	gaatacacctttcaataaaatgatt	Z37110
39242	tgataaaacactccagacattttta	Z37110
39243	ccagacatttttactacagactgtt	Z37110
39244	actacagactgtttctataaaactg	Z37110
39245	gccattgcttctaatggagaatttt	Z37110
39246	attgctgagtctatctgcaaaacct	Z37110
39247	atctgcaaaaccttttctctaagtct	Z37110
39248	agccgttgtgctcagagtctccatg	Z37110
39249	ctccatgctggcttgaatgtatgat	Z37110
39250	cgtgtcgtcctcaggaactccccat	AA013851
39251	gtcgtcctcaggaactccccataag	AA013851
39252	gcgtgtcccgagatcaagatccaac	AA013851
39253	tgtcccgagatcaagatccaactgg	AA013851
39254	atccaactggaaacatctgagcagc	AA013851
39255	ccccagatgggctgctagctgtcac	AA013851
39256	ggctgctagctgtcacctcatcagc	AA013851
39257	tgctagctgtcacctcatcagcagg	AA013851
39258	tagctgtcacctcatcagcaggcgg	AA013851
39259	tcacctcatcagcaggcgggactga	AA013851
39260	catcagcaggcgggactgagcagag	AA013851
39261	aggcctcagaagcacaagaagatgc	AA013851
39262	gtcctcaggaactccccataagcgg	AA013851
39263	ctccttcctctacagcacatggctg	AA013851
39264	cttcctctacagcacatggctggac	AA013851
39265	cctctacagcacatggctggacgac	AA013851
39266	ctacagcacatggctggacgacagc	AA013851
39267	cagcacatggctggacgacagcgtg	AA013851
39268	cacatggctggacgacagcgtgaca	AA013851
39269	atggctggacgacagcgtgacacca	AA013851
39270	atgatgtcgccatcttggatgcctc	AA013893
39271	gaattgggaaccacctcttgaacat	AA013893
39272	aaacttggcgtgatggtccgcatcc	AA013893
39273	cttggcgtgatggtccgcatccgga	AA013893
39274	gtccgcatccggatgccaatgaagc	AA013893
39275	cgcatccggatgccaatgaagcgct	AA013893
39276	ccaatgaagcgcttcttccagtctt	AA013893
39277	aagcgcttcttccagtctttcacat	AA013893
39278	cgcttcttccagtctttcacatgct	AA013893
39279	cagtctttcacatgcttgttttgga	AA013893
39280	tctttcacatgcttgttttggaact	AA013893
39281	ttcacatgcttgttttggaactcag	AA013893
39282	accacctcttgaacatatattccac	AA013893
39283	acctcttgaacatatattccactgc	AA013893
39284	acatatattccactgctgaccgctg	AA013893
39285	tatattccactgctgaccgctggaa	AA013893
39286	attccactgctgaccgctggaaagt	AA013893
39287	ctgaccgctggaaagtctgggttgg	AA013893
39288	tctgggttggcggccttcagttcct	AA013893
39289	tccaccaaacttggcgtgatggtcc	AA013893
39290	tatttcatcaaagactccatgggtt	L49502
39291	tgtatatttactaacttccaagaga	L49502
39292	ctccggtaggcagcatgctgctatg	L49502
39293	taggcagcatgctgctatgtacaaa	L49502
39294	tgctgctatgtacaaacttgtacca	L49502
39295	caaacttgtaccaaatgttgcagaa	L49502
39296	acttgtaccaaatgttgcagaagca	L49502
39297	tgagttttatctccagaggaagaga	L49502
39298	ttatctccagaggaagagatgtccc	L49502
39299	gagatgtccctgtactgaactctgt	L49502
39300	gtgctttcctggtgtcagagtgggc	L49502
39301	ctttcctggtgtcagagtgggctcg	L49502
39302	atatttactaacttccaagagacat	L49502
39303	agtccagtgtcccaagctggagcag	L49502
39304	gtgtcccaagctggagcagtgagac	L49502

SEQ ID NO	sequence	DBAxnID
81841	gttaagttcacaccagccaaactct	Z32815
81842	ctgtaccaacactagaaagtgccca	X85788
81843	tagaaagtgcccagtatccaggaat	X85788
81844	ccacagcctgtgtgcggccaactca	X85788
81845	tccgcagctttgctaacccattact	X85788
81846	caccgcttttgtctcagccaggacc	X85788
81847	ccgtgtctgtgccaacagcccctga	X85788
81848	agagccacaagcccacagaggatcc	X85788
81849	ccacagaggatccagccagtgtata	X85788
81850	aggatccagccagtgtatatgaaca	X85788
81851	tgaagcaactcaacgccatcacagg	X85788
81852	aactcaacgccatcacaggctcagc	X85788
81853	acgccatcacaggctcagcctttta	X85788
81854	catctcccacatgtggatacccgca	X85788
81855	cgccatcacaggctcagccttttaa	X85788
81856	ccacatgtggatacccgcatccaca	X85788
81857	atccacagttcactctccggccagt	X85788
81858	taccattcccaacgctgtctgtgga	X85788
81859	tcccaacgctgtctgtggaccgagg	X85788
81860	gtgaaggaccaaccacgcaacagca	X85788
81861	ctcagcccgaacatccgagcagtga	X85788
81862	ccgaacatccgagcagtgaagaagc	X85788
81863	ctgtcccatgaggtgctcaacccta	AA103176
81864	tcccatgaggtgctcaaccctatgt	AA103176
81865	agattcatcgccatggctctgtacc	AA103176
81866	ttcatcgccatggctctgtaccatg	AA103176
81867	gctctgtaccatgggaagttcatcg	AA103176
81868	aagttcatcgacacaggcttcactc	AA103176
81869	ctccctttctacaagcggatgtcaa	AA103176
81870	ttctacaagcggatgtcaacaagag	AA103176
81871	tcaacaagagaccgactctgaagga	AA103176
81872	acaagagaccgactctgaaggacct	AA103176
81873	gaccgactctgaaggacctggagtc	AA103176
81874	tggagtctattgaccctgagtttta	AA103176
81875	gaggtgctcaaccctatgtactgtt	AA103176
81876	gtgctcaaccctatgtactgtttgt	AA103176
81877	ctcaaccctatgtactgtttgtttg	AA103176
81878	cctatgtactgtttgtttgaatatg	AA103176
81879	ctcacctacttccgctttatcggca	AA103176
81880	acctacttccgctttatcggcagat	AA103176
81881	tacttccgctttatcggcagattca	AA103176
81882	cgctttatcggcagattcatcgcca	AA103176
81883	tctaccagggctacacaagtcccta	X99291
81884	agggctacacaagtccctatcagca	X99291
81885	gctaccagtcctggacgctggccaa	X99291
81886	agtcctggacgctggccaacgggtg	X99291
81887	ggaacagccaggtgtactgtgccaa	X99291
81888	gtgccaaggatcagccacagggttc	X99291
81889	ctttaaaccagccggacatgtgcgt	X99291
81890	gggtgccttacaccaaactgcagct	X99291
81891	ccaaactgcagctcaaagaactgga	X99291
81892	ggatctcagctgccacgaacctttc	X99291
81893	taaccatttggtttcagaatcgaag	X99291
81894	tcgtctccaagctcaaagacactgt	X99291
81895	atcagcacgtgcctggctacatcga	X99291
81896	caagctcaaagacactgtctcctga	X99291
81897	acgtgcctggctacatcgacatggt	X99291
81898	ctggctacatcgacatggtgtccac	X99291
81899	acatggtgtccacttttggatccgg	X99291
81900	ctcggcacgaggcatacatctccat	X99291
81901	acgaggcatacatctccatggaggg	X99291
81902	catacatctccatggagggctacca	X99291
81903	tctccatggagggctaccagtcctg	X99291
81904	ggccatcgtttgtggacgtttggag	X13335
81905	actgctcctataaatgtgttccttc	X13335
81906	atcaagtctgtctgtctctgggtgg	X13335
81907	cttctgcactggccctcacacagtg	X13335
81908	cacagtgacctctctccaaggcaca	X13335

SEQ ID NO	sequence	DBAxnID
124445	ttgcgcagtcgctactatgtgaccc	W71881
124446	cgcagtcgctactatgtgacccgga	W71881
124447	actcaaatacaatctactgctctgt	M84412
124448	atacaatctactgctctgtgcagaa	M84412
124449	ttaccccatgagcccattcacaggt	M84412
124450	catgagcccattcacaggtcaggca	M84412
124451	cccattcacaggtcaggcagagtct	M84412
124452	agagtctccttggagcctacaggct	M84412
124453	tccttggagcctacaggctttgaac	M84412
124454	gagcctacaggctttgaacaccctg	M84412
124455	acaggctttgaacaccctgcctttg	M84412
124456	tttgaacaccctgcctttggatctc	M84412
124457	cttatctggacggccttgtctgcct	M84412
124458	gatgcacttagtcctgttgggactg	M84412
124459	tctactgctctgtgcagaagcctaa	M84412
124460	cggcacaaacaccacagcaagatgc	M84412
124461	aagatgctgagtctcctgaaagccc	M84412
124462	acatcataaatcctcctgtttctgc	M84412
124463	ctcctgtttctgcagaaagaacaca	M84412
124464	gaacacatcagaattccctgccatg	M84412
124465	atcagaattccctgccatggcttag	M84412
124466	attccctgccatggcttagactagc	M84412
124467	ggacaatagacaaccagctgttctt	M68903
124468	accagctgttcttcttcctggtgga	M68903
124469	agcaactcaactggaagcaggacaa	M68903
124470	ctctctacaaaagtgcgatcacaac	M68903
124471	gtgcgatcacaaccactgtcaaccc	M68903
124472	ggattcttgtcttggaggacagtgg	M68903
124473	ttgtcttggaggacagtggagatag	M68903
124474	atgctgccaccgctgagatttttca	M68903
124475	ccaccgctgagatttttcagagtga	M68903
124476	agagtgaccttcagagggcagcagc	M68903
124477	accttcagagggcagcagccattcc	M68903
124478	gggctggtccttccataataaagct	M68903
124479	tgttcttcttcctggtggagcatgc	M68903
124480	cagccagcgggatcgtactgagagt	M68903
124481	gagtggatcacacccgtgccatcat	M68903
124482	ccatcatactgggctgcacaggggg	M68903
124483	tactgggctgcacaggggcatcgt	M68903
124484	tggttctggcttaccggctctctgt	M68903
124485	accggctctctgtggaaatctacga	M68903
124486	tctacgaccgacgggagtacaggcg	M68903
124487	tgctcactctgctggagcgctgtgc	M57696
124488	cacacagagggaccactgctgaact	M57696
124489	atgagaccttccaagaatacaaagc	M57696
124490	ccttccaagaatacaaagcatttct	M57696
124491	tctcattgcctcaaatgacttgaac	M57696
124492	tgcctcaaatgacttgaacatttta	M57696
124493	cttgtgactcggaatgctttctaaa	M57696
124494	agcctctggtgaccagagcagtttt	M57696
124495	tgttacctgagttgcccactgtcaa	M57696
124496	ctgagttgcccactgtcaacgctga	M57696
124497	ctgtcaacgctgattggaaactgct	M57696
124498	tgccccttcacttatgctactgtg	M57696
124499	ctgaactggagccctttggagctac	M57696
124500	tggagcccttggagctacaccact	M57696
124501	cctttggagctacaccactgcccag	M57696
124502	gctttcctgatggtgtcctttggga	M57696
124503	ctgatggtgtcctttgggagaaatg	M57696
124504	gtaaacatccatctaatctgtcagg	M57696
124505	atccatctaatctgtcaggacttta	M57696
124506	ctaatctgtcaggactttatgagac	M57696
124507	ttatttacattatgcacaggtttag	AA168666
124508	atttacattatgcacaggtttaggg	AA168666
124509	ctgtctttggcaaggactgtagtgt	AA168666
124510	gtctttggcaaggactgtagtgtct	AA168666
124511	ctttggcaaggactgtagtgtctcc	AA168666
124512	gactgtagtgtctcctgcagcttgg	AA168666

TABLE 1

SEQ ID NO	sequence	DBAxnID
39305	ctcctgcattgtggtgcagctccac	L49502
39306	ctgcattgtggtgcagctccacctg	L49502
39307	ggtgcagctccacctgccatatgtg	L49502
39308	ccaaggcttgcaagccaggctagcc	L49502
39309	aggcttgcaagccaggctagcccct	L49502
39310	gctctcacaggaagcctgcaagtct	L36062
39311	tgtccatcttcagctaacagcatcg	L36062
39312	ttaccagctccaaatgtcactacct	L36062
39313	gctccaaatgtcactacctgaaggc	L36062
39314	actacctgaaggcagtgtgcacaca	L36062
39315	gcacacaaagcaaggtcttgcctag	L36062
39316	ctcctctgtaaaaggccagaacttg	L36062
39317	tccaacttttctctgaggagaaatg	L36062
39318	atcattgtgccgacttccctactaa	L36062
39319	gtgccgacttccctactaatcccat	L36062
39320	acttccctactaatcccatgacaat	L36062
39321	ctactaatcccatgacaataaagaa	L36062
39322	gagacactaggactgactggtaaaa	L36062
39323	aaagttctctagtgtctcccactgc	L36062
39324	tgtctcccactgcatagctgtgaag	L36062
39325	ccactgcatagctgtgaaggctaag	L36062
39326	tatgaaacctttcatctaggcttgt	L36062
39327	acctttcatctaggcttgtatatgc	L36062
39328	ctgacctaaaagacaccagcagcta	L36062
39329	gttgtcttaccagctccaaatgtca	L36062
39330	ctggctcttcaaagcctgtgcgctc	AA013920
39331	gctcttcaaagcctgtgcgctcatt	AA013920
39332	ctgaatcagcaaccttgccggtctc	AA013920
39333	aatcagcaaccttgccggtctcact	AA013920
39334	cagcaaccttgccggtctcactagt	AA013920
39335	caaccttgccggtctcactagtgtc	AA013920
39336	ccttgccggtctcactagtgtcatg	AA013920
39337	tgccggtctcactagtgtcatgggc	AA013920
39338	cggtctcactagtgtcatgggctgc	AA013920
39339	tctcactagtgtcatgggctgcagt	AA013920
39340	cactagtgtcatgggctgcagttta	AA013920
39341	tagtgtcatgggctgcagtttacgg	AA013920
39342	cttcaaagcctgtgcgctcattctc	AA013920
39343	caaagcctgtgcgctcattctctgg	AA013920
39344	ctgtgcgctcattctctggtctgtg	AA013920
39345	ctggtctgtggtgcgatctaatcgg	AA013920
39346	gcgatctaatcggggcgaagattct	AA013920
39347	atctaatcggggcgaagattctggc	AA013920
39348	agattctggcgagttgaggcaggtc	AA013920
39349	ggtctgaatcagcaaccttgccggt	AA013920
39350	agtttcacctggactacctagtgca	U25416
39351	acctggactacctagtgcagacctt	U25416
39352	ctcctccagctgtagagacttgtgc	U25416
39353	tatccacggaacacaccaataacag	U25416
39354	tctacatcatgaaggccgacacagt	U25416
39355	tcatgaaggccgacacagtgatcgt	U25416
39356	acacagtgatcgtgggctctgtaaa	U25416
39357	tgatcgtgggctctgtaaaaactga	U25416
39358	ctccagcagggtctacagagtctga	U25416
39359	aggagacagaaccacctctgggcag	U25416
39360	cagaaccacctctgggcagctgcac	U25416
39361	ccacgactgtctctgagaagtgaca	U25416
39362	actacctagtgcagaccttccagcc	U25416
39363	agaccttccagcccaagatggagca	U25416
39364	tccagcccaagatggagcagacaga	U25416
39365	ctgaaaagctaacccagccacagag	U25416
39366	agctaacccagccacagagaagcgg	U25416
39367	tgacagatcccagcacgggacacaa	U25416
39368	atcccagcacgggacacaagttgag	U25416
39369	gacacaagttgagcccagtgagccc	U25416
39370	ccttgtagcagttgttgttgaagcg	AA013951
39371	gattgtagctgcctagggctgtgag	AA013951
39372	ctttgaccagtcaggcttgagatag	AA013951

SEQ ID NO	sequence	DBAxnID
81909	gacctctctccaaggcacagttcct	X13335
81910	aggcacagttcctgtatctacatcc	X13335
81911	tgtatctacatcccactcgtgtatg	X13335
81912	tacatcccactcgtgtatgagactt	X13335
81913	agttgccgtcatctccggattgaaa	X13335
81914	cgtcatctccggattgaaacagatt	X13335
81915	ctaaacactattcactaataaagat	X13335
81916	ggctggacctgcacacgctgttcct	X13335
81917	gctcttgctgtccagatgccctcat	X13335
81918	cagatgccctcatgaaccagtggcc	X13335
81919	ctggccttggccagcttagaccata	X13335
81920	ttggccagcttagaccatacatcag	X13335
81921	agcttagaccatacatcagcgtatg	X13335
81922	gaccatacatcagcgtatgctagtt	X13335
81923	taccctgcagtgggcgtgatcaagt	X13335
81924	ctgtagacacacatcgtgacaagcc	X98847
81925	acacacatcgtgacaagccaactca	X98847
81926	gtgtttcctccagctttggcctctt	X98847
81927	tgcccttgccactaatcaaccaaga	X98847
81928	tgccactaatcaaccaagaagtcat	X98847
81929	taatcaaccaagaagtcatttaact	X98847
81930	agaatctgagctcatgcgtgtgcag	X98847
81931	gagcagcctcagccattctctaggt	X98847
81932	cctcagccattctctaggtaaacac	X98847
81933	tctttagacatgtccccagatggga	X98847
81934	gttcttctgtttcctgatgtctgac	X98847
81935	cctgatgtctgaccccagtctgtga	X98847
81936	atcgtgacaagccaactcacaactt	X98847
81937	agagccaaacccctgtaaggatgag	X98847
81938	acagctttacgcctctgtccagttc	X98847
81939	ctctgtccagttcgaacacaataag	X98847
81940	agcctctccgtgctctggacatgca	X98847
81941	tccgtgctctggacatgcaagaagg	X98847
81942	accagccgaagacccaagtcagcat	X98847
81943	cgaagacccaagtcagcattccggt	X98847
81944	tcaagtgtcctctgcatacagtgct	X98848
81945	gtcctctgcatacagtgctcaaact	X98848
81946	attgtctctgttctcactaccttcc	X98848
81947	tctgttctcactaccttcctcctgt	X98848
81948	ctcctgtaggaactgctggccttgt	X98848
81949	taggaactgctggccttgttctcct	X98848
81950	ttctccttaagcagactctggcttt	X98848
81951	agactctggctttggcctgagtgtg	X98848
81952	gagtgtgccctacctccagagaata	X98848
81953	gtagcagctcccaaacaggtctcaa	X98848
81954	gtctcaattcctagccataactaag	X98848
81955	gacatttattcctgcctgtaggaca	X98848
81956	tgcatacagtgctcaaactcacacc	X98848
81957	cagtgctcaaactcacacctgtggc	X98848
81958	tcacacctgtggcttatggctgcag	X98848
81959	agtccatctacctgaatgtggaggc	X98848
81960	tctacctgaatgtggaggctgtgaa	X98848
81961	aggaagccttggacactgtacctgc	X98848
81962	actgagccctttttcaagtgatcaga	X98848
81963	gatcagattgtctctgttctcacta	X98848
81964	ggtgactgcccatagtcctaatact	AA103285
81965	gtgactgcccatagtcctaatactt	AA103285
81966	ataccctgtgttcagacaaagggag	AA103285
81967	ccctgtgttcagacaaagggagcaa	AA103285
81968	cccacatcttgttgatagccctatc	AA103285
81969	ccacatcttgttgatagccctatcc	AA103285
81970	acatcttgttgatagccctatcctg	AA103285
81971	tcttgttgatagccctatcctgtgc	AA103285
81972	gttgatagccctatcctgtgcctag	AA103285
81973	atcctgtgcctagggatttccttcg	AA103285
81974	cctgtgcctagggatttccttcgtg	AA103285
81975	tgcctagggatttccttcgtgccca	AA103285
81976	gactgcccatagtcctaatacttgg	AA103285

SEQ ID NO	sequence	DBAxnID
124513	ctgtagtgtctcctgcagcttggtg	AA168666
124514	actttagggacttgatgctggacac	AA168666
124515	tgatgctggacacggagcagaaacg	AA168666
124516	atgctggacacggagcagaaacgct	AA168666
124517	gagcagaaacgcttcttcaggaacg	AA168666
124518	gcagaaacgcttcttcaggaacgtt	AA168666
124519	ttacattatgcacaggtttagggac	AA168666
124520	attatgcacaggtttagggaccgca	AA168666
124521	gtggatcttatcacctgtcctagat	AA168666
124522	ggatcttatcacctgtcctagatcg	AA168666
124523	tcacctgtcctagatcgaaggtacc	AA168666
124524	tcgaaggtacctgtctttggcaagg	AA168666
124525	aggtacctgtctttggcaaggactg	AA168666
124526	gtacctgtctttggcaaggactgta	AA168666
124527	gccaacacaatgatcaccacacaga	M21050
124528	atcaccacacagacacctctgtagg	M21050
124529	ttatcagggaacccgtgacctgtct	M21050
124530	tttcttagagctgccccttttcatct	M21050
124531	agagctgccccttttcatcttgctta	M21050
124532	taaattctcagctcatgtgtcagtc	M21050
124533	ctcagctcatgtgtcagtctgttta	M21050
124534	tcatgtgtcagtctgtttaaccctt	M21050
124535	ctgtcctgatctttcttaagttcct	M21050
124536	ttcttaagttccttcattcacacta	M21050
124537	ttcattcacactaactctgagacag	M21050
124538	cacactaactctgagacagatgagc	M21050
124539	acacagacacctctgtaggtcagtt	M21050
124540	acacctctgtaggtcagttcttcag	M21050
124541	tcttcagccaggaagtgattcacat	M21050
124542	ttcacattgagttccattggaattc	M21050
124543	catcttaatcagacctgtgtgaata	M21050
124544	cacccagttagaacagcctctgtgg	M21050
124545	ggtttctgagggcacaggagtctca	M21050
124546	ttgtctgaactcagaaacttatcag	M21050
124547	tgaattctctttgacacaaagcata	Y00157
124548	ctctttgacacaaagcatacttgta	Y00157
124549	atagcatgcttgtgcctcaaactgc	Y00157
124550	tgcttgtgcctcaaactgcaaggaa	Y00157
124551	tgcctcaaactgcaaggaagcaagt	Y00157
124552	gaatctgtgatctgctcagctctgg	Y00157
124553	gaactgcctttagcggtgcacctgg	Y00157
124554	cctttagcggtgcacctggacatca	Y00157
124555	cacctggacatcagagccccttgta	Y00157
124556	gacatcagagccccttgtaagaact	Y00157
124557	attgctggcagtctagtggagcgta	Y00157
124558	ctctgtcactgaaggctgtagtaga	Y00157
124559	cagcacccacttgatataaatctcc	Y00157
124560	aatctcctgtctgcccatcatatag	Y00157
124561	ctgtctgcccatcatatagaagaag	Y00157
124562	caggatctgtagacccggagagaac	Y00157
124563	gaaccctcactgactggtgcaggga	Y00157
124564	tcactgactggtgcagggatctcac	Y00157
124565	tcccctgagctctctgtttaggtat	Y00157
124566	gagctctctgtttaggtatgtgtct	Y00157
124567	gcatggctcagaaccccagcaacat	W81960
124568	agaaccccagcaacatggagcccttt	W81960
124569	atgatgtgctcatcagcacgtaccc	W81960
124570	atgtgctcatcagcacgtacccaaa	W81960
124571	tgctcatcagcacgtacccaaagtc	W81960
124572	tcagcacgtacccaaagtctggtac	W81960
124573	agtctggtactacctggatgagtga	W81960
124574	ctggtactacctggatgagtgagat	W81960
124575	atatgatctatcagggtggcaagct	W81960
124576	tgatctatcagggtggcaagctaga	W81960
124577	tctatcagggtggcaagctagataa	W81960
124578	tctatgcccggataccttccttga	W81960
124579	accccagcaacatggagcccttgcg	W81960
124580	taccctccttgagttcagctgccc	W81960

TABLE 1

SEQ ID NO	sequence	DBAxnID
39373	tgaccagtcaggcttgagatagtag	AA013951
39374	gtagatgataccatccagggctcca	AA013951
39375	gatgataccatccagggctccaggc	AA013951
39376	tcgcaccagcagcacaacgaggacc	AA013951
39377	caccagcagcacaacgaggaccacg	AA013951
39378	cagcacaacgaggaccacgtagggg	AA013951
39379	gaagtacacgatctttcctgttgac	AA013951
39380	gtacacgatctttcctgttgacttg	AA013951
39381	cacgatctttcctgttgacttgacc	AA013951
39382	gggcccccaggctagtggataagag	AA013951
39383	cccccaggctagtggataagagaag	AA013951
39384	aatctgggtcccagcatctatccat	AA013951
39385	cccagcatctatccatacctgaggg	AA013951
39386	agcatctatccatacctgaggggac	AA013951
39387	tatccatacctgaggggaccctagc	AA013951
39388	ggaccctagctttgaccagtcaggc	AA013951
39389	ccctagctttgaccagtcaggcttg	AA013951
39390	taaagttgtccttattggagattct	AA119078
39391	aaagttgtccttattggagattctg	AA119078
39392	tcctgtctcgatttactcgaaatga	AA119078
39393	cctgtctcgatttactcgaaatgag	AA119078
39394	ctgtctcgatttactcgaaatgagt	AA119078
39395	agaagcatccaggttgatgggaaaa	AA119078
39396	gaagcatccaggttgatgggaaaac	AA119078
39397	aagcatccaggttgatgggaaaaca	AA119078
39398	agcatccaggttgatgggaaaacaa	AA119078
39399	aagttgtccttattggagattctgg	AA119078
39400	tgtccttattggagattctggtgtt	AA119078
39401	gtccttattggagattctggtgttg	AA119078
39402	gaaagagtaacctcctgtctcgatt	AA119078
39403	gagtaacctcctgtctcgatttact	AA119078
39404	gtaacctcctgtctcgatttactcg	AA119078
39405	taacctcctgtctcgatttactcga	AA119078
39406	cctcctgtctcgatttactcgaaat	AA119078
39407	atcacccggtggaaatttagctctg	
39408	tcacccggtggaaatttagctctgt	
39409	ctgtctttcaattttgaaactcata	
39410	tgtctttcaattttgaaactcatag	
39411	aattttgaaactcataggagatata	
39412	attttgaaactcataggagatatag	
39413	ttttgaaactcataggagatataga	
39414	taatagttgcagtgttgacgataaa	
39415	aatagttgcagtgttgacgataaag	
39416	atagttgcagtgttgacgataaaga	
39417	tagttgcagtgttgacgataaagat	
39418	tagtgaaaccaatactattttagat	
39419	ggaaatttagctctgtctttcaatt	
39420	gaaatttagctctgtctttcaattt	
39421	ttagctctgtctttcaattttgaaa	
39422	tagctctgtctttcaattttgaaac	
39423	agctctgtctttcaattttgaaact	
39424	gctctgtctttcaattttgaaactc	
39425	ctctgtctttcaattttgaaactca	
39426	tctgtctttcaattttgaaactcat	
39427	aaccgtggctgtgaggctgctgcag	AA013973
39428	ggtggaccagcacacagtgaccttg	AA013973
39429	tggtcacactgtgatcctgcatgcc	AA013973
39430	tcacactgtgatcctgcatgcccag	AA013973
39431	tgtgatcctgcatgcccagcctggg	AA013973
39432	gacttgtggtctctgtgggaacttc	AA013973
39433	ttgtggtctctgtgggaacttcaat	AA013973
39434	tctctgtgggaacttcaatggcttt	AA013973
39435	gaacttcaatggctttgccaggatg	AA013973
39436	ctttgccaggatgatctgcagggtc	AA013973
39437	tgccaggatgatctgcagggtccgg	AA013973
39438	ctgcccacagaggcttcgtttggga	AA013973
39439	ggaccagcacacagtgaccttgccc	AA013973
39440	cctccgggagccactgctgtacatt	AA013973
81977	gcccatagtcctaatacttgggagg	AA103285
81978	ggaaccaatcattggctacataatg	AA103285
81979	gaaccaatcattggctacataatga	AA103285
81980	accaatcattggctacataatgagt	AA103285
81981	ccaatcattggctacataatgagtt	AA103285
81982	atcattggctacataatgagttaaa	AA103285
81983	taaatacccgtgtgttcagacaaagg	AA103285
81984	ttctctagctctgccctttgtagca	X64550
81985	agctctgccctttgtagcacacaag	X64550
81986	tctttgctgtaactaggcttcacca	X64550
81987	ctgtaactaggcttcaccaatagcc	X64550
81988	ctctcataggctctcttcatggtgc	X64550
81989	taggctctcttcatggtgccaagcc	X64550
81990	atggtgccaagcctcaaatcctttg	X64550
81991	ccaagcctcaaatcctttgaatgac	X64550
81992	ccccttcagtcttgggccatcaact	X64550
81993	cagtcttgggccatcaactgctact	X64550
81994	tgggccatcaactgctactgaggct	X64550
81995	atcaactgctactgaggctgcactt	X64550
81996	acacaagttgtcttctaggctccag	X64550
81997	gatgcctgtactccactgctgctgc	X64550
81998	tgtactccactgctgctgctgttct	X64550
81999	ctgctgctgttcttggtactcattt	X64550
82000	ctcatttatggtactggcatctcca	X64550
82001	tatggtactggcatctccaaaacac	X64550
82002	actggcatctccaaaacactgttgt	X64550
82003	ctgttgtctttgctgtaactaggct	X64550
82004	tcccagttacatcccagaccgtgtg	U07950
82005	ttacatcccagaccgtgtgcaaaag	U07950
82006	cagcaccactgtagagactgcagaa	U07950
82007	ggaacccattgaccagaagtttgtg	U07950
82008	tgagcccattgatgatggttcagag	U07950
82009	ctgttcctgctcctatgatgctacc	U07950
82010	ctgctcctatgatgctaccacacac	U07950
82011	tatctacaaacgcatggctggttct	U07950
82012	caaacgcatggctggttctgccttt	U07950
82013	catggctggttctgcctttgatttt	U07950
82014	tggttctgcctttgattttgagaac	U07950
82015	ccaacttgtatgtccttctctaggg	U07950
82016	ccaggttattcgcatcatctgtatc	U07950
82017	tattcgcatcatctgtatcctcagc	U07950
82018	caatgatgccaattcctgccaaatt	U07950
82019	tgccaattcctgccaaattatcatc	U07950
82020	ttcctgccaaattatcatccctcag	U07950
82021	ccaaattatcatccctcagaaccag	U07950
82022	ccctcagaaccaggtcaacaggaag	U07950
82023	cattgccagcaccactgtagagact	U07950
82024	catcaaaaacaccaatgacgccaac	U07951
82025	ctctgcacacaatgtggccgcacaa	U07951
82026	ttatatcccgtacctatgatgcaac	U07951
82027	tatatcccgtacctatgatgcaaca	U07951
82028	atatcccgtacctatgatgcaacaa	U07951
82029	cgtacctatgatgcaacaactcact	U07951
82030	tgatgcaacaactcactttgagacg	U07951
82031	gatgcaacaactcactttgagacga	U07951
82032	atgcaacaactcactttgagacgac	U07951
82033	tgcaacaactcactttgagacgacc	U07951
82034	acatgttatcatctaattaggacaa	U07951
82035	catgttatcatctaattaggacaaa	U07951
82036	ctgcacacaatgtggccgcacaagg	U07951
82037	tgccagcacaacggtggagaccaag	U07951
82038	aaggaaatcagaccagccctggagc	U07951
82039	ggaaatcagaccagccctggagctt	U07951
82040	gaaatcagaccagccctggagcttt	U07951
82041	atcagaccagccctggagcttttgg	U07951
82042	tcagaccagccctggagcttttgga	U07951
82043	ctttatatcccgtacctatgatgca	U07951
82044	aactccctctggctttgctatgctc	AA103353
124581	gcaacatggagcccttgcgtaaacc	W81960
124582	ccttgcgtaaaccactggtgcctgt	W81960
124583	tgcgtaaaccactggtgcctgtgaa	W81960
124584	gaatcccactcatcaaatactttgc	W81960
124585	tcatcaaatactttgcggagacaat	W81960
124586	agcaactgcagaacttcacagcctg	W81960
124587	agaacttcacagcctggcctgatga	W81960
124588	ctgcttgttcaccatcagcctagac	W37011
124589	tgcttgttcaccatcagcctagacg	W37011
124590	tcagcctagacgaccacactctagg	W37011
124591	cagcctagacgaccacactctaggg	W37011
124592	agcctagacgaccacactctaggga	W37011
124593	gcctagacgaccacactctagggaa	W37011
124594	ctagacgaccacactctagggaaca	W37011
124595	ctgttaaaaggcccgcatgtgttgt	W37011
124596	tgttaaaaggcccgcatgtgttgtt	W37011
124597	gcttgttcaccatcagcctagacga	W37011
124598	cttgttcaccatcagcctagacgac	W37011
124599	ttgttcaccatcagcctagacgacc	W37011
124600	tgttcaccatcagcctagacgacca	W37011
124601	gttcaccatcagcctagacgaccac	W37011
124602	ttcaccatcagcctagacgaccaca	W37011
124603	catcagcctagacgaccacactcta	W37011
124604	atcagcctagacgaccacactctag	W37011
124605	gtaaacccagcatttgggatgtgaa	X72910
124606	gaagctaactctcattgaattcaca	X72910
124607	tgcttacccgtacagtagtcttgat	X72910
124608	taaccagagtcattttctccatctt	X72910
124609	gagtcattttctccatctttagaaa	X72910
124610	agagctcacagacccgaagctactg	X72910
124611	tgcctcacacctgaatgctgtacat	X72910
124612	acacctgaatgctgtacatctattt	X72910
124613	gaatgctgtacatctatttgattgt	X72910
124614	tcatagtaacttctcatgttatgga	X72910
124615	cttctcatgttatggaattgatttg	X72910
124616	tttgcattgaacacaaactgtaaat	X72910
124617	gaatagccacgtttggaatactttg	X72910
124618	agttattggtcctgtgcctgaaagg	X72910
124619	ttccaatttccttgatatacacata	X72910
124620	tttccttgatatacacatacctttct	X72910
124621	tgatatacacataccttctaaaacc	X72910
124622	tttgttcgcatggtcacacactgat	X72910
124623	cgcatggtcacacactgatgcttac	X72910
124624	gtcacacactgatgcttacccgtac	X72910
124625	taggactctgagctctgagggacct	L21203
124626	aatccaccaggacctggaggcaggc	L21203
124627	cactagctcatgtacacacctatga	L21203
124628	ctcatgtacacacctatgaagctcc	L21203
124629	tacacacctatgaagctccattatg	L21203
124630	cattatgccagactaaaggaggcag	L21203
124631	gaccagctgcaggatttggggcatc	L21203
124632	tctttccttggtggtcagcacatct	L21203
124633	ggtcagcacatctataagtttctcc	L21203
124634	cacatctataagtttctcctgactt	L21203
124635	tataagtttctcctgacttctgggc	L21203
124636	ctgacttctgggcttttctgcctgc	L21203
124637	gctactctgtgaagcatcctgtggg	L21203
124638	cgacctggcaacctaccacaagagg	L21203
124639	tcccatggtagagggctggttccag	L21203
124640	caatctgtatgttcctggccaggtg	L21203
124641	gtatgttcctggccaggtgaccccg	L21203
124642	cgtcctatggattggcagcttggtg	L21203
124643	gctgcttgcactggtcttccttgcc	L21203
124644	cccagacactagctcatgtacacac	L21203
124645	atctctggggcacctgataagtatg	M31811
124646	tctggggcacctgataagtatgagt	M31811
124647	gacagctacaccctgacagaggagc	M31811
124648	agctacaccctgacagaggagctgg	M31811

TABLE 1

SEQ ID NO	sequence	DBAxnID
39441	actgctgtacattgagcttcgtggt	AA013973
39442	gctgtacattgagcttcgtggtcac	AA013973
39443	gtacattgagcttcgtggtcacact	AA013973
39444	cattgagcttcgtggtcacactgtg	AA013973
39445	gcttcgtggtcacactgtgatcctg	AA013973
39446	tcgtggtcacactgtgatcctgcat	AA013973
39447	tctcttagagacctccgctccgtac	AA013976
39448	tcttagagacctccgctccgtacac	AA013976
39449	gagctgcctacgatgagacaaaacg	AA013976
39450	gctgcctacgatgagacaaaacggt	AA013976
39451	tactgggtctttcagggcaaacctg	AA013976
39452	gtctttcagggcaaacctgtgatgc	AA013976
39453	gggcaaacctgtgatgcccagtcaa	AA013976
39454	gcaaacctgtgatgcccagtcaaaa	AA013976
39455	acctgtgatgcccagtcaaaacacc	AA013976
39456	ctgtgatgcccagtcaaaacacctt	AA013976
39457	gtgatgcccagtcaaaacaccttcg	AA013976
39458	gatgcccagtcaaaacaccttcgaa	AA013976
39459	tacacctccagctttttccactaca	AA013976
39460	tccagctttttccactacaccgaga	AA013976
39461	cagcttttttccactacaccgagaca	AA013976
39462	gcttttttccactacaccgagacaga	AA013976
39463	tttccactacaccgagacagataaa	AA013976
39464	tccactacaccgagacagataaaag	AA013976
39465	cactacaccgagacagataaaagag	AA013976
39466	cactctgggagctgcctacgatgag	AA013976
39467	ggagccaggcatctacttcattgac	U51014
39468	aggcatctacttcattgaccacctc	U51014
39469	tggccttgtaagctctgtgatgtca	U51014
39470	gatcacatttgatcctaccaaaacc	U51014
39471	atttgatcctaccaaaaccactgct	U51014
39472	cactgctgctgtttctgagaaaaga	U51014
39473	aaagcattttattcacctgcaagat	U51014
39474	ttttattcacctgcaagatcacatc	U51014
39475	ccctagctttgattttgcttaaatg	U51014
39476	taactcgatttttgtgctcagggaa	U51014
39477	gatttttgtgctcagggaagatgca	U51014
39478	aaatcaacatgcagaatggaatttg	U51014
39479	ctacttcattgaccacctcttggac	U51014
39480	taaccaagaggtcctgcagcgcttc	U51014
39481	tgtcgtgactgacagcggcatggag	U51014
39482	gactgacagcggcatggagctgctg	U51014
39483	gacatgtgtaccccggactgtggag	U51014
39484	gtgcatggcaggctgcgacaaggca	U51014
39485	ctgcgacaaggcatctgtgcccttc	U51014
39486	ccagctgagacactcagtgagactg	U51014
39487	ggcttccaacaggctaagcaagcct	AA016545
39488	cttccaacaggctaagcaagcctcc	AA016545
39489	agccactcatgatattcccacctgt	AA016545
39490	cactcatgatattcccacctgtctc	AA016545
39491	actcatgatattcccacctgtctcc	AA016545
39492	tcatgatattcccacctgtctcctc	AA016545
39493	tcgcaggaaaaccctgttggcaaca	AA016545
39494	ctgttggcaacacttggtataaaag	AA016545
39495	tggtacatcttattttcttctcaaa	AA016545
39496	attttcttctcaaattacaggccag	AA016545
39497	ttttcttctcaaattacaggccagc	AA016545
39498	ttcttctcaaattacaggccagcaa	AA016545
39499	ttccaacaggctaagcaagcctcct	AA016545
39500	tcttctcaaattacaggccagcaaa	AA016545
39501	aatatactggaagccactcatgata	AA016545
39502	tatactggaagccactcatgatatt	AA016545
39503	atactggaagccactcatgatattc	AA016545
39504	actggaagccactcatgatattccc	AA016545
39505	ctggaagccactcatgatattccca	AA016545
39506	ggaagccactcatgatattcccacc	AA016545
39507	gaagccactcatgatattcccacct	AA016545
39508	gcccacagcaccgattctgatgtgg	U51112
82045	ggctttgctatgctccttccttccc	AA103353
82046	gccgtagcatccaaaccctgcatgt	AA103353
82047	cgtagcatccaaaccctgcatgtgc	AA103353
82048	gcatccaaaccctgcatgtgctcag	AA103353
82049	atccaaaccctgcatgtgctcagtg	AA103353
82050	ccaaaccctgcatgtgctcagtgga	AA103353
82051	aaaccctgcatgtgctcagtggaga	AA103353
82052	cctgcatgtgctcagtggagatatg	AA103353
82053	tgcatgtgctcagtggagatatgag	AA103353
82054	atgagtcagctgccggctggagttc	AA103353
82055	gagtcagctgccggctggagttcga	AA103353
82056	ccgcagcgccagtccaggtgccatg	AA103353
82057	ccagtccaggtgccatggctgctat	AA103353
82058	agtccaggtgccatggctgctatgt	AA103353
82059	tccaggtgccatggctgctatgtac	AA103353
82060	cttagccggcacggctaaggcctgg	AA103353
82061	ctaaggcctggtgctggtcaccgtg	AA103353
82062	tggtcaccgtgccgtagcatccaaa	AA103353
82063	gtcaccgtgccgtagcatccaaacc	AA103353
82064	ctccgagcactagttccacaagtcg	L76946
82065	gcactagttccacaagtcgcattac	L76946
82066	ctagcatcttctttaacacttcagg	L76946
82067	ttaacacttcaggtaactgaggcat	L76946
82068	cttcaggtaactgaggcatgaatac	L76946
82069	tgaatacctaatcacttgcccaaa	L76946
82070	tcacttgcccaaagtaattattggc	L76946
82071	agtaattattggccactgcaagcct	L76946
82072	ccactgcaagcctgttctcattcct	L76946
82073	caagcctgttctcattcctgggaga	L76946
82074	tgttctcattcctgggagattcaag	L76946
82075	cattcctgggagattcaagaaaagg	L76946
82076	gttccacaagtcgcattaccttgcc	L76946
82077	caagtcgcattaccttgccaggaga	L76946
82078	gcattaccttgccaggagactacgg	L76946
82079	gataaaacatcatccagaaacttcc	L76946
82080	acatcatccagaaacttccttggaa	L76946
82081	atccccaaggtctgaagacaatgtg	L76946
82082	tttctgaggactttggtactagcat	L76946
82083	ttggtactagcatcttctttaacac	L76946
82084	aaccaccaaacttatgacctgtctg	X96737
82085	acttatgacctgtctgttaaaactg	X96737
82086	gataacccattagaagcacaagaat	X96737
82087	aacccattagaagcacaagaattat	X96737
82088	atttattcatactgcacatagttta	X96737
82089	tcatactgcacatagtttaatacct	X96737
82090	ttctgtttatccattaccaagttga	X96737
82091	tgtttatccattaccaagttgaact	X96737
82092	ttatccattaccaagttgaactgag	X96737
82093	tccattaccaagttgaactgagatt	X96737
82094	tttcttctgtacatatttgggacaa	X96737
82095	cttctgtacatatttgggacaaaat	X96737
82096	tatgacctgtctgttaaaactgtct	X96737
82097	ctttgtatgttcacacaaagtgcta	X96737
82098	ttcacacaaagtgctaggaaatgga	X96737
82099	tagtgctgcttatatccaggagccc	X96737
82100	tgctgcttatatccaggagcccata	X96737
82101	ttatatccaggagcccatacaagta	X96737
82102	ccaggagcccatacaagtaatgtag	X96737
82103	tttgataacccattagaagcacaag	X96737
82104	aagcctgatcacctaaaactagaga	D16492
82105	cctgatcacctaaaactagagacac	D16492
82106	gttcctaagcaactctaaaatgtgc	D16492
82107	aagcctgtcttccaggcaactgaaa	D16492
82108	gtcttccaggcaactgaaatctacc	D16492
82109	ttccaggcaactgaaatctacctcc	D16492
82110	ttttatactgcgagcactggtatta	D16492
82111	tatactgcgagcactggtattagca	D16492
82112	agtgatgatcatgcctgggattcat	D16492
124649	accctgacagaggagctggctgagt	M31811
124650	tgtgggctccctttctcttgagagt	M31811
124651	gggctccctttctcttgagagtagt	M31811
124652	gctgttcctccttgccaacattcct	M31811
124653	ccttgccaacattccttgcctacat	M31811
124654	cattccttgcctacattagagctcc	M31811
124655	tccttgcctacattagagctcccct	M31811
124656	cttttaacctcagctgttgagaggg	M31811
124657	tccagagaggtctctacccgggatt	M31811
124658	gtctctacccgggattgtcactgag	M31811
124659	aagcagcgcctgggatctgagagga	M31811
124660	gaatccccagaactggacctcagtt	M31811
124661	tccccagaactggacctcagttatt	M31811
124662	gaactggacctcagttattcccact	M31811
124663	ctggacctcagttattcccactcag	M31811
124664	gacctcagttattcccactcagacc	M31811
124665	ttgtccctgcaactacctggagcca	AA050149
124666	tccctgcaactacctggagccagtt	AA050149
124667	aagactccagttgtcaccaggtcac	AA050149
124668	actccagttgtcaccaggtcacaag	AA050149
124669	ccagttgtcaccaggtcacaagcaa	AA050149
124670	gctcagcgtgcctatgccttacatg	AA050149
124671	cagcgtgcctatgccttacatgctc	AA050149
124672	gcctatgccttacatgctcaaggtg	AA050149
124673	gccttacatgctcaaggtgcattac	AA050149
124674	gcattacaaatacacagtggtcatg	AA050149
124675	caaatacacagtggtcatggagacg	AA050149
124676	cccctacagccagcttcggaacatg	AA050149
124677	ctacctggagccagttgagcttcgg	AA050149
124678	cagccagcttcggaacatggtgtct	AA050149
124679	tgagcttcggattcaccctcagtcg	AA050149
124680	tcagtcgcagccccaggaagatacc	AA050149
124681	gtcgcagccccaggaagatacctct	AA050149
124682	gcagccccaggaagatacctctcca	AA050149
124683	ggaagatacctctccagaatccgat	AA050149
124684	agatacctctccagaatccgatatt	AA050149
124685	cccaggaagactccagttgtcacca	AA050149
124686	gagaagccgagcaccacggtcgcgc	W36570
124687	agaagccgagcaccacggtcgcgct	W36570
124688	agagtgttgtggctagcgagatgta	W36570
124689	tgttgtggctagcgagatgtacctt	W36570
124690	ctttaagcctctcgcgagaaacact	W36570
124691	tttaagcctctcgcgagaaacactc	W36570
124692	ttaagcctctcgcgagaaacactcc	W36570
124693	taagcctctcgcgagaaacactcct	W36570
124694	aagcctctcgcgagaaacactcctc	W36570
124695	tcgcgagaaacactcctcctcgggt	W36570
124696	agccgagcaccacggtcgcgctctt	W36570
124697	cgagcaccacggtcgcgctcttcga	W36570
124698	gagcaccacggtcgcgctcttcgac	W36570
124699	tcgcgctcttcgaccgcggcgactt	W36570
124700	gatcaagtacatggggcccggcagg	W36570
124701	atcaagtacatggggcccggcagga	W36570
124702	tcaagtacatggggcccggcaggag	W36570
124703	caagtacatggggcccggcaggagt	W36570
124704	gattgtaggcacgcgtgtagacaag	W36586
124705	tgtaggcacgcgtgtagacaagaat	W36586
124706	gagcgtccacttggttggatcctga	W36586
124707	ccacttggttggatcctgatttagg	W36586
124708	gtgtggctttccgacttgagttcag	W36586
124709	tggctttccgacttgagttcagcac	W36586
124710	tccgacttgagttcagcaccaactt	W36586
124711	ttgagttcagcaccaacttaacttt	W36586
124712	tcctaccggagttcaatctggccac	W36586
124713	agttcaatctggccactgttaggga	W36586
124714	tcaatctggccactgttagggaggc	W36586
124715	tggccactgttagggaggcaagaaa	W36586
124716	tgacatttttgccattgctctctga	W36586

TABLE 1

SEQ ID NO	sequence	DBAxnID
39509	agcaccgattctgatgtggcccaac	U51112
39510	ccctagaggcctttgctcacaggca	U51112
39511	cccagctgtctcctctccatgtaag	U51112
39512	tgtctcctctccatgtaagtgctgt	U51112
39513	ctctccatgtaagtgctgttttggg	U51112
39514	ttttgggcaagagttgccaggcagg	U51112
39515	gcaagagttgccaggcagggtgaca	U51112
39516	gttgccaggcagggtgacatcgaca	U51112
39517	atcgacaaccatgtacaaagccacc	U51112
39518	gtacaaagccaccgcagctgctgcc	U51112
39519	cgctctgccgcctgtacaaaggaaa	U51112
39520	gattctgatgtggcccaacctgtca	U51112
39521	gatgtggcccaacctgtcatgactc	U51112
39522	cctgtcatgactcaagctcaccagc	U51112
39523	tgctcttgggcctgcttttacttct	U51112
39524	tgcttttacttctgttggccagttc	U51112
39525	tacttctgttggccagttctaccac	U51112
39526	tggaccactctctttcctgcattct	U51112
39527	actctctttcctgcattctgtagag	U51112
39528	gaataccagcatctatgtgcattag	U20238
39529	tttgatttctcacaaagccaaaggg	U20238
39530	gtactgctggagccttatgccaaac	U20238
39531	gccaaactgcatttccagaggctga	U20238
39532	ctgcatttccagaggctgagagagg	U20238
39533	gggcactctatgggcagatgttgct	U20238
39534	tctatgggcagatgttgctgaagga	U20238
39535	acacaaccacacattctggtaccct	U20238
39536	tctgtatctagaacccatagtagca	U20238
39537	tctagaacccatagtagcagaggat	U20238
39538	tggacacagcaggccccttgtactg	U20238
39539	cagcaggccccttgtactgaacttc	U20238
39540	ttctcacaaagccaaagggtcctcg	U20238
39541	ctgcaccggcagcaataaaggccaa	U20238
39542	cctgtgtctctgtgagcccaacagg	U20238
39543	tgagcccaacaggccacacatgcca	U20238
39544	caacaggccacacatgccaatgtct	U20238
39545	gccacacatgccaatgtctggaacc	U20238
39546	catgccaatgtctggaaccacttttt	U20238
39547	cccacagtactgctggagccttatg	U20238
39548	cagctgagctttgctgctggactgg	AA014024
39549	agctttgctgctggactggtgtact	AA014024
39550	taccccgagatgagcgcccacgagc	AA014024
39551	gcccacgagcgtccttagatttcct	AA014024
39552	cgtccttagatttcctcattgagct	AA014024
39553	ccttagatttcctcattgagctgct	AA014024
39554	tagatttcctcattgagctgctgca	AA014024
39555	tcattgagctgctgcacaaggatca	AA014024
39556	ttgagctgctgcacaaggatcagct	AA014024
39557	tgctgcacaaggatcagctggatga	AA014024
39558	aggccatcaagtattaccagcatct	AA014024
39559	ccatcaagtattaccagcatctgta	AA014024
39560	gtgtactcgctgagtctgctgcagg	AA014024
39561	agtattaccagcatctgtacagcat	AA014024
39562	agtctgctgcaggccacgctgcacc	AA014024
39563	ctgcaggccacgctgcaccgctatg	AA014024
39564	acgctgcaccgctatgagcatgccc	AA014024
39565	ctgcaccgctatgagcatgccctct	AA014024
39566	cgctatgagcatgccctctctcagt	AA014024
39567	ctctctcagtgcagtgtggacgtgt	AA014024
39568	agcctgtaccccgagatgagcgccc	AA014024
39569	tggtttgtacctcctagtttgcgca	L16980
39570	ttgcgcactctggaagacaatgaag	L16980
39571	gaaatcgaacgcctcggacaagatt	L16980
39572	gaacgcctcggacaagatttgtaat	L16980
39573	tcacctcactcatcaaactgtttca	L16980
39574	cactcatcaaactgtttcagttctc	L16980
39575	tcaaactgtttcagttctctaggta	L16980
39576	tgtttcagttctctaggtagacagc	L16980

SEQ ID NO	sequence	DBAxnID
82113	gatgatcatgcctgggattcattag	D16492
82114	tacacattcgttcaataaacatctg	D16492
82115	ttcgttcaataaacatctgcattga	D16492
82116	atagagtctatcttgtctaaattca	D16492
82117	ttgtctaaattcataaccttatgcc	D16492
82118	tctaaattcataaccttatgccaac	D16492
82119	ttatgccaaccgactcactaccttc	D16492
82120	taccttcacatccagccagttccta	D16492
82121	cttcacatccagccagttcctaagc	D16492
82122	cagccagttcctaagcaactctaaa	D16492
82123	ccagttcctaagcaactctaaaatg	D16492
82124	cactcacggaccagcgggccagcag	X90829
82125	ggccagcagccaggactgctcagag	X90829
82126	gcaattctgtatggcttctgtataa	X90829
82127	aattctgtatggcttctgtataaat	X90829
82128	tttaatctcagagatttcgatgttt	X90829
82129	taatctcagagatttcgatgttttc	X90829
82130	tcgatgttttcaaagcccgggtgct	X90829
82131	actcgagagcggcgaacactactaa	X90829
82132	gcggcgaacactactaactcctgcg	X90829
82133	ggcgaacactactaactcctgcggt	X90829
82134	cgaacactactaactcctgcggtct	X90829
82135	aacactactaactcctgcggtctag	X90829
82136	ccagcagccaggactgctcagagga	X90829
82137	acactactaactcctgcggtctaga	X90829
82138	agcagccaggactgctcagaggatg	X90829
82139	gacgattgagctgtgccctggacct	X90829
82140	cgattgagctgtgccctggacctcc	X90829
82141	tagccgtctcttccttttcgaagca	X90829
82142	gccgtctcttccttttcgaagcaat	X90829
82143	cgccgtgcaattctgtatggcttct	X90829
82144	ccgtgcaattctgtatggcttctgt	X90829
82145	cctgtaccgctcagaccagctggaa	U65067
82146	ccgctcagaccagctggaagaactg	U65067
82147	atctgctcctgagctcctagaccct	U65067
82148	gctcctagaccctatgcctacagac	U65067
82149	agaccctatgcctacagacctagaa	U65067
82150	ccctgttcctccagagaacatcctg	U65067
82151	tcctccagagaacatcctggatgtc	U65067
82152	tcctgtacaaactcctcaagtactg	U65067
82153	tcctcaagtactgcctccaatgagg	U65067
82154	agtactgcctccaatgagggacgtt	U65067
82155	ggacgttcctggcagtgacagcata	U65067
82156	ggcctatgtgtcctggggcactagg	U65067
82157	tcaggaagaccactatcctgacagt	U65067
82158	agaccactatcctgacagtgacaaa	U65067
82159	tgacaaacgccatgagatttcccag	U65067
82160	acgccatgagatttcccagatggtg	U65067
82161	agcccccagtgctgacagcagccag	U65067
82162	tgacagcagccagcacagatctgct	U65067
82163	cagccagcacagatctgctcctgag	U65067
82164	gcacagatctgctcctgagctccta	U65067
82165	ttctgggacttccctaacagcatgg	AA168858
82166	tctgggacttccctaacagcatggc	AA168858
82167	ctcctgctctgggaccggagagaca	AA168858
82168	tcctgctctgggaccggagagacat	AA168858
82169	tgctctgggaccggagagacatcgg	AA168858
82170	gagagacatcggcctctgcaggctt	AA168858
82171	acttaatgaacaagccagtgaggag	AA168858
82172	aatgaacaagccagtgaggagattt	AA168858
82173	atgaacaagccagtgaggagatttt	AA168858
82174	tgaacaagccagtgaggagattttg	AA168858
82175	tccgccaaccatttttttcagaagag	AA168858
82176	caaccatttttttcagaagaggtcag	AA168858
82177	tgggacttccctaacagcatggccc	AA168858
82178	ggacttccctaacagcatggccccct	AA168858
82179	ctaacagcatggcccctaaacgcca	AA168858
82180	aacagcatggcccctaaacgccagt	AA168858

SEQ ID NO	sequence	DBAxnID
124717	ttttgccattgctctctgatggacg	W36586
124718	tgccattgctctctgatggacgact	W36586
124719	cattgctctctgatggacgactact	W36586
124720	ctgatggacgactacttggggctcg	W36586
124721	atggacgactacttggggctcgtga	W36586
124722	gactacttggggctcgtgagctgag	W36586
124723	tacttggggctcgtgagctgagtga	W36586
124724	gtcagatgccagacagtggttccca	J02652
124725	tgccagacagtggttcccagacaag	J02652
124726	aatacatctctcaatgcctacctttt	J02652
124727	aatgcctacctttctatcagatatt	J02652
124728	ttccggcgggcaggctctgtacagt	J02652
124729	gtacagtgagctccttgaagctttc	J02652
124730	tgagctccttgaagctttcaaggtg	J02652
124731	ccttgaagctttcaaggtgtgagct	J02652
124732	agctttcaaggtgtgagctaaaacg	J02652
124733	agacttcctaatgacaacattgtga	J02652
124734	tttccatgttgtcaggtagttgtaa	J02652
124735	tgtatttacctatgcaaaagattta	J02652
124736	gttcccagacaagctcaggcctcca	J02652
124737	agacaagctcaggcctccatgaaga	J02652
124738	gcctccatgaagatcacctgctcta	J02652
124739	atgaagatcacctgctctaatgtcc	J02652
124740	tgctctaatgtccctgtgcttagtt	J02652
124741	aatgtccctgtgcttagttcggagg	J02652
124742	cctgtgcttagttcggaggactgag	J02652
124743	tgagtaaatacatctctcaatgcct	J02652
124744	tgttccacagactcttcaggcgtca	W36620
124745	acagactcttcaggcgtcacatcaa	W36620
124746	ttcacctactcctaagaccagttgt	W36620
124747	ccacatcaattcaaactccactgga	W36620
124748	catcaattcaaactccactggaagc	W36620
124749	caattcaaactccactggaagcagc	W36620
124750	aagcagctagtttcggctctggcct	W36620
124751	cagctagtttcggctctggccttga	W36620
124752	ctagtttcggctctggccttgaagt	W36620
124753	gctctggccttgaagtcaaaagtgg	W36620
124754	gtggaaccagctcagagccttctac	W36620
124755	gaaccagctcagagccttctacttt	W36620
124756	gactcttcaggcgtcacatcaaagc	W36620
124757	cagctcagagccttctactttgaag	W36620
124758	tcttcaggcgtcacatcaaagcaat	W36620
124759	ggcgtcacatcaaagcaattccaag	W36620
124760	gtcacatcaaagcaattccaagagt	W36620
124761	acatcaaagcaattccaagagttca	W36620
124762	caattccaagagttcacctactcct	W36620
124763	ttccaagagttcacctactcctaag	W36620
124764	gagttcacctactcctaagaccagt	W36620
124765	cggcccgcaacccagatgaaatcgg	W36623
124766	cgggaactttatccatcgagaactg	W36623
124767	agcttgcaacacttgacgctaattg	W36623
124768	gcttgcaacacttgacgctaattgc	W36623
124769	ttgcaacacttgacgctaattgccc	W36623
124770	tgcaacacttgacgctaattgcccc	W36623
124771	gcaacacttgacgctaattgccccg	W36623
124772	acacttgacgctaattgccccggct	W36623
124773	cacttgacgctaattgccccggcta	W36623
124774	ttgacgctaattgccccggctaacg	W36623
124775	tgacgctaattgccccggctaacga	W36623
124776	tgccccggctaacgattccttgctt	W36623
124777	ggaactttatccatcgagaactgga	W36623
124778	gaactttatccatcgagaactggaa	W36623
124779	aactttatccatcgagaactggaag	W36623
124780	ctttatccatcgagaactggaagct	W36623
124781	tttatccatcgagaactggaagctt	W36623
124782	ttatccatcgagaactggaagcttg	W36623
124783	ctggaagcttgcaacacttgacgct	W36623
124784	aagcttgcaacacttgacgctaatt	W36623

TABLE 1

SEQ ID NO	sequence	DBAxnID
39577	ctaagttgtcacaaactgtgtaaat	L16980
39578	aattctatttctatatcgtggtgtc	L16980
39579	atttctatatcgtggtgtcacagta	L16980
39580	atatcgtggtgtcacagtagagtac	L16980
39581	atgagccgcctctcaaaggtggcgc	L16980
39582	tcaaaggtggcgccagtgattaaag	L16980
39583	gggaccacaatggtcagctaccaac	L16980
39584	acaatggtcagctaccaacccttag	L16980
39585	atggtcatctcaaaccctgcagcaa	L16980
39586	aaccctgcagcaactcaccaagaca	L16980
39587	caagacattgacttccttattgaag	L16980
39588	attgacttccttattgaagaaatcg	L16980
39589	acagtatcgatctcatctacgtaca	AA014057
39590	tcgatctcatctacgtacactatgc	AA014057
39591	attgctaaaaagttcacctgagcct	AA014057
39592	ttcacctgagcctccgtggctactg	AA014057
39593	gctactgccttggccaacagcgtct	AA014057
39594	gccttggccaacagcgtcttcctat	AA014057
39595	gccaacagcgtcttcctatagtcag	AA014057
39596	ttcctatagtcaggggggccccagca	AA014057
39597	cccagcaacaggtctctctctggaa	AA014057
39598	tctggaatcttggcactgagatgaa	AA014057
39599	atcttggcactgagatgaatgaatc	AA014057
39600	ctctctgtgctcttcagataatcgc	AA014057
39601	tcatctacgtacactatgcaaggtc	AA014057
39602	actatgcaaggtcgtcttgctcgtg	AA014057
39603	aggcttcgcactcgggcagttccca	AA014057
39604	cgcactcgggcagttcccagatctc	AA014057
39605	agatctccaatcacttccacaaact	AA014057
39606	ccaatcacttccacaaactcttggc	AA014057
39607	acttccacaaactcttggccagcca	AA014057
39608	ccagccattgctaaaaagttcacct	AA014057
39609	ttggatgactttcacgtggaatcca	L16462
39610	gactttcacgtggaatccatagata	L16462
39611	acttttctgcagatgacaggacaga	L16462
39612	gaaatgctctttctcctcaagtaac	L16462
39613	ctcctcaagtaacactacggaccag	L16462
39614	ctcaagtaacactacggaccagaga	L16462
39615	gagagaaccttggctcccacgagaa	L16462
39616	gctcccacgagaatggttatcagca	L16462
39617	gttatcagcacttggcatttccttt	L16462
39618	tggcatttccttttacaaacatgaa	L16462
39619	tgaaacttgtctttccagagttgca	L16462
39620	ttgtctttccagagttgcagatatt	L16462
39621	tccatagataccgccagaataatat	L16462
39622	ctcaaaaaacttccacaagagcaga	L16462
39623	gagcagattgccctggatgtatgtg	L16462
39624	cagattgccctggatgtatgtgctt	L16462
39625	attgccctggatgtatgtgcttaca	L16462
39626	cccaaatctggctggctgacttttc	L16462
39627	tctggctggctgacttttctgcaga	L16462
39628	ctgacttttctgcagatgacaggac	L16462
39629	tgacactactttgtatcacacacac	X99915
39630	tactttgtatcacacacacacatct	X99915
39631	tgaaattttgctacaaccagctcag	X99915
39632	tttgctacaaccagctcagcctttt	X99915
39633	acaaccagctcagcctttgcctaa	X99915
39634	agctcagcctttgcctaatgcaat	X99915
39635	gccttttgcctaatgcaatgaaaaa	X99915
39636	ttttggacgctctgtgtagagttct	X99915
39637	gagttctatgccttttctctcctatt	X99915
39638	tttctctcctattaagtgtgctgac	X99915
39639	tgctgactttccagagtgttaccca	X99915
39640	agagtgttacccactggccaggagg	X99915
39641	gtatcacacacacacatctgtagtg	X99915
39642	cacacacacatctgtagtgttcaaa	X99915
39643	gtctccaagtttgtacctcaaatga	X99915
39644	aaatggacttcctgatttgcaagga	X99915

SEQ ID NO	sequence	DBAxnID
82181	acagcatggcccctaaacgccagtc	AA168858
82182	cagcatggcccctaaacgccagtct	AA168858
82183	cacctcctgctctgggaccggagag	AA168858
82184	cctcctgctctgggaccggagagac	AA168858
82185	agctaggccctatcctgacatcagc	U65068
82186	tgagcacctggctcaggtaactcac	U65068
82187	tcagtatacttcagcatgcccacca	U65068
82188	taaagtggcagccccatgggggaca	U65068
82189	agggattcactcttctttagagcaa	U65068
82190	tcactcttctttagagcaaattgtt	U65068
82191	aattgttcctcagacttcactgggc	U65068
82192	gacttcactgggcaacctgtctgac	U65068
82193	actgggcaacctgtctgaccttatc	U65068
82194	gtctgaccttatctatacctcagcc	U65068
82195	ctatacctcagccatcgtcaccaat	U65068
82196	ctcagccatcgtcaccaatgtagac	U65068
82197	aactcacctgcctgaagccaagatc	U65068
82198	cgtcaccaatgtagaccacttctaa	U65068
82199	cctgcctgaagccaagatccaggtg	U65068
82200	ccagaatcggcgagccaagagaatc	U65068
82201	agccctaaactccaggctggagctt	U65068
82202	aaactcctgttctcttccagacact	U65068
82203	gctaccttgggaccctggaacatca	U65068
82204	taccagttcagctcagtatacttca	U65068
82205	ttcagctcagtatacttcagcatgc	U65068
82206	ccatacatactccactgatgccaaa	AA103492
82207	tacatactccactgatgccaaacca	AA103492
82208	ttgatgtcttctacttcagctgcct	AA103492
82209	atgtcttctacttcagctgcctcat	AA103492
82210	tcccactcaatgtgctttttgtaga	AA103492
82211	cactcaatgtgctttttgtagaaga	AA103492
82212	aaatggagcgccaggtcttccttgc	AA103492
82213	tggagcgccaggtcttccttgcaac	AA103492
82214	agcgccaggtcttccttgcaacgtg	AA103492
82215	tcttccttgcaacgtggaaggatat	AA103492
82216	tccttgcaacgtggaaggatattcc	AA103492
82217	atgaactccagtttcagattaagga	AA103492
82218	atactccactgatgccaaaccagag	AA103492
82219	cactgatgccaaaccagagcattga	AA103492
82220	tgatgccaaaccagagcattgacgt	AA103492
82221	tgccaaaccagagcattgacgtctc	AA103492
82222	cgctcaacaccttgggcccagtcat	AA103492
82223	tcaacaccttgggcccagtcatgaa	AA103492
82224	agatggagcccctgaataacctgca	AA103492
82225	tgaataacctgcaggtggctgttaa	AA103492
82226	ctagctctttccactcctgtggtag	AA103507
82227	agctctttccactcctgtggtagaa	AA103507
82228	cctcaggctctagacaaaattcaga	AA103507
82229	tcatttaacttggaagctctgtctg	AA103507
82230	atttaacttggaagctctgtctgga	AA103507
82231	ttaacttggaagctctgtctggaag	AA103507
82232	ctctgtctggaagctctggatataa	AA103507
82233	ctgtctggaagctctggatataagt	AA103507
82234	tataagttcggtgttcttgctaaga	AA103507
82235	taagttcggtgttcttgctaagatt	AA103507
82236	agttcggtgttcttgctaagattgt	AA103507
82237	atatgaaaacacgacatcagcgggg	AA103507
82238	aacgtgctgtccttctgagtcaccc	AA103507
82239	cgtgctgtccttctgagtcaccctc	AA103507
82240	tcctcctcatccaagaagaagaagg	AA103507
82241	ctcctcatccaagaagaagaaggca	AA103507
82242	tggaggatcctcaggctctagacaa	AA103507
82243	gaggatcctcaggctctagacaaaa	AA103507
82244	ggatcctcaggctctagacaaaatt	AA103507
82245	atcctcaggctctagacaaaattca	AA103507
82246	ctggccgcgcacgcgccttacatga	U66918
82247	gcgcacgcgccttacatgatgttcc	U66918
82248	caagaactccagcatcgcggatctc	U66918

SEQ ID NO	sequence	DBAxnID
124785	ccatgtgacatccaaatgtggctct	M21041
124786	gacatccaaatgtggctctctaaag	M21041
124787	cactttggctgaggatgtcactgca	M21041
124788	ggatgtcactgcagcgcttgctaag	M21041
124789	cactgcagcgcttgctaagcagggc	M21041
124790	cttgtgaatacttctcctttagcac	M21041
124791	aatacttctcctttagcactggagt	M21041
124792	tctcctttagcactggagtaacatt	M21041
124793	ttaggcatgagctcttggcaggagt	M21041
124794	tgggctctgagcaggtgtcatattc	M21041
124795	catattcattctttacaaaccatag	M21041
124796	cattctttacaaaccatagagaaat	M21041
124797	acttgacaatgctcaccacgtacct	M21041
124798	caatgctcaccacgtacctggaggt	M21041
124799	gcatgcaaaggcccgcgtagatcac	M21041
124800	agatcacggggctgagatcatcaca	M21041
124801	tgagatcatcacacagtccccaagc	M21041
124802	cccaagcaggtccagcgtggcatca	M21041
124803	cagcaacgtctcatcttctggaagc	M21041
124804	atcttctggaagcatcaacctgctc	M21041
124805	accataggaacttcctgcttatctc	M60474
124806	ggaacttcctgcttatctcatgtta	M60474
124807	acagcagacaatgctttcctttcca	M60474
124808	gacaatgctttcctttccagttgtc	M60474
124809	gctttcctttccagttgtctttgag	M60474
124810	agcatctcgtctctcgtgttttgta	M60474
124811	tcgtctctcgtgttttgtaaatact	M60474
124812	agctttgaccaatttgacatagagc	M60474
124813	ttgcttacaagcattgctattcaac	M60474
124814	acaagcattgctattcaactcctgc	M60474
124815	attgctattcaactcctgcttaagg	M60474
124816	taatcttctgtgagcacactaaaag	M60474
124817	tcctgcttatctcatgttagctgta	M60474
124818	ttatctcatgttagctgtaccaagt	M60474
124819	agctgtaccaagtcagtgattaagt	M60474
124820	ttattgctggtttatgaggttaata	M60474
124821	atatccttcagaagcacatgaagtt	M60474
124822	aaactgcagtcatcttggacctttt	M60474
124823	tttaaactcaaccaagctgtgatac	M60474
124824	ctcaaccaagctgtgatacgtggaa	M60474
124825	ggccctcacggcacatgcgttacgc	W36657
124826	cacggcacatgcgttacgctgcctg	W36657
124827	acaggcacctactgccatgaaaaca	W36657
124828	ggcacctactgccatgaaaacattg	W36657
124829	acctactgccatgaaaacattgacg	W36657
124830	tactgccatgaaaacattgacgact	W36657
124831	aacattgacgactgcatgggccagc	W36657
124832	attgacgactgcatgggccagccct	W36657
124833	tgccgcaacgggggcacgtgcattg	W36657
124834	gtggactccttccgctgcttctgcc	W36657
124835	ttctgccccagtggctgggaaggag	W36657
124836	tgccccagtggctgggaaggagaac	W36657
124837	ggcacatgcgttacgctgcctgggg	W36657
124838	cccagtggctgggaaggagaactct	W36657
124839	acatgcgttacgctgcctgggggaa	W36657
124840	tgcgttacgctgcctgggggaaact	W36657
124841	aacttctcctgcatctgtgacagcg	W36657
124842	ttctcctgcatctgtgacagcggct	W36657
124843	tgcatctgtgacagcggcttcacag	W36657
124844	gacagcggcttcacaggcacctact	W36657
124845	agcggcttcacaggcacctactgcc	W36657
124846	tcacctcttctgctgttcagacaga	M73760
124847	cttctgctgttcagacagagaacat	M73760
124848	ctctggagcttttgccagcctgtga	M73760
124849	agcttttgccagcctgtgaggaaat	M73760
124850	gccatgcgatctggcctgtctgtag	M73760
124851	cgatctggcctgtctgtagttcctg	M73760
124852	ggcctgtctgtagttcctgctgaag	M73760

TABLE 1

SEQ ID NO	sequence	DBAxnID
39645	gcaaggaactacctccacacttcca	X99915
39646	acgaacttgcagcctatatcactca	X99915
39647	ttgcagcctatatcactcattgatt	X99915
39648	cctatatcactcattgatttccttc	X99915
39649	atgctaacatgttcccagctcttat	U34228
39650	acatgttcccagctcttattagtat	U34228
39651	gcattaatccttactgtgctttgat	U34228
39652	caccccaggttgatcttagccagca	U34228
39653	aggttgatcttagccagcagcagta	U34228
39654	atcttagccagcagcagtacatctt	U34228
39655	acatcttccagcagtgtgaagctcc	U34228
39656	tttgaagcaatcctctccttcttgt	U34228
39657	ttcttgttcctgtgtcagaccaggc	U34228
39658	ttcctgtgtcagaccaggctatcca	U34228
39659	tgtcagaccaggctatccagtcagt	U34228
39660	agtcagtcctctgtggagccacgtc	U34228
39661	ctgcttgggccatcacaaatgcaac	U34228
39662	tatggagctaatctctcaagttttc	U34228
39663	tcacaaatgcaacttctggaggatc	U34228
39664	atgcaacttctggaggatcagctga	U34228
39665	cttctggaggatcagctgagcagat	U34228
39666	agccactctgtgatctcctcactgt	U34228
39667	atctcctcactgtcatggatgcaaa	U34228
39668	tacaggttgccctaaatggcttaga	U34228
39669	gaaacggctcaggcattaatcctta	U34228
39670	atggatgccttagcactgaagaaag	U56819
39671	gatgccttagcactgaagaaaggtt	U56819
39672	atagcatttatctctcaacctcttc	U56819
39673	tgtcacagattatcttccaacgcct	U56819
39674	cacagattatcttccaacgccttat	U56819
39675	atcaagcctggaaacttctaaatgt	U56819
39676	gctcttatcttgccaaggttgaaaa	U56819
39677	aaattctgactttgagcttatgaac	U56819
39678	ttctgactttgagcttatgaactaa	U56819
39679	gaactaacatagacagctcaggatt	U56819
39680	ctaacatagacagctcaggattaac	U56819
39681	acatagacagctcaggattaacagg	U56819
39682	attgctgctatttttctgcctcctca	U56819
39683	ttctgcctcctcagtacctttgcaa	U56819
39684	acctttgcaactgcctctttcctca	U56819
39685	tttgcaactgcctctttcctcatag	U56819
39686	actgcctctttcctcatagcattta	U56819
39687	gcctctttcctcatagcatttatct	U56819
39688	tctttcctcatagcatttatctctc	U56819
39689	ctcatagcatttatctctcaacctc	U56819
39690	agtatcatagagggcccaagataca	X94151
39691	tatcatagagggcccaagatacatg	X94151
39692	ccatgacccatatgcaaagggacgg	X94151
39693	catgacccatatgcaaagggacgga	X94151
39694	atgacccatatgcaaagggacggac	X94151
39695	tgacccatatgcaaagggacggaca	X94151
39696	acccatatgcaaagggacggacaca	X94151
39697	ggacggacacagggtcgatgctgtt	X94151
39698	atcatagagggcccaagatacatgc	X94151
39699	tcaggtgccatgacccatatgcaaa	X94151
39700	caggtgccatgacccatatgcaaag	X94151
39701	aggtgccatgacccatatgcaaagg	X94151
39702	ggtgccatgacccatatgcaaaggg	X94151
39703	gtgccatgacccatatgcaaaggga	X94151
39704	tgccatgacccatatgcaaagggac	X94151
39705	gccatgacccatatgcaaagggacg	X94151
39706	cctggaaacactcggataggccgtg	L34290
39707	aacactcggataggccgtggcactt	L34290
39708	ggatctagtctgtcttcagagcact	L34290
39709	tcttcagagcactttaaactgtacc	L34290
39710	ctgtacctttttcttggcgtggactg	L34290
39711	cttttcttggcgtggactgtggctt	L34290
39712	ttggcgtggactgtggcttctagaa	L34290

SEQ ID NO	sequence	DBAxnID
82249	aactccagcatcgcggatctcagac	U66918
82250	ccagcatcgcggatctcagactgaa	U66918
82251	agcatcgcggatctcagactgaaag	U66918
82252	catcgcggatctcagactgaaagct	U66918
82253	tcgcggatctcagactgaaagctaa	U66918
82254	tttctgcaccctggatccccagggc	U66918
82255	tctgcaccctggatccccagggcgg	U66918
82256	actctgcgctggacccgggatccca	U66918
82257	gcgatggactcgttcataggaataa	U66918
82258	gcgccttacatgatgttcccggcac	U66918
82259	gccttacatgatgttcccggcaccg	U66918
82260	cttacatgatgttcccggcaccgcc	U66918
82261	gccaagaccaccagcaagaactcca	U66918
82262	caagaccaccagcaagaactccagc	U66918
82263	agaccaccagcaagaactccagcat	U66918
82264	caccagcaagaactccagcatcgcg	U66918
82265	ccagcaagaactccagcatcgcgga	U66918
82266	gaatgtgttgcagcagtgggaactg	Y08485
82267	tcgacaacaacaaaagatttttcag	Y08485
82268	aactataatatccgaaatcattagc	Y08485
82269	ttaagtaccagctattccaatgtat	Y08485
82270	accagctattccaatgtatcaaact	Y08485
82271	agctattccaatgtatcaaactttc	Y08485
82272	tattccaatgtatcaaactttcagg	Y08485
82273	tttaatagttgttctctccacgatt	Y08485
82274	aatagttgttctctccacgattgtg	Y08485
82275	agttgttctctccacgattgtgtca	Y08485
82276	tgttctctccacgattgtgtcaata	Y08485
82277	ctccacgattgtgtcaataaagatg	Y08485
82278	gatttttcagcagtctagaattgtt	Y08485
82279	aattgttcagagccagagaatgttt	Y08485
82280	gatacacgagcagttcataaagagt	Y08485
82281	taatctatttactggcacacaaagt	Y08485
82282	tctatttactggcacacaaagtgaa	Y08485
82283	ggaaactcagcagcaagagatggca	Y08485
82284	aactcagcagcaagagatggcaaat	Y08485
82285	attctgatgagtctttgaagaaaga	Y08485
82286	ttggagacgcgttggacaggactga	Z80941
82287	gcaacagtactctgttggaatgcac	Z80941
82288	ttgtccatactgtgcgtaaaatcac	Z80941
82289	ctcccttaagcggtatgtctcaggg	Z80941
82290	aggaattcttgcagctgattggcta	Z80941
82291	tcttgcagctgattggctacagcag	Z80941
82292	ttggctacagcagcaagttccagag	Z80941
82293	gctacagcagcaagttccagagagt	Z80941
82294	agaggcttcgctctaaagctgagca	Z80941
82295	ggcttcgctctaaagctgagcactt	Z80941
82296	ctaaagctgagcacttccgcctgcc	Z80941
82297	aagctgagcacttccgcctgcccag	Z80941
82298	ccccgctatcactacaagcaaaagt	Z80941
82299	tatcactacaagcaaaagtcatctg	Z80941
82300	aagtcatctggtttctacagaaggg	Z80941
82301	tcatctggtttctacagaagggacg	Z80941
82302	tggacttgggcttgctcttcctcag	Z80941
82303	ggacctatttttgccagacagtaga	Z80941
82304	cctatttttgccagacagtagaaca	Z80941
82305	aacacaattttgtccatactgtgcg	Z80941
82306	tcaaagaagccatccaaaagtgtga	AA103580
82307	aagccatccaaaagtgtgagtatat	AA103580
82308	tttatgtgtcatctctggccatcaa	AA103580
82309	atgtgtcatctctggccatcaaggg	AA103580
82310	tgtcatctctggccatcaagggttg	AA103580
82311	ctctggccatcaagggttgcagaaa	AA103580
82312	tggccatcaagggttgcagaaataa	AA103580
82313	gaaataatcctgcagttcctaaaat	AA103580
82314	ataatcctgcagttcctaaaatgca	AA103580
82315	cagttcctaaaatgcacaccaggat	AA103580
82316	ttcctaaaatgcacaccaggatgaa	AA103580

SEQ ID NO	sequence	DBAxnID
124853	tctgtagttcctgctgaagccctgc	M73760
124854	cctggtccctgagattccagaaggt	M73760
124855	ttcttacaagtcacagaatgttcct	M73760
124856	ccaccatcttcattaacctcaataa	M73760
124857	ttaacctcaataaagacccagattg	M73760
124858	caggctctagacctaactgcaagat	M73760
124859	caataaagacccagattgtcaactg	M73760
124860	ctagacctaactgcaagatgaaatg	M73760
124861	gcccaaggcattgcatcctatgtac	M73760
124862	ggcattgcatcctatgtacatcgga	M73760
124863	gtctttaccagaatctcccattaca	M73760
124864	accagaatctcccattacaggccct	M73760
124865	atctcccattacaggccctggatca	M73760
124866	cattacaggccctggatcaataaga	M73760
124867	tgataccttgatccagaacttgca	L04966
124868	tgatccagaacttgcagcaacaata	L04966
124869	gcattctatgttgttcatagaggca	L04966
124870	tgtacagtgtgcctttgaggagctt	L04966
124871	acagtgtgcctttgaggagcttgtt	L04966
124872	caagctgtcacacagggaagagagc	L04966
124873	ttactgctctgtgctataaactctg	L04966
124874	ctgctctgtgctataaactctggga	L04966
124875	ctctgtgctataaactctgggaatt	L04966
124876	aactctgggaattccatctcttgca	L04966
124877	atagtgacatctttctgtatataaa	L04966
124878	acatctttctgtatataaactctta	L04966
124879	tccagaacttgcagcaacaataggt	L04966
124880	agaacttgcagcaacaataggtgtt	L04966
124881	gttcagaacattaactcccagctat	L04966
124882	cagaacattaactcccagctattat	L04966
124883	aactcccagctattatagaggtgca	L04966
124884	gaaatttgcacgcaagcattctatg	L04966
124885	atttgcacgcaagcattctatgttg	L04966
124886	tgcacgcaagcattctatgttgttc	L04966
124887	gtatctcacgtaccctgagagaggt	M68899
124888	tatctcacgtaccctgagagaggta	M68899
124889	tgggcagttccacaaaggtggcatc	M68899
124890	gggcagttccacaaaggtggcatca	M68899
124891	cagttccacaaaggtggcatcagta	M68899
124892	gttccacaaaggtggcatcagtata	M68899
124893	ttccacaaaggtggcatcagtatac	M68899
124894	cctgacctgcgtgcatcagagtctt	M68899
124895	ctgacctgcgtgcatcagagtcttc	M68899
124896	gacctgcgtgcatcagagtcttcaa	M68899
124897	acctgcgtgcatcagagtcttcaag	M68899
124898	cgtgcatcagagtcttcaagccaga	M68899
124899	tctcacgtaccctgagagaggtaga	M68899
124900	cacgtaccctgagagaggtagaact	M68899
124901	acgtaccctgagagaggtagaactg	M68899
124902	ttacaaggatagcctccagatctgt	M68899
124903	caaggatagcctccagatctgtgtg	M68899
124904	aggatagcctccagatctgtgtggg	M68899
124905	ggatagcctccagatctgtgtgggc	M68899
124906	gcctccagatctgtgtgggcagttc	M68899
124907	cttaccactgtccaagggatcgctg	W36757
124908	ttaccactgtccaagggatcgctga	W36757
124909	ttgccgtgagtggtactgtaattga	W36757
124910	acgatattgccagtttcctgataga	W36757
124911	gatattgccagtttcctgatagagg	W36757
124912	atattgccagtttcctgatagagga	W36757
124913	tattgccagtttcctgatagaggat	W36757
124914	attgccagtttcctgatagaggatt	W36757
124915	ttgccagtttcctgatagaggattg	W36757
124916	tgccagtttcctgatagaggattgg	W36757
124917	gccagtttcctgatagaggattggg	W36757
124918	agtttcctgatagaggattggggct	W36757
124919	taccactgtccaagggatcgctgat	W36757
124920	accactgtccaagggatcgctgatg	W36757

TABLE 1

SEQ ID NO	sequence	DBAxnID
39713	gtggcttctagaaccatccttggga	L34290
39714	accatccttgggatgtgccggttat	L34290
39715	cttgggatgtgccggttatgtggac	L34290
39716	attcacttgtgatcgatggcagtct	L34290
39717	tcgatggcagtctaggctgagcatc	L34290
39718	ggccgtggcacttcaactggacctt	L34290
39719	aacaggttgccattcctagcacccg	L34290
39720	tcaactggaccttcaagcccttctg	L34290
39721	tcaagcccttctgtcatctcaaaaa	L34290
39722	ccttctgtcatctcaaaaactctgc	L34290
39723	tcaaaaactctgctaagttctgtct	L34290
39724	tgaaattattccagccaatggaatt	L34290
39725	tattccagccaatggaatttcacat	L34290
39726	ttccttggatctagtctgtcttcag	L34290
39727	cccgtatgcaggctccacagatgag	U02887
39728	gtatgcaggctccacagatgagaac	U02887
39729	gaccgctttcaatggcgagctcgag	U02887
39730	ggtccagttcgtcatcacggcccag	U02887
39731	gttcgtcatcacggcccaggagtgg	U02887
39732	caactttgaggaggccctgatggaa	U02887
39733	gccccaggcctgagtgtacacctgt	U02887
39734	agtgtacacctgtgtacgtgcagat	U02887
39735	cacctgtgtacgtgcagatgtgcac	U02887
39736	tgtgcacatgtatgcacaggcctga	U02887
39737	catgtatgcacaggcctgagtgcac	U02887
39738	tgcacaggcctgagtgcacacgtgt	U02887
39739	tgcaggctccacagatgagaacaca	U02887
39740	ggctgacctgccaatcccagagctc	U02887
39741	aatcccagagctcccagacttcttc	U02887
39742	gggcaaacacttcttcctgtatggc	U02887
39743	acacttcttcctgtatggcgagttc	U02887
39744	gaggctcatccgctacgtgaccgct	U02887
39745	catccgctacgtgaccgctttcaat	U02887
39746	ctacgtgaccgctttcaatggcgag	U02887
39747	gaagcaaggcctcctgtctatagca	U07890
39748	aggcctcctgtctatagcagcttcc	U07890
39749	taggccttcttcctgctagtgcatg	U07890
39750	ttcttcctgctagtgcatggagctc	U07890
39751	tgtgccaaccctaagagaatcaagt	U07890
39752	agactggccaaacctcattccctca	U07890
39753	tattctataccttgcaccactggt	U07890
39754	atacctttgcaccactggtggctga	U07890
39755	gcctgtgtagctgttctgcatgtga	U07890
39756	gttctgcatgtgaatgctgcatgtc	U07890
39757	gcatgtctggtccgggatttggatg	U07890
39758	ctggtccgggatttggatgttgcac	U07890
39759	tatagcagcttcctcagcttactac	U07890
39760	ctcagcttactactgccttaggagg	U07890
39761	ttactactgccttaggaggccctgc	U07890
39762	ccttcccttggcttgtccttgattg	U07890
39763	cttggcttgtccttgattggtgggt	U07890
39764	ttagtctgatcccattaagtgtttc	U07890
39765	tgatcccattaagtgtttctggggt	U07890
39766	ggtttataggccttcttcctgctag	U07890
39767	cagatcactggagccagtctatagt	U11688
39768	atcactggagccagtctatagtgca	U11688
39769	tgcacaggtgtctccagtgtgtcag	U11688
39770	acaggtgtctccagtgtgtcagcca	U11688
39771	gtgtcagccacttcttcctgttcat	U11688
39772	gccacttcttcctgttcatcccaga	U11688
39773	acttcttcctgttcatcccagacaa	U11688
39774	tcttcctgttcatcccagacaatag	U11688
39775	tgttcatcccagacaatagcaacta	U11688
39776	tcatcccagacaatagcaactaaag	U11688
39777	tcccagacaatagcaactaaagatg	U11688
39778	gttttaacaccttttggtgatgcag	U11688
39779	ctatagtgcacaaccaacagctgcc	U11688
39780	tgcacaaccaacagctgccaacagt	U11688

SEQ ID NO	sequence	DBAxnID
82317	ctaaaatgcacaccaggatgaaaac	AA103580
82318	caaactccaagcagtgatcggcaga	AA103580
82319	actccaagcagtgatcggcagaagt	AA103580
82320	cccttgcatcagcacaggtgagcga	AA103580
82321	ttgcatcagcacaggtgagcgagcc	AA103580
82322	catcagcacaggtgagcgagccttg	AA103580
82323	tgagcgagccttgcgaacaggtcac	AA103580
82324	gcgagccttgcgaacaggtcacagt	AA103580
82325	cttgcgaacaggtcacagtttatgt	AA103580
82326	tattctgccaaagcaaattgataca	U69695
82327	gttttaggacggtgggatgatgtct	U69695
82328	tctttcaacctacacatcctaactt	U69695
82329	ttcaacctacacatcctaacttatg	U69695
82330	ctacacatcctaacttatggactct	U69695
82331	atcctaacttatggactcttttgat	U69695
82332	tgttcatctttaccaaatgaaatgc	U69695
82333	tcatctttaccaaatgaaatgccaa	U69695
82334	aaagccactggctatgctgtatttt	U69695
82335	gccactggctatgctgtattttgat	U69695
82336	ttttacttctctggcaaaatacact	U69695
82337	ttctctggcaaaatacacttttgtt	U69695
82338	gatgtcttggcttatgcacttttcc	U69695
82339	gcttatgcacttttcccttactgtg	U69695
82340	ccttactgtgcatctgcctgacagt	U69695
82341	gcatctgcctgacagtgtttgttct	U69695
82342	ttctaaatacctcacttgccatgct	U69695
82343	taaatacctcacttgccatgctttg	U69695
82344	ttgccatgctttgtgtgggtgatca	U69695
82345	ccatgctttgtgtgggtgatcatgg	U69695
82346	gaagcaaatatccaggccctgctga	AA103475
82347	aagcaaatatccaggccctgctgaa	AA103475
82348	cgtgcagctgtcactacgcggcccg	AA103475
82349	tgcagctgtcactacgcggcccgcg	AA103475
82350	gcagctgtcactacgcggcccgcga	AA103475
82351	cggcccgcgagccatggattccttc	AA103475
82352	cccgcgagccatggattccttcggg	AA103475
82353	catggattccttcgggaatactttg	AA103475
82354	agcaaatatccaggccctgctgaag	AA103475
82355	gactccatcgtgcagctgtcactac	AA103475
82356	actccatcgtgcagctgtcactacg	AA103475
82357	ctccatcgtgcagctgtcactacgc	AA103475
82358	tccatcgtgcagctgtcactacgcg	AA103475
82359	ccatcgtgcagctgtcactacgcgg	AA103475
82360	catcgtgcagctgtcactacgcggc	AA103475
82361	atcgtgcagctgtcactacgcggcc	AA103475
82362	gatggaaaccctatcaacctcagca	D78274
82363	aacctcagcagaactcctcaagcct	D78274
82364	tatgccaactagtcatcaaatctca	D78274
82365	aactagtcatcaaatctcatcaaga	D78274
82366	tcatcaaatctcatcaagaattgta	D78274
82367	tcaaatctcatcaagaattgtaggt	D78274
82368	ttcactcatgtatgtttcccacctg	D78274
82369	actcatgtatgtttcccacctgatt	D78274
82370	catgtatgtttcccacctgattcag	D78274
82371	tgtttcccacctgattcagttaaga	D78274
82372	ttcccacctgattcagttaagagca	D78274
82373	ccacctgattcagttaagagcagaa	D78274
82374	agaactcctcaagcctacatgtgtc	D78274
82375	caagcctacatgtgtctacctcgtt	D78274
82376	gcctacatgtgtctacctcgtttgc	D78274
82377	tacatgtgtctacctcgtttgccca	D78274
82378	tgatgctttctgtagccaagagaag	D78274
82379	gcatatatctcttcagaagcaaact	D78274
82380	atctcttcagaagcaaactcagtat	D78274
82381	tcttcagaagcaaactcagtatatt	D78274
82382	cccggtgcaccacgaaaagctcgat	AA103612
82383	gcaccacgaaaagctcgatccaggc	AA103612
82384	gaggccacctgcgccatctgcctgg	AA103612

SEQ ID NO	sequence	DBAxnID
124921	cactgtccaagggatcgctgatgag	W36757
124922	actgtccaagggatcgctgatgagt	W36757
124923	ctgtccaagggatcgctgatgagta	W36757
124924	gaaatttgccgtgagtggtactgta	W36757
124925	aatttgccgtgagtggtactgtaat	W36757
124926	atttgccgtgagtggtactgtaatt	W36757
124927	atcatcagataggtccgtcaacatt	W36745
124928	ggtccgtcaacattttcgatggtgc	W36745
124929	agggcaatgctcatcgcagacctca	W36745
124930	gggcaatgctcatcgcagacctcag	W36745
124931	ggcaatgctcatcgcagacctcaga	W36745
124932	cagtatgcatagtggcctggagcta	W36745
124933	agtatgcatagtggcctggagctag	W36745
124934	gtatgcatagtggcctggagctaga	W36745
124935	atgcatagtggcctggagctagacc	W36745
124936	tgcatagtggcctggagctagacca	W36745
124937	catagtggcctggagctagaccatg	W36745
124938	agctagaccatgtatggcaatatcc	W36745
124939	gtccgtcaacattttcgatggtgcg	W36745
124940	tccgtcaacattttcgatggtgcgg	W36745
124941	cgtcaacattttcgatggtgcggaa	W36745
124942	gtcaacattttcgatggtgcggaat	W36745
124943	tcaacattttcgatggtgcggaatg	W36745
124944	aacattttcgatggtgcggaatgga	W36745
124945	acattttcgatggtgcggaatggag	W36745
124946	cattttcgatggtgcggaatggagg	W36745
124947	gaaccgcatcatcacagcagaaggg	M31773
124948	catcatcacagcagaagggatcatc	M31773
124949	agatgcccagctggaaaagccatga	M31773
124950	tccctgcctgccatatgtctgactc	M31773
124951	atatgtctgactccagcatccctgc	M31773
124952	atgagcccttaatcgctgcctctag	M31773
124953	tcgctgcctctaggggagctgatta	M31773
124954	ctgattacagcatcctcgttagtgt	M31773
124955	acagcatcctcgttagtgtcacccc	M31773
124956	ctcccagatctgtcatggccactta	M31773
124957	gatctgtcatggccacttaagtgat	M31773
124958	tcatggccacttaagtgataataaa	M31773
124959	gatcatcttgctgttctgtgcagtg	M31773
124960	cttgctgttctgtgcagtggtgcca	M31773
124961	ctatgagggcctgaaccttgatgac	M31773
124962	gggcctgaaccttgatgactgttct	M31773
124963	gaaccttgatgactgttctatgtat	M31773
124964	gggcacctaccaggatgtgggcaac	M31773
124965	cctccacattggagatgcccagctg	M31773
124966	cattggagatgcccagctggaaaag	M31773
124967	tgacccaaactgcggccctgatgat	W36773
124968	aaggagctccaggcatgccggaaag	W36773
124969	tggtacatcaacatcttctgaccag	W36773
124970	ggtacatcaacatcttctgaccagt	W36773
124971	tacatcaacatcttctgaccagtgg	W36773
124972	acatcaacatcttctgaccagtggg	W36773
124973	catcaacatcttctgaccagtgggg	W36773
124974	atcaacatcttctgaccagtgggga	W36773
124975	caacatcttctgaccagtggggacg	W36773
124976	aacatcttctgaccagtggggacgt	W36773
124977	acatcttctgaccagtggggacgtg	W36773
124978	catcttctgaccagtggggacgtga	W36773
124979	gagctccaggcatgccggaaagagc	W36773
124980	agctccaggcatgccggaaagagcg	W36773
124981	gctccaggcatgccggaaagagcgc	W36773
124982	ctccaggcatgccggaaagagcgca	W36773
124983	acgctgacaccctgcagtctgaggg	W36773
124984	cgctgacaccctgcagtctgagggc	W36773
124985	tgtggtacatcaacatcttctgacc	W36773
124986	gtggtacatcaacatcttctgacca	W36773
124987	agacgggccttgcatctacaataat	AA032860
124988	cgggccttgcatctacaataatcta	AA032860

TABLE 1

SEQ ID NO	sequence	DBAxnID
39781	acaaccaacagctgccaacagtggg	U11688
39782	accaacagctgccaacagtgggatg	U11688
39783	tgggatgcctcctagaactgtgcag	U11688
39784	gatgcctcctagaactgtgcaggtg	U11688
39785	gcctcctagaactgtgcaggtgcaa	U11688
39786	agtgtcttggtgtgcacaggtgtct	U11688
39787	tttcgtaggtcgatcgcctgtcagc	AA014575
39788	cgtaggtcgatcgcctgtcagcttt	AA014575
39789	ggattccttactagaagacaacaat	AA014575
39790	caacaatcacaagtcacaggtagac	AA014575
39791	gtcacaggtagacactcaagaccaa	AA014575
39792	cactcaagaccaagccaggagattg	AA014575
39793	tcaagaccaagccaggagattggca	AA014575
39794	agaccaagccaggagattggcagag	AA014575
39795	agtggtgacagccatcagtgctggc	AA014575
39796	ggtgacagccatcagtgctggccca	AA014575
39797	cagtgctggcccaaggactctaaat	AA014575
39798	tgctggcccaaggactctaaatttc	AA014575
39799	aggtcgatcgcctgtcagctttcca	AA014575
39800	tgtcagctttccagagtattggctc	AA014575
39801	ttggctcttccaccagaaagcttga	AA014575
39802	gctcttccaccagaaagcttgatca	AA014575
39803	atcaagtcaatatctgctgttccag	AA014575
39804	aagtcaatatctgctgttccagttt	AA014575
39805	tcaatatctgctgttccagtttcaa	AA014575
39806	tcagctttcggtggattccttacta	AA014575
39807	cacccaagatctttgtggcacacag	U28151
39808	ttgtcattctcagtgcccacaagct	U28151
39809	agctaggccacagcactcagcagtt	U28151
39810	gcgtcctgggccagctagctgctgc	U28151
39811	agctagctgctgcctgagagcagag	U28151
39812	cgatgctctgagctacccagcattc	U28151
39813	tctgagctacccagcattcattcct	U28151
39814	agcattcattcctcttgaaaacgga	U28151
39815	tcttgaaaacggagctcctgcaggt	U28151
39816	gacaggtaaccccagctctgccttg	U28151
39817	tgccttgggcctggtgccctcaact	U28151
39818	ctcaactgtccagggatttgtacat	U28151
39819	ttctcagtgcccacaagcttgtgtt	U28151
39820	gggacacactgtcacggcaggcaaa	U28151
39821	ctgatgtccgaagccaagtgaccca	U28151
39822	gccaagtgacccactacagcaatct	U28151
39823	tgacccactacagcaatctgctgtg	U28151
39824	gcaatctgctgtgtgacctcctgcg	U28151
39825	cttccgctgcccaggacatggtgga	U28151
39826	ctgcccaggacatggtggacagggt	U28151
39827	ttaagttctgccaagccatagatgc	AA014373
39828	agttctgccaagccatagatgccat	AA014373
39829	tcgccatccaactcacagagagcat	AA014373
39830	cagagagcatcgcgctcttccacag	AA014373
39831	ccatcctgtatgtcttcatgggggc	AA014373
39832	tgtatgtcttcatgggggcctcctt	AA014373
39833	atgtcttcatgggggcctccttcaa	AA014373
39834	gggcctccttcaaaaactatatcat	AA014373
39835	cctccttcaaaaactatatcatgaa	AA014373
39836	cttttgattctgagggtcctacaga	AA014373
39837	gtcctacagagccaaccagttcttt	AA014373
39838	cagagccaaccagttcttttaccat	AA014373
39839	gccaagccatagatgccatctacct	AA014373
39840	ccatagatgccatctacctgctgat	AA014373
39841	ccatctacctgctgatcaccagctg	AA014373
39842	tctacctgctgatcaccagctgcga	AA014373
39843	tgctgatcaccagctgcgatatgag	AA014373
39844	tcaccagctgcgatatgagcaaacg	AA014373
39845	gcatggatgtcgccatccaactcac	AA014373
39846	atgtcgccatccaactcacagagag	AA014373
39847	agagacatgtcccagatttctgttt	U28807
39848	cagatttctgtttcccaagccacgg	U28807

SEQ ID NO	sequence	DBAxnID
82385	tgcgccatctgcctggattacttca	AA103612
82386	gccatctgcctggattacttcaccg	AA103612
82387	atctgcctggattacttcaccgacc	AA103612
82388	ccggtgatgaccgactgcggccaca	AA103612
82389	cacaacttctgccgcgagtgcatcc	AA103612
82390	aacttctgccgcgagtgcatccgac	AA103612
82391	cgcgagtgcatccgacgttgctggg	AA103612
82392	gagtgcatccgacgttgctggggcc	AA103612
82393	atccgacgttgctggggccagcccg	AA103612
82394	ccacgaaaagctcgatccaggcgca	AA103612
82395	cgaaaagctcgatccaggcgcagac	AA103612
82396	gctcgatccaggcgcagacgcagca	AA103612
82397	cgatccaggcgcagacgcagcacca	AA103612
82398	tccaggcgcagacgcagcaccatgg	AA103612
82399	agacgcagcaccatggctgccccag	AA103612
82400	accatggctgccccagacttgtcca	AA103612
82401	atggctgccccagacttgtccacca	AA103612
82402	ctcaggcatgcaacagcacattctt	U42190
82403	aggcatgcaacagcacattctttgg	U42190
82404	catatggcatgcatggtagaaaatg	U42190
82405	gagactattactttcctctataaat	U42190
82406	gcttgtcctaagagctatggcttta	U42190
82407	tgtcctaagagctatggctttaatg	U42190
82408	aatgcagcaaggcttgctaatcttc	U42190
82409	cagtcattacggctatttcggggag	U42190
82410	gaagctatccataggctgctggcct	U42190
82411	gctatccataggctgctggccttga	U42190
82412	aggctgctggccttgattaacggat	U42190
82413	ctgctggccttgattaacggattgt	U42190
82414	gcaacagcacattctttggtacttg	U42190
82415	agaggcaccgcaacttttgatggga	U42190
82416	ggcaccgcaacttttgatgggacag	U42190
82417	gcgatagccagtgcggttgttaaag	U42190
82418	tgtcgaacactgttttctacacact	U42190
82419	tctacacactatcattcattagtag	U42190
82420	cactatcattcattagtagaagatt	U42190
82421	tgtgtgcgcctaggacatatggcat	U42190
82422	tgcgccgtgacgtacagcatgtatc	AA103644
82423	acgtacagcatgtatcacagcagca	AA103644
82424	cgcaaccgcaaattcaagtgcaaag	AA103644
82425	aaccgcaaattcaagtgcaaagctg	AA103644
82426	aaggttcttccaaatgatccagtgt	AA103644
82427	gttcttccaaatgatccagtgtttc	AA103644
82428	cttccaaatgatccagtgtttctgg	AA103644
82429	gatccagtgtttctggagcctcatg	AA103644
82430	ccagtgtttctggagcctcatgaag	AA103644
82431	gtgtttctggagcctcatgaagaat	AA103644
82432	tttctggagcctcatgaagaattga	AA103644
82433	ttgacactttgcaagtactatgaaa	AA103644
82434	agcatgtatcacagcagcagccaga	AA103644
82435	atgtatcacagcagcagccagaaac	AA103644
82436	agcagccagaaacggcactggacct	AA103644
82437	aaacggcactggaccttcgctagcg	AA103644
82438	cggcactggaccttcgctagcgagg	AA103644
82439	tggaccttcgctagcgaggagcagc	AA103644
82440	ggcggacgcaaccgcaaattcaagt	AA103644
82441	ggacgcaaccgcaaattcaagtgca	AA103644
82442	gccacgcgtccggtgagacagaggc	AA103647
82443	cacgcgtccggtgagacagaggcaa	AA103647
82444	gccctgacgctgtgtgtcaccaaag	AA103647
82445	tagacatggaggccctggaacgcat	AA103647
82446	gacatggaggccctggaacgcatgt	AA103647
82447	gaggccctggaacgcatgttccgtt	AA103647
82448	ctggaacgcatgttccgttacctga	AA103647
82449	cgcatgttccgttacctgaaatttg	AA103647
82450	accgcccagcaatttctggaagagt	AA103647
82451	cgcccagcaatttctggaagagttg	AA103647
82452	cccagcaatttctggaagagttgga	AA103647

SEQ ID NO	sequence	DBAxnID
124989	gctgaagctgctaaccggagagcctt	AA032860
124990	gctgctaaccggagagcttctgcct	AA032860
124991	gctaaccggagagcttctgcctaca	AA032860
124992	aaccggagagcttctgcctacagat	AA032860
124993	gcttctgcctacagatggaatgatc	AA032860
124994	tctgcctacagatggaatgatccgg	AA032860
124995	gatccggaagcattctcatgtcaag	AA032860
124996	gaagcattctcatgtcaagataggg	AA032860
124997	gcattctcatgtcaagatagggcgt	AA032860
124998	ttctcatgtcaagataggcgttac	AA032860
124999	gccttgcatctacaataatctagaa	AA032860
125000	agggcgttaccatcagcacttacag	AA032860
125001	tcttgacacacgagtggctctggta	AA032860
125002	tgacacacgagtggctctggtagga	AA032860
125003	agtggctctggtaggacccaatgga	AA032860
125004	ggctctggtaggacccaatggagca	AA032860
125005	tctggtaggacccaatggagcaggg	AA032860
125006	agggaagtccactctgctgaagctg	AA032860
125007	gaagtccactctgctgaagctgcta	AA032860
125008	tatgactacgagggagatggctctg	M74541
125009	tttgctcggctggcggacatgtatg	M74541
125010	agtgcagaagccacccttagtgccc	M74541
125011	gaagccacccttagtgccctgctag	M74541
125012	acccttagtgccctgctagggctca	M74541
125013	ctgctagggctcatcccatctttga	M74541
125014	gggctcatcccatctttgattccca	M74541
125015	atcccatctttgattcccagttgtg	M74541
125016	tctttgattcccagttgtgactctt	M74541
125017	attcccagttgtgactcttgcctct	M74541
125018	agttgtgactcttgcctctgtatga	M74541
125019	gactcttgcctctgtatgaaaagca	M74541
125020	cggctggcggacatgtatggacatc	M74541
125021	tctctcttgggatgtgcacccagaa	M74541
125022	tgtgcacccagaaatcctatgaggg	M74541
125023	aatcctatgagggtcaacagcatgg	M74541
125024	gtcaacagcatggcccatccttggc	M74541
125025	agcatggcccatccttggctccatg	M74541
125026	ccttggctccatggcagataaactc	M74541
125027	tggactaggcagctagagggagcac	M74541
125028	ccttccgtctctttgagtccaagat	M17440
125029	tctttgagtccaagatcacccaagt	M17440
125030	cctccataggtcagacccgcaacttt	M17440
125031	gaggccttaggactctggctctctg	M17440
125032	gccttaggactctggctctctgagc	M17440
125033	ttaggactctggctctctgagctca	M17440
125034	tggctctctgagctcagctcagggt	M17440
125035	ctctctgagctcagctcagggttag	M17440
125036	ttagggcctcactggattagaggct	M17440
125037	gggcctcactggattagaggctctg	M17440
125038	attagaggctctgctctacagggta	M17440
125039	ggctctgctctacagggtaaataaa	M17440
125040	ttgagtccaagatcacccaagtcct	M17440
125041	ccaagatcacccaagtcctgcattt	M17440
125042	agatcacccaagtcctgcatttcag	M17440
125043	tcacccaagtcctgcatttcagaaa	M17440
125044	aagtcctgcatttcagaaaggacac	M17440
125045	gaaaggacaccatggcctccatagg	M17440
125046	aggacaccatggcctccataggtca	M17440
125047	tggcctccataggtcagacccgcaa	M17440
125048	atgactaactttgcctttgagctag	AA008590
125049	gactaactttgcctttgagctagac	AA008590
125050	ctcagccaagactagcgtgacgagt	AA008590
125051	caagactagcgtgacgagtgtcacc	AA008590
125052	ggcaagcgcatccccttctttaaga	AA008590
125053	ccctatgacgtggtgccttccatga	AA008590
125054	ctatgacgtggtgccttccatgagg	AA008590
125055	tggtgccttccatgaggcccatcat	AA008590
125056	gtgccttccatgaggcccatcatcc	AA008590

TABLE 1

SEQ ID NO	sequence	DBAxnID
39849	taagccacaggcagattgtgtaaaa	U28807
39850	acaggaacagcagcggctgtttcag	U28807
39851	acagcagcggctgtttcagctgtgg	U28807
39852	gcggctgtttcagctgtgggaaacg	U28807
39853	gtttcagctgtgggaaacgagcttt	U28807
39854	atgcagcaggctctatctcagaggt	U28807
39855	caggctctatctcagaggtgctgct	U28807
39856	tcttgcaggtgacctggttgcatag	U28807
39857	tactgctttctggtcatttgaagag	U28807
39858	tgaagagccctttagttttgatgat	U28807
39859	gatctgatgacctctcacagtgctc	U28807
39860	tctcacagtgctcagtgagcctttt	U28807
39861	gaacttaaggtccagccagacttca	U28807
39862	cagccagacttcaggatctgttgca	U28807
39863	gacttcaggatctgttgcaggagtt	U28807
39864	aggatctgttgcaggagttggactc	U28807
39865	tggactcactgtgggaaaagcagcg	U28807
39866	tctccttaagccacaggcagattgt	U28807
39867	ctacctggtttatattctcaatgaa	AA166521
39868	ttatattctcaatgaactggctgga	AA166521
39869	gagaacagctttgctgctccgaaat	AA166521
39870	agctttgctgctccgaaatctcggg	AA166521
39871	tttgctgctccgaaatctcgggttc	AA166521
39872	gctgctccgaaatctcgggttcact	AA166521
39873	gctccgaaatctcgggttcactgcc	AA166521
39874	tcagagcaagcgcctcggatccctt	AA166521
39875	caagcgcctcggatcccttaataag	AA166521
39876	gaggtccattcttctagcgactgat	AA166521
39877	gtccattcttctagcgactgatgtc	AA166521
39878	cattcttctagcgactgatgtccca	AA166521
39879	tattctcaatgaactggctggaaac	AA166521
39880	tcttctagcgactgatgtcccagca	AA166521
39881	tctcaatgaactggctggaaactcc	AA166521
39882	ctcctttatgatattctgcagcacc	AA166521
39883	tatgatattctgcagcacctgtaac	AA166521
39884	gatattctgcagcacctgtaacaac	AA166521
39885	cacctgtaacaacactcagagaaca	AA166521
39886	ctgtaacaacactcagagaacagct	AA166521
39887	caacactcagagaacagctttgctg	AA166521
39888	gagcactgccaacaaactagtccgt	AA014656
39889	gcactgccaacaaactagtccgtcg	AA014656
39890	cgtgccaacgcatctcggcgtaaac	AA014656
39891	tgccaacgcatctcggcgtaaactc	AA014656
39892	cgcatctcggcgtaaactccaaagg	AA014656
39893	acgacgccactgaggccaatgaagg	AA014656
39894	gacgccactgaggccaatgaaggcc	AA014656
39895	cgcgaggtcagcactctcaagaacc	AA014656
39896	aggtcagcactctcaagaaccggct	AA014656
39897	gtcagcactctcaagaaccggctca	AA014656
39898	cagcactctcaagaaccggctcagg	AA014656
39899	gcactctcaagaaccggctcaggcg	AA014656
39900	caaactagtccgtcgaacagagaag	AA014656
39901	aatcttcatgcaggttgaagacgag	AA014656
39902	gcgtcggcatgcggatcagtataag	AA014656
39903	gaagaggccacacgtgccaacgcat	AA014656
39904	agaggccacacgtgccaacgcatct	AA014656
39905	aggccacacgtgccaacgcatctcg	AA014656
39906	cacacgtgccaacgcatctcggcgt	AA014656
39907	cacgtgccaacgcatctcggcgtaa	AA014656
39908	gtttgctacatcccagtctggacac	U33198
39909	tacatcccagtctggacactactca	U33198
39910	catctgttgtcttccggccggatga	U33198
39911	aagcaaccacagtctacactaagcc	U33198
39912	ccacagtctacactaagcctgaaga	U33198
39913	tctacactaagcctgaagacctgac	U33198
39914	ctaagcctgaagacctgacagcata	U33198
39915	atgagtattctgtcctgggcaggag	U33198
39916	attctgtcctgggcaggagcatcct	U33198

SEQ ID NO	sequence	DBAxnID
82453	atttcagcagaccatagataattgg	AA103647
82454	cgcgtccggtgagacagaggcaaaa	AA103647
82455	tgagtgatcctcagccattgcagga	AA103647
82456	agtgatcctcagccattgcaggagg	AA103647
82457	tgatcctcagccattgcaggaggaa	AA103647
82458	cctcagccattgcaggaggaaagat	AA103647
82459	tcagccattgcaggaggaaagatat	AA103647
82460	tatgatatgtcaggtgcccgcctgg	AA103647
82461	atatgtcaggtgcccgcctggccct	AA103647
82462	gatcagagctctcctgttcttttgg	D45850
82463	agctctcctgttcttttggataatc	D45850
82464	gaccatcctgattttccattttggg	D45850
82465	tactaactggaggtccattttgtgc	D45850
82466	gtccattttgtgccttgtgccagat	D45850
82467	tttgtgccttgtgccagatgtcact	D45850
82468	gccagatgtcactgcattggaagag	D45850
82469	tgattacatatcaccctaatccaag	D45850
82470	catatcaccctaatccaagcttctg	D45850
82471	atccaagcttctgagcaattctggc	D45850
82472	gagcaattctggctctgctgaatct	D45850
82473	tgtatatttctcctttctaagaaat	D45850
82474	gataatccagttcttggctcaatgg	D45850
82475	ccagttcttggctcaatggcaaaaa	D45850
82476	actcctgcgctgattgcccttcgct	D45850
82477	cttcgctaccagctacaacgtgggg	D45850
82478	taccagctacaacgtggggttgtgg	D45850
82479	gtcctcgccaagagtttctctgaga	D45850
82480	atgaaagtcctcgatgacctgaata	D45850
82481	tttaaggaccatcctgattttccat	D45850
82482	ctcatgacagacaagggctgtgtaa	AA103691
82483	cagctgattttggcctggctcgggc	AA103691
82484	tcccagggcctcaagtcttctggcc	AA103691
82485	ccagggcctcaagtcttctggccct	AA103691
82486	agggcctcaagtcttctggccctgg	AA103691
82487	ggcctcaagtcttctggccctggag	AA103691
82488	cctcaagtcttctggccctggaggt	AA103691
82489	tcaagtcttctggccctggaggtca	AA103691
82490	aagtcttctggccctggaggtcagc	AA103691
82491	tggccctggaggtcagccctggtca	AA103691
82492	tagagagcctgactgcagcatccaa	AA103691
82493	gagcctgactgcagcatccaaggag	AA103691
82494	ctctggtaccgagccccagagctgc	AA103691
82495	taccgagccccagagctgctgcttg	AA103691
82496	ccgagccccagagctgctgcttgga	AA103691
82497	accagcattgacatgtggtaggcgt	AA103691
82498	gcattgacatgtggtaggcgtggtt	AA103691
82499	attgacatgtggtaggcgtggtttc	AA103691
82500	tgacatgtggtaggcgtggtttctg	AA103691
82501	gctcccagggcctcaagtcttctgg	AA103691
82502	tcagtgggtgcccgtgattaatctc	L28177
82503	tgcccgtgattaatctcccggaacg	L28177
82504	tcaactgcacgagggctcagagatg	L28177
82505	ctttcaaataagccaaatattgctt	L28177
82506	ttcaaataagccaaatattgctttg	L28177
82507	taatcatattttcaagccacagttt	L28177
82508	atcatattttcaagccacagtttaa	L28177
82509	catattttcaagccacagtttaaat	L28177
82510	tattttcaagccacagtttaaatgt	L28177
82511	ttttcaagccacagtttaaatgtat	L28177
82512	ttcaagccacagtttaaatgtattt	L28177
82513	ttttgaagcacattatctaaaataa	L28177
82514	actgaaccaaattgcactgaagttt	L28177
82515	tgaaccaaattgcactgaagttttg	L28177
82516	tacctttgtagttactcaagcagtc	L28177
82517	tttgtagttactcaagcagtcactc	L28177
82518	tgtagttactcaagcagtcactccc	L28177
82519	ccgagttcaactgcacgagggctca	L28177
82520	gagttcaactgcacgagggctcaga	L28177

SEQ ID NO	sequence	DBAxnID
125057	cttccatgaggcccatcatcctggt	AA008590
125058	catgaggcccatcatcctggtggga	AA008590
125059	ggaccgtcgctcaagggctatgagg	AA008590
125060	ttgcctttgagctagacccccctaga	AA008590
125061	accgtcgctcaagggctatgaggtg	AA008590
125062	gcctttgagctagacccccctagagt	AA008590
125063	gagctagacccccctagagttagagg	AA008590
125064	gctagacccccctagagttagaggag	AA008590
125065	agcacggcggctcagccaagactag	AA008590
125066	cggcggctcagccaagactagcgtg	AA008590
125067	gcggctcagccaagactagcgtgac	AA008590
125068	ggctcagccaagactagcgtgacga	AA008590
125069	ctgcaagtcaacactctcccactaa	M93264
125070	aactttgacaaggcagaggatcaca	M93264
125071	ctccaagaccagcctaacattcaga	M93264
125072	gaccagcctaacattcagaggactg	M93264
125073	cctaacattcagaggactgaagtga	M93264
125074	gaagtgaacaccaaccatgttctaa	M93264
125075	aacaccaaccatgttctaatctaca	M93264
125076	aaccatgttctaatctacattgaaa	M93264
125077	ttctccttcgcggtggaacaagaca	M93264
125078	gaattcaccgttgaagaatacagtg	M93264
125079	tacagtgccccttttcagtgatggct	M93264
125080	gatgtcctcagaaggactcctccac	M93264
125081	gatcacagaacattccagattcgca	M93264
125082	agaacattccagattcgcatcaacg	M93264
125083	ttccagattcgcatcaacgtaagct	M93264
125084	gtaagctacactggagaacgaccca	M93264
125085	tacactggagaacgacccagctcca	M93264
125086	ggagaacgacccagctccaacatgg	M93264
125087	ttcatacctatgaagccatccgtga	M93264
125088	aagccatccgtgaaaaggctccaag	M93264
125089	cagcagcagcagcatcctaacttat	X07295
125090	cagcagcagcatcctaacttattca	X07295
125091	atctcttccaaattatgtctggtct	X07295
125092	tccaaattatgtctggtctgttgat	X07295
125093	ttatgtctggtctgttgataatgac	X07295
125094	tgtctggtctgttgataatgacagt	X07295
125095	ttttcaaggtctctgtagatttcct	X07295
125096	ctgtagatttccttttccatcagct	X07295
125097	tagatttccttttccatcagctcac	X07295
125098	atttccttttccatcagctcactaa	X07295
125099	ttttccatcagctcactaatcagga	X07295
125100	tccatcagctcactaatcaggaaat	X07295
125101	cagcagcatcctaacttattcagca	X07295
125102	catcctaacttattcagcatcatgt	X07295
125103	cctaacttattcagcatcatgtctt	X07295
125104	aacttattcagcatcatgtctttgg	X07295
125105	atcatgtctttggaaccacttgaga	X07295
125106	tctttggaaccacttgagaatctag	X07295
125107	agcatcagcatctcttccaaattat	X07295
125108	atcagcatctcttccaaattatgtc	X07295
125109	cttctgaggcatgtggccagccgcc	AA080218
125110	catgtggccagccgccatcaagagg	AA080218
125111	ggctacaagttcacgcggcaggctc	AA080218
125112	aagttcacgcggcaggctcacctgc	AA080218
125113	caggctcacctgcggaggcacatgg	AA080218
125114	gctcacctgcggaggcacatggaga	AA080218
125115	cacctgcggaggcacatggagatcc	AA080218
125116	cacatggagatccacgacagagtgg	AA080218
125117	atccacgacagagtggagaactaca	AA080218
125118	aactcgcggaacctcatcattgagg	AA080218
125119	cggaacctcatcattgaggatgaga	AA080218
125120	aacctcatcattgaggatgagaaga	AA080218
125121	gtggccagccgccatcaagagggca	AA080218
125122	cacttctgccagatctgtggcaaga	AA080218
125123	ttctgccagatctgtggcaagacct	AA080218
125124	atctgtggcaagaccttcaaagctg	AA080218

TABLE 1

SEQ ID NO	sequence	DBAxnID
39917	gcatcctgaatgtatcaggtacagg	U33198
39918	cctgtttgtcttcagtgtctccctc	U33198
39919	tgtcttcagtgtctccctcatcttc	U33198
39920	ccagtctggacactactcaaaatac	U33198
39921	acacaggcgagtcaggtgggacaca	U33198
39922	acatcggatgactgcagagaggcca	U33198
39923	aggccagctgacagcccctggaaga	U33198
39924	gaaggtcccaggacacatgggaatg	U33198
39925	aattcacatttgcttgctaacctgc	U33198
39926	cttgctaacctgctaccctaagaag	U33198
39927	ctaccctaagaagtgccttgccctg	U33198
39928	agcctaaacagagacccgcggctga	
39929	gcctaaacagagacccgcggctgac	
39930	ctcagcaaacttacttgcatttttа	
39931	tcagcaaacttacttgcatttttaa	
39932	ttttaaaacagttcgtgctattgat	
39933	attttcagcaaggaatgtggattca	
39934	tctcctctgaatggggtgaaaacca	
39935	ccacgtttctcagcaaacttacttg	
39936	cacgtttctcagcaaacttacttgc	
39937	acgtttctcagcaaacttacttgca	
39938	cgtttctcagcaaacttacttgcat	
39939	gtttctcagcaaacttacttgcatt	
39940	tttctcagcaaacttacttgcattt	
39941	ttctcagcaaacttacttgcatttt	
39942	tctcagcaaacttacttgcattttt	
39943	gcctaaacagagacccgcggctgac	
39944	ccacgtttctcagcaaacttacttg	
39945	gattcagaattgtctgccctccaca	
39946	attcagaattgtctgccctccacaa	
39947	ttcagaattgtctgccctccacaat	
39948	cagaattgtctgccctccacaatga	
39949	ctgccctccacaatgaaaagaaggt	
39950	tgccctccacaatgaaaagaaggtg	
39951	actgcttcgtgtttgtttttctgtg	
39952	ctgcttcgtgtttgtttttctgtgg	
39953	tatttttcttcagtatttgaagtat	
39954	tctcctctgaatggggtgaaaacca	
39955	acgtttctcagcaaacttacttgca	
39956	cgtttctcagcaaacttacttgcat	
39957	gtttctcagcaaacttacttgcatt	
39958	ttctcagcaaacttacttgcatttt	
39959	tctcagcaaacttacttgcattttt	
39960	ctcagcaaacttacttgcatttttа	
39961	ttttaaaacagttcgtgctattgat	
39962	attttcagcaaggaatgtggattca	
39963	tccttccgtcatcgtgcagcctggg	U36340
39964	cgtcatcgtgcagcctgggaagaga	U36340
39965	gagacatttccgaaaacacactggg	U36340
39966	gatcaaacctttccagtgtccagac	U36340
39967	acctttccagtgtccagactgtgac	U36340
39968	ccagtgtccagactgtgaccgaagc	U36340
39969	tccagactgtgaccgaagcttctct	U36340
39970	cctacacaggaaacgccacatgcta	U36340
39971	acgccacatgctagtctgaaaacct	U36340
39972	catgctagtctgaaaacctgtctcc	U36340
39973	agtctgaaaacctgtctccagctca	U36340
39974	tgtctccagctcacacactaagggg	U36340
39975	gaagagacctctacctgtggaatcc	U36340
39976	tacccaaaggaagcgcaggatacac	U36340
39977	gatacacagatgcgactatgatggg	U36340
39978	ctacactaagagctcgcacttgaaa	U36340
39979	taagagctcgcacttgaaagcacac	U36340
39980	agcacacagaagaactcatacagga	U36340
39981	gccgtacaaatgcacctgggaaggc	U36340
39982	caaatgcacctgggaaggctgcacg	U36340
39983	ctcccagactcagatgagacactac	U41805
39984	catagttgggtccttagcagtggcc	U41805

SEQ ID NO	sequence	DBAxnID
82521	gttcaactgcacgagggctcagaga	L28177
82522	taaagaattacgcttgcctttgtcg	D63902
82523	gttctcggaatttcctgagaggatg	D63902
82524	caatccagctccagttgagacctag	D63902
82525	agctccagttgagacctagtgcaat	D63902
82526	gacctagtgcaatttccctgcagat	D63902
82527	tttccctgcagatgaacacatagct	D63902
82528	tgaacacatagctgtgctttagact	D63902
82529	catagctgtgctttagactgatgca	D63902
82530	ttagactgatgcacccgtgtcctgt	D63902
82531	acccgtgtcctgtgatggcaggaca	D63902
82532	gctgtgtgctcgagacccatctaga	D63902
82533	tgctcgagacccatctagacctcgc	D63902
82534	ggaatttcctgagaggatggagtgc	D63902
82535	ttatttgtctgccttgtgcctgaca	D63902
82536	gtctgccttgtgcctgacacagcgg	D63902
82537	cttgtgcctgacacagcggaattta	D63902
82538	agagatgacccagcatggtagctag	D63902
82539	tagctagccactaccagcttggtga	D63902
82540	gttgaggccagccaagacttctgtg	D63902
82541	gccagccaagacttctgtgactcct	D63902
82542	tccgttagctgcagaaggctgaggc	AA108041
82543	ccccacgtgaagcagttgtgcgagc	AA108041
82544	tgatctgctcgatctccaatgaagc	AA108041
82545	tctccaatgaagcgctcagagcacc	AA108041
82546	ccaatgaagcgctcagagcaccgat	AA108041
82547	caccgatgcgtgtccctgtctctaa	AA108041
82548	cgatgcgtgtccctgtctctaatca	AA108041
82549	tgcgtgtccctgtctctaatcatgt	AA108041
82550	ctgtctctaatcatgtgtatgagcg	AA108041
82551	tctctaatcatgtgtatgagcggcg	AA108041
82552	atcatgtgtatgagcggcgactcat	AA108041
82553	tgtatgagcggcgactcattgagaa	AA108041
82554	accctctgtgaggcgactggcagca	AA108041
82555	agcggcgactcattgagaagtacat	AA108041
82556	agcagcgctacgacggcgccatgtc	AA108041
82557	agcgctacgacggcgccatgtccct	AA108041
82558	gctacgacggcgccatgtccctgat	AA108041
82559	acggcgccatgtccctgatctgctc	AA108041
82560	gcgccatgtccctgatctgctcgat	AA108041
82561	ccatgtccctgatctgctcgatctc	AA108041
82562	ccctgatctgctcgatctccaatga	AA108041
82563	ctcttcttgactgcaatgcgagccc	X89627
82564	gcccgaatgcgcacagaggatccca	X89627
82565	gaatgtgcaatccctagggtggcat	X89627
82566	gcaatccctagggtggcatctgaat	X89627
82567	aattcatgttaccagcaaaagatct	X89627
82568	aagatctaagccagcatctcttttt	X89627
82569	tttcactatgtagccctgtgttgcc	X89627
82570	tatgtagccctgtgttgccagtaac	X89627
82571	gccctgtgttgccagtaactcataa	X89627
82572	tgttgccagtaactcataaagaccc	X89627
82573	cacacttctcagaatcatttgaaat	X89627
82574	tgatatccaaggtgctaggctaagg	X89627
82575	acagaggatcccagtggcagcagct	X89627
82576	gatcccagtggcagcagctatgtcg	X89627
82577	tatgtcgcggccatgcaccaagaag	X89627
82578	gcggccatgcaccaagaagccttct	X89627
82579	atgcaccaagaagccttctctaatc	X89627
82580	gccttctctaatctgcagacccagg	X89627
82581	tctaatctgcagacccaggagaatg	X89627
82582	ctccctgaatgtgcaatccctaggg	X89627
82583	tctgggcgacatggcgtggttgcca	AA103538
82584	tctgtactggaaggccccgctgttc	AA103538
82585	atgttcgtagctatgtggcgcaaag	AA103538
82586	ttcgtagctatgtggcgcaaagtcc	AA103538
82587	tggcgcaaagtcctgctgacctgcc	AA103538
82588	cgcaaagtcctgctgacctgccatg	AA103538

SEQ ID NO	sequence	DBAxnID
125125	ggcaagaccttcaaagctgtggaac	AA080218
125126	cagttacgagtgcacgtcaggcgac	AA080218
125127	cgagtgcacgtcaggcgacacaaag	AA080218
125128	gtgcacgtcaggcgacacaaaggtg	AA080218
125129	tcatctacagaatattctaaaggga	M20823
125130	cccctcagattggtcttaggcattt	M20823
125131	ttggcttcttcaggaagttatcatg	M20823
125132	atatcttctagaagcattctattag	M20823
125133	tcttctagaagcattctattagaac	M20823
125134	aatcaaaacttatactactattgca	M20823
125135	aacttatactactattgcagctgct	M20823
125136	ttatactactattgcagctgcttaa	M20823
125137	tactactattgcagctgcttaaatg	M20823
125138	tactattgcagctgcttaaatgcag	M20823
125139	ctattgcagctgcttaaatgcagtg	M20823
125140	tattgcagctgcttaaatgcagtga	M20823
125141	atctcactgttttattagcgccttc	M20823
125142	ctgttttattagcgccttctgtata	M20823
125143	ttttattagcgccttctgtatacac	M20823
125144	tattagcgccttctgtatacacagg	M20823
125145	tagcgccttctgtatacacaggtgc	M20823
125146	cgccttctgtatacacaggtgcagt	M20823
125147	cttctgtatacacaggtgcagtgtt	M20823
125148	tgcttggcttcttcaggaagttatc	M20823
125149	agtgacggtccggtcctcatctcac	AA105072
125150	atctcaccatgcttccagaggagcg	AA105072
125151	gcaaaacttcccagttgccagctgc	AA105072
125152	aaacttcccagttgccagctgccag	AA105072
125153	cccagttgccagctgccagaggcag	AA105072
125154	agttgccagctgccagaggcagcac	AA105072
125155	cagctgccagaggcagcactgaact	AA105072
125156	gcagcactgaactgccatttcttcc	AA105072
125157	gcactgaactgccatttcttccctt	AA105072
125158	aatatgtttgttgtgctgagacttg	AA105072
125159	atgtttgttgtgctgagacttgtgg	AA105072
125160	tttgttgtgctgagacttgtgggag	AA105072
125161	ccatgcttccagaggagcgagtcag	AA105072
125162	tcagcccctggcgactcagtggtgc	AA105072
125163	gcccctggcgactcagtggtgcagc	AA105072
125164	cctggcgactcagtggtgcagctaa	AA105072
125165	tacagttagctgccaacaagtatta	AA105072
125166	agttagctgccaacaagtattaagg	AA105072
125167	tagctgccaacaagtattaaggatt	AA105072
125168	tctgcaaaacttcccagttgccagc	AA105072
125169	cgagccctcatcagacagcctcggg	J03398
125170	ctcatcagacagcctcgggtcctac	J03398
125171	atctatttctcaatggtcaacatcc	J03398
125172	tatttctcaatggtcaacatccagg	J03398
125173	ttctcaatggtcaacatccaggccg	J03398
125174	tcaatggtcaacatccaggccggca	J03398
125175	atggtcaacatccaggccggcacac	J03398
125176	aacatccaggccggcacacagaact	J03398
125177	atccaggccggcacacagaacttat	J03398
125178	gccggcacacagaacttatgaactc	J03398
125179	aacttatgaactcttgttacagtat	J03398
125180	ttatgaactcttgttacagtatatt	J03398
125181	atcagacagcctcgggtcctactgc	J03398
125182	agacagcctcgggtcctactgctgg	J03398
125183	cagcctcgggtcctactgctggatg	J03398
125184	cctcgggtcctactgctggatgaag	J03398
125185	cgggtcctactgctggatgaagcca	J03398
125186	gtcctactgctggatgaagccacgt	J03398
125187	gccacgtcagctctggatactgaga	J03398
125188	ggcatctatttctcaatggtcaaca	J03398
125189	ggacactgctcggtcagctgagtga	W53866
125190	tgctcggtcagctgagtgatagtca	W53866
125191	gatcgctttctggatggagcattcc	W53866
125192	gcattcccatgaccaggaacacggg	W53866

TABLE 1

SEQ ID NO	sequence	DBAxnID
39985	tgaaatcgtgccttagcttcagtct	U41805
39986	cgtgccttagcttcagtcttgcagc	U41805
39987	tcagtcttgcagctatcaggatggg	U41805
39988	gacaccccaactgcaatgtctctgc	U41805
39989	catctgcagagttcttgccaggaca	U41805
39990	cagagttcttgccaggacagtcact	U41805
39991	tcttgccaggacagtcacttttatt	U41805
39992	ccttctctctgggtgcagggcctca	U41805
39993	cccatgagcctcaaggaacagaggg	U41805
39994	gtcctgggcactggagtcaataaat	U41805
39995	tgggtccttagcagtggccccatgt	U41805
39996	tcctgggcactggagtcaataaatt	U41805
39997	cttagcagtggccccatgtgtctcc	U41805
39998	agtggccccatgtgtctcccttcct	U41805
39999	tcagtgaccagggagtgccaatggc	U41805
40000	caatggctcacagacccctcggaag	U41805
40001	gggctcagcgactgtgcctgttcct	U41805
40002	acactgctcttggatgccctggctt	U41805
40003	gatgccctggctttctcctgaaatc	U41805
40004	ttcctgctcttgaacctagtgttcc	U46923
40005	ctcttgaacctagtgttcctgttct	U46923
40006	atgaaatgctaccgcagcaatgcct	U46923
40007	tgctaccgcagcaatgcctacacca	U46923
40008	atcacgaccagctcgcggatggcca	U46923
40009	accagctcgcggatggccaaaagaa	U46923
40010	cctcccgtgagcaggaccataacca	U46923
40011	aggaccataaccaaagactccatct	U46923
40012	ataaccaaagactccatctatgact	U46923
40013	tccatctatgactcatttgaccggg	U46923
40014	tatgactcatttgaccgggaggcca	U46923
40015	tcactgttatgtgccagagattaaa	U46923
40016	gtgttcctgttctcctggctacctt	U46923
40017	ctacctttccatgtggctcagctct	U46923
40018	ttccatgtggctcagctctggcatc	U46923
40019	tggcatccccatgagcaagactaca	U46923
40020	cttgtcttcacggcagtcacgtggg	U46923
40021	ttcagctcttcagcctcgaaaccca	U46923
40022	tcttcagcctcgaaacccactctgt	U46923
40023	gcctcgaaacccactctgtactcta	U46923
40024	caaactgataatctctcagactatg	AA014804
40025	aaactgataatctctcagactatgc	AA014804
40026	tatgccatggagcaccgagcaccag	AA014804
40027	tgccatggagcaccgagcaccagac	AA014804
40028	ccatggagcaccgagcaccagacat	AA014804
40029	atggagcaccgagcaccagacatca	AA014804
40030	tggagcaccgagcaccagacatcat	AA014804
40031	ggagcaccgagcaccagacatcatc	AA014804
40032	agcaccgagcaccagacatcatcca	AA014804
40033	ccgagcaccagacatcatccactat	AA014804
40034	cgagcaccagacatcatccactata	AA014804
40035	gagcaccagacatcatccactatat	AA014804
40036	actgataatctctcagactatgcca	AA014804
40037	gcaccagacatcatccactatatgc	AA014804
40038	ctgataatctctcagactatgccat	AA014804
40039	tgataatctctcagactatgccatg	AA014804
40040	tctcagactatgccatggagcaccg	AA014804
40041	tcagactatgccatggagcaccgag	AA014804
40042	cagactatgccatggagcaccgagc	AA014804
40043	actatgccatggagcaccgagcacc	AA014804
40044	ctatgccatggagcaccgagcacca	AA014804
40045	ggaccttatcaggtttgcacagacg	U51167
40046	tatcaggtttgcacagacgcgggag	U51167
40047	agcaccagtgggtactctgtacatg	U51167
40048	agtgggtactctgtacatggtagag	U51167
40049	tactctgtacatggtagagggtgcc	U51167
40050	agcattttcctcacggtggacatga	U51167
40051	ttcctcacggtggacatgaggcagg	U51167
40052	gaacgtgtgctttacctcagacagt	U51167

SEQ ID NO	sequence	DBAxnID
82589	aaagtcctgctgacctgccatgatg	AA103538
82590	gtcctgctgacctgccatgatgatg	AA103538
82591	ctgctgacctgccatgatgatgctg	AA103538
82592	ctgacctgccatgatgatgctgcgc	AA103538
82593	catgatgatgctgcgcggttcgtgc	AA103538
82594	cggttcgtgcggctgctgggccacc	AA103538
82595	cggcgacgcacaggctctgtatccg	AA103538
82596	cgcacaggctctgtatccgtgcaca	AA103538
82597	acaggctctgtatccgtgcacatgt	AA103538
82598	ggctctgtatccgtgcacatgttcg	AA103538
82599	gtatccgtgcacatgttcgtagcta	AA103538
82600	tccgtgcacatgttcgtagctatgt	AA103538
82601	gtgcacatgttcgtagctatgtggc	AA103538
82602	cacatgttcgtagctatgtggcgca	AA103538
82603	ctgcgccgtgcaccgcaatggatcc	AA103541
82604	tgcgccgtgcaccgcaatggatcca	AA103541
82605	tccagaaaattaccacgtcctatga	AA103541
82606	aaattaccacgtcctatgaagatcg	AA103541
82607	aattaccacgtcctatgaagatcgg	AA103541
82608	attaccacgtcctatgaagatcggt	AA103541
82609	accacgtcctatgaagatcggtgga	AA103541
82610	ccacgtcctatgaagatcggtggaa	AA103541
82611	cacgtcctatgaagatcggtggaaa	AA103541
82612	cgtcctatgaagatcggtggaaact	AA103541
82613	gcgccgtgcaccgcaatggatccaa	AA103541
82614	cgccgtgcaccgcaatggatccaag	AA103541
82615	gccgtgcaccgcaatggatccaagt	AA103541
82616	ccgtgcaccgcaatggatccaagtt	AA103541
82617	cgtgcaccgcaatggatccaagttc	AA103541
82618	gtgcaccgcaatggatccaagttcg	AA103541
82619	tgcaccgcaatggatccaagttcga	AA103541
82620	atccagaaaattaccacgtcctatg	AA103541
82621	gatgtgcagctgaccactctcgctc	U41736
82622	gtgcagctgaccactctcgctcaca	U41736
82623	gccaagtcttcctgggcccgtcagg	U41736
82624	cgtcaggagagcctgcaggagcgca	U41736
82625	agcctgcaggagcgcaagcaggcac	U41736
82626	cgcaagcaggcactgtatgaatatg	U41736
82627	agacaggcccaggaggctgaatgag	U41736
82628	ctcacccagctaacaacaggccgga	U41736
82629	acccagctaacaacaggccggatga	U41736
82630	cagctaacaacaggccggatgagtg	U41736
82631	cccccaatctcacattaaattcagg	U41736
82632	ccaatctcacattaaattcagggtt	U41736
82633	accactctcgctcacagagtcaagg	U41736
82634	ctgccccatgtgccattgaatgtca	U41736
82635	aatgtcatccagagagacctggcca	U41736
82636	gtcatccagagagacctggccagga	U41736
82637	atccagagagacctggccaggactg	U41736
82638	ctggccaggactgggtgtgtagact	U41736
82639	gtagacttgaccatcacaaacctgc	U41736
82640	ttgaccatcacaaacctgctcgagg	U41736
82641	catctttggggacagtccttgtaca	AA103747
82642	ggacagtccttgtacatcctcagct	AA103747
82643	ttggcaatttgctcttttggcagaa	AA103747
82644	tcaatttaggggctgttgaggaaca	AA103747
82645	atggatcagtgctcagggcattgct	AA103747
82646	cagtgctcagggcattgctgactgt	AA103747
82647	tgctcagggcattgctgactgtgca	AA103747
82648	cattgctgactgtgcacccgattcg	AA103747
82649	tgctgactgtgcacccgattcggag	AA103747
82650	tgactgtgcacccgattcggagctc	AA103747
82651	tgcacccgattcggagctccagcca	AA103747
82652	cgattcggagctccagccagggccg	AA103747
82653	ttgtacatcctcagctcactgctag	AA103747
82654	tacatcctcagctcactgctagcag	AA103747
82655	agctcactgctagcagagggattct	AA103747
82656	ggattcttgccacgggtgaaatcga	AA103747

SEQ ID NO	sequence	DBAxnID
125193	gggcttcttcacatgtcttggccgt	W53866
125194	cttcttcacatgtcttggccgtgat	W53866
125195	cttcacatgtcttggccgtgatggg	W53866
125196	atgtcttggccgtgatgggaaggta	W53866
125197	tcttggccgtgatgggaaggtatat	W53866
125198	atatgatcacctcaaatatgtttgg	W53866
125199	tgatcacctcaaatatgtttggctg	W53866
125200	tcacctcaaatatgtttggctgcag	W53866
125201	gtgatagtcacgggatcgcgaccaa	W53866
125202	atagtcacgggatcgcgaccaagtc	W53866
125203	ggatcgcgaccaagtctgaattcct	W53866
125204	ccaagtctgaattcctggaggaaag	W53866
125205	agtctgaattcctggaggaaagcag	W53866
125206	gatggacctaggactcctaatgtta	W53866
125207	aggactcctaatgttacaggacatg	W53866
125208	agagcttgatcgtgtgatcgctttc	W53866
125209	ggatctagctgactctaagattgca	W41339
125210	atctagctgactctaagattgcaga	W41339
125211	accaggattcctgtctctatgctgt	W41339
125212	caggattcctgtctctatgctgtag	W41339
125213	tcctgtctctatgctgtagccggaa	W41339
125214	ctgtctctatgctgtagccggaatg	W41339
125215	gtctctatgctgtagccggaatgca	W41339
125216	ctctatgctgtagccggaatgcaag	W41339
125217	ctatgctgtagccggaatgcaagtg	W41339
125218	atgctgtagccggaatgcaagtgta	W41339
125219	acaatcagattgtcatggtgagatc	W41339
125220	aatcagattgtcatggtgagatcat	W41339
125221	agctgactctaagattgcagatttg	W41339
125222	agcctcacatgctaccactgtttcc	W41339
125223	cctcacatgctaccactgtttccaa	W41339
125224	tcacatgctaccactgtttccaacc	W41339
125225	tccaaccggtggttttcttcatgcaa	W41339
125226	caaccggtggtttcttcatgcaata	W41339
125227	cacttgctctcctgaccaggattcc	W41339
125228	tgaccaggattcctgtctctatgct	W41339
125229	acaccatgggccctgagcgtatctt	W29549
125230	accatgggccctgagcgtatcttcc	W29549
125231	ttagggccacatcagggtcctacag	W29549
125232	ggccacatcagggtcctacagaagg	W29549
125233	ccacatcagggtcctacagaaggaa	W29549
125234	atcagggtcctacagaaggaactgg	W29549
125235	caggcccagcaggctactcgtacca	W29549
125236	ggcccagcaggctactcgtaccagc	W29549
125237	agcccctcaatcaagaccctgaaca	W29549
125238	cccctcaatcaagaccctgaacaag	W29549
125239	tcaatcaagaccctgaacaagaaga	W29549
125240	aatcaagaccctgaacaagaagagg	W29549
125241	tgggccctgagcgtatcttccccaa	W29549
125242	ggccctgagcgtatcttccccaatc	W29549
125243	ctgagcgtatcttccccaatcagac	W29549
125244	gagcgtatcttccccaatcagactg	W29549
125245	atcttccccaatcagactgaggact	W29549
125246	tccccaatcagactgaggacttagg	W29549
125247	cccaatcagactgaggacttagggc	W29549
125248	atcagactgaggacttagggccaca	W29549
125249	atttcaacaacatatggtactgagt	L13171
125250	tactctctgagtagcgcagatctgt	L13171
125251	actcaaagcctcagcatcaagtcag	L13171
125252	agcctcagcatcaagtcagaacctg	L13171
125253	agcatcaagtcagaacctgtttctc	L13171
125254	gacagcttgagcagctgtagcagtt	L13171
125255	agctgtagcagttcctacgatggga	L13171
125256	gaaagtccttcagtcaagcgcatgc	L13171
125257	gtcaagcgcatgcgactctctgaag	L13171
125258	cgcatgcgactctctgaaggatggg	L13171
125259	cgactctctgaaggatgggcaacat	L13171
125260	gcaacatgatcacattattacttaa	L13171

TABLE 1

SEQ ID NO	sequence	DBAxnID
40053	tacctcagacagtcagtgttctgca	U51167
40054	agacagtcagtgttctgcatactgt	U51167
40055	aatcacatggtgccatatttagcta	U51167
40056	ttagctactaaaaagctcttcgcaa	U51167
40057	caaggacctggctggctgtatccat	U51167
40058	tggctgtatccatggcctcagcaat	U51167
40059	tatccatggcctcagcaatgtgaag	U51167
40060	gctgaacgagcacttcctgaacacc	U51167
40061	cgagcacttcctgaacaccacagac	U51167
40062	cttcctgaacaccacagacttcctg	U51167
40063	cttcctggacaccattaagagcaac	U51167
40064	tctgggcaagcagtaggggtgacac	U51167
40065	acttcacagacctttttgactatct	Z67745
40066	tcacagacctttttgactatcttcc	Z67745
40067	tcgatcgcctacaggaagttcctca	Z67745
40068	atcgcctacaggaagttcctcatga	Z67745
40069	gcctacaggaagttcctcatgaggg	Z67745
40070	aagttcctcatgagggtccaatgtg	Z67745
40071	ttcctcatgagggtccaatgtgtga	Z67745
40072	ggatatctcctcggggagctggtta	Z67745
40073	tatctcctcggggagctggttatac	Z67745
40074	ctggttatacctttggccaagatat	Z67745
40075	atgccaatggcctcacgttggtgtc	Z67745
40076	ccaatggcctcacgttggtgtccag	Z67745
40077	tgtcaccatccatagacacactgga	Z67745
40078	caccatccatagacacactggatca	Z67745
40079	ccatagacacactggatcacatccg	Z67745
40080	tagacacactggatcacatccgagc	Z67745
40081	acacactggatcacatccgagcact	Z67745
40082	cactggatcacatccgagcactcga	Z67745
40083	atcacatccgagcactcgatcgcct	Z67745
40084	acatccgagcactcgatcgcctaca	Z67745
40085	atctctttgattatcttccacttac	Z67746
40086	cacttacagctttagtagatggaca	Z67746
40087	gcatttctccacgtggtgctggcta	Z67746
40088	ctggctacacatttggacaagacat	Z67746
40089	tggtgtctcgtgctcaccagcttgt	Z67746
40090	ctcgtgctcaccagcttgtaatgga	Z67746
40091	ctcaccagcttgtaatggaaggata	Z67746
40092	tggtcaccatttttagtgcgcccaa	Z67746
40093	ccatttttagtgcgcccaattactg	Z67746
40094	ttagtgcgcccaattactgctaccg	Z67746
40095	ggaaccaggctgctatcatggaatt	Z67746
40096	attcatttcttcagtttgacccagc	Z67746
40097	tgtctccatccatagatacactgga	Z67746
40098	tagatacactggaccacataagagc	Z67746
40099	cactggaccacataagagccctgga	Z67746
40100	taagagccctggatcgcttgcaaga	Z67746
40101	aagttccacatgagggcccaatgtg	Z67746
40102	caatgtgtgatctcttatggtcaga	Z67746
40103	gtgatctcttatggtcagatccgga	Z67746
40104	tcttatggtcagatccggatgaccg	Z67746
40105	gccacaccttggacaatcattgctg	AA014670
40106	acaccttggacaatcattgctgtct	AA014670
40107	cactgtcgtgggcttgatcagatag	AA014670
40108	cagatagcctttacagatgtagcag	AA014670
40109	gcctttacagatgtagcaggtgatg	AA014670
40110	cctttgggtagccattcgaggtcag	AA014670
40111	ggtagccattcgaggtcagctggct	AA014670
40112	cattcgaggtcagctggcttgagca	AA014670
40113	tcgaggtcagctggcttgagcagtt	AA014670
40114	agatgcaaagctgctcccaggagct	AA014670
40115	aaagctgctcccaggagctagcgca	AA014670
40116	gctcccaggagctagcgcaatgttc	AA014670
40117	ccttggacaatcattgctgtcttca	AA014670
40118	acaatcattgctgtcttcaaagtgc	AA014670
40119	atcattgctgtcttcaaagtgctgg	AA014670
40120	attgctgtcttcaaagtgctggaca	AA014670

SEQ ID NO	sequence	DBAxnID
82657	tttctacttcagtcaaacctgatgt	AA103747
82658	ctacttcagtcaaacctgatgttgt	AA103747
82659	cttcagtcaaacctgatgttgtagt	AA103747
82660	ttgtagtgccagttggcaatttgct	AA103747
82661	tccaaccagttcaaagcttgttgtc	AA103768
82662	ccaaccagttcaaagcttgttgtct	AA103768
82663	tgtcttcgacactacgttgcaagtc	AA103768
82664	gtcttcgacactacgttgcaagtca	AA103768
82665	ttcgacactacgttgcaagtcaaaa	AA103768
82666	tcgacactacgttgcaagtcaaaaa	AA103768
82667	gacactacgttgcaagtcaaaaagg	AA103768
82668	gccttctttgccttggtagccaacg	AA103768
82669	tgccttggtagccaacggagtccgt	AA103768
82670	ttggtagccaacggagtccgtgcag	AA103768
82671	tagccaacggagtccgtgcagcgcc	AA103768
82672	aggaatgctcacgattacagatttc	AA103768
82673	caaccagttcaaagcttgttgtctt	AA103768
82674	ggaatgctcacgattacagatttca	AA103768
82675	tcaaagcttgttgtcttcgacacta	AA103768
82676	aaagcttgttgtcttcgacactacg	AA103768
82677	aagcttgttgtcttcgacactacgt	AA103768
82678	cttgttgtcttcgacactacgttgc	AA103768
82679	ttgttgtcttcgacactacgttgca	AA103768
82680	tgttgtcttcgacactacgttgcaa	AA103768
82681	ttgtcttcgacactacgttgcaagt	AA103768
82682	cactatctttttaagctacaagaga	U43900
82683	attgtagcacactgacctgaaggca	U43900
82684	ggtagccacagtttgggtgcaatta	U43900
82685	agccacagtttgggtgcaattagag	U43900
82686	atgatgttccaggtattgtggacca	U43900
82687	atgttccaggtattgtggaccatga	U43900
82688	ggcattggtttcctttgtcatagtt	U43900
82689	ggtttcctttgtcatagttgccgtg	U43900
82690	tgtcatagttgccgtggtgattagg	U43900
82691	tttactgtgtttattggtagaagtg	U43900
82692	atgaactaacactacattttcagtc	U43900
82693	agtctcctgtcatttttaggatata	U43900
82694	tgacctgaaggcattgtcctgttat	U43900
82695	attgtcctgttatagtgtcacatta	U43900
82696	tcctgtagcttctgccctctactgg	U43900
82697	tgtagcttctgccctctactggttg	U43900
82698	tgccctctactggttgtcaccatac	U43900
82699	ctggttgtcaccataccagcatacg	U43900
82700	gtcaccataccagcatacggtagcc	U43900
82701	ataccagcatacggtagccacagtt	U43900
82702	tgcaatgcatgcggtctctacagca	U51335
82703	gcatgcggtctctacagcaagatga	U51335
82704	tatatgaaactccatggggtgcctc	U51335
82705	agtggctctgtccctatgactccta	U51335
82706	cctatgactcctacttcctcttctt	U51335
82707	tcagatgactgcaccaaaaatactt	U51335
82708	gactgcaccaaaaatacttctcctt	U51335
82709	gcagtgatgtctgcagtgggagaaa	U51335
82710	tattcaggtcaagacggcctctaca	U51335
82711	ggtcaagacggcctctacataggtg	U51335
82712	gacggcctctacataggtgtcagtc	U51335
82713	aggattcttggtgtgctctggccct	U51335
82714	ggtctctacagcaagatgaatgcgc	U51335
82715	ttggtgtgctctggccctggcctga	U51335
82716	aatgcgctcagcaggcccctcatca	U51335
82717	aagccacagaagcgcgtgccttcat	U51335
82718	cagaagcgcgtgccttcatcacggc	U51335
82719	ggactgtcctgtgccaactgtcaca	U51335
82720	tcctgtgccaactgtcacaccacaa	U51335
82721	accactaccttatggcgtagaaatg	U51335
82722	tgcaatgcttgcgggctctatatga	U51335
82723	gaaatcctatttctcactttctctt	U61155
82724	accgccggtgaatggtggctttgca	U61155

SEQ ID NO	sequence	DBAxnID
125261	agcgcagatctgtcatctctgtctg	L13171
125262	atatgcatatatgtgccgtgtgtgg	L13171
125263	ctgtctggcttcaacactgccagtg	L13171
125264	gtaactggctggcagcagcagcacc	L13171
125265	cagcacctacataacatgccgccat	L13171
125266	ggagcttgcactagcactcatttat	L13171
125267	tgcactagcactcatttatctcaga	L13171
125268	catttatctcagagttcaaatctct	L13171
125269	ccttctactcaaagcctcagcatca	L13171
125270	catagaaaccattttgtcagtctct	D38417
125271	tttgtcagtctcttctgcatgttac	D38417
125272	aattctaagactcttgtgtatgtct	D38417
125273	aagactcttgtgtatgtctgattga	D38417
125274	tgtttcttacagcacctgaacactt	D38417
125275	aacacttaaccaatatgccagtgta	D38417
125276	atatgccagtgtatcaactttcaa	D38417
125277	atcaacttttcaattgttactatgc	D38417
125278	ttttcaattgttactatgcacaagc	D38417
125279	acatagctccttgctgtcctttaaa	D38417
125280	actgttacttgcttacatatgccat	D38417
125281	acttgcttacatatgccatgcatag	D38417
125282	agtctcttctgcatgttaccaaata	D38417
125283	agacaacttttggacactgagagtat	D38417
125284	attacacacttatcaaactgaaagt	D38417
125285	cacattaaactgcctatttgtttgt	D38417
125286	aaactgcctatttgtttgtctgtat	D38417
125287	tctgtattgccaagtgccaaatgga	D38417
125288	cacttagagcaccactagactgagg	D38417
125289	gagcaccactagactgagggattaa	D38417
125290	cttgtatcagttgatgttggactgc	M68513
125291	caacagacccaagttcgagcagatc	M68513
125292	cattgccaagatctccacagatgac	M68513
125293	caagatctccacagatgacatgaaa	M68513
125294	cactgtggttgggccacagaagaag	M68513
125295	cagcaccattaaagctctagaaaca	M68513
125296	agctctagaaacacaatctaagaat	M68513
125297	atgcagcagcatcctgcagacagat	M68513
125298	cagcatcctgcagacagatggaaat	M68513
125299	agaagctccaagtctaataagacac	M68513
125300	tctaataagacactcagttataagt	M68513
125301	tataagtccaaatgccttaaaatgg	M68513
125302	actcatccggaatccaggcagtctg	M68513
125303	ccggaatccaggcagtctgaagatc	M68513
125304	ccttcttctggaccaaagcaatgtc	M68513
125305	caatgtcgatatcgctaccttccac	M68513
125306	aatcttcacaggcgtcgaatacagc	M68513
125307	cgtcgaatacagctcctgtgacacc	M68513
125308	atacagctcctgtgacaccattgcc	M68513
125309	tgacaccattgccaagatctccaca	M68513
125310	tcatcgtgactcactagctggctgc	L02526
125311	tgactcactagctggctgcctgtat	L02526
125312	aaacctaagcagagcccatcactgc	L02526
125313	aagcagagcccatcactgccatgat	L02526
125314	agcccatcactgccatgatagctgg	L02526
125315	tcactgccatgatagctgggcttca	L02526
125316	tagctgggcttcagtctgtctactg	L02526
125317	agtctgtctactgtggtgatttta	L02526
125318	agttctatctttcttccagtctaag	L02526
125319	cttccagtctaagtaccaatgctat	L02526
125320	tgtatagtgcctacaaattgtatga	L02526
125321	accactttaatcaagatgtttatca	L02526
125322	actagctggctgcctgtattgtcag	L02526
125323	tggctgcctgtattgtcaggattct	L02526
125324	ctcttgctggtgacctctcagtctg	L02526
125325	ctggtgacctctcagtctgagaggg	L02526
125326	tgtgagacccttcacaggcagtgca	L02526
125327	cacaggcagtgcatgcatggaaagc	L02526
125328	catgctttgctgctactgaaatgag	L02526

TABLE 1

SEQ ID NO	sequence	DBAxnID
40121	aatacaggtcttacagaatgtatgg	AA014670
40122	gaggcattccgtcactgtcgtgggc	AA014670
40123	ttccgtcactgtcgtgggcttgatc	AA014670
40124	cgtcactgtcgtgggcttgatcaga	AA014670
40125	aaattagcatcagtcacaccactac	AA014677
40126	ttagcatcagtcacaccactacatt	AA014677
40127	tagtcaggaccatgctgaataaaag	AA014677
40128	aggttcttctgttcttccacagaat	AA014677
40129	ttctgttcttccacagaatatggct	AA014677
40130	tgttcttccacagaatatggcttta	AA014677
40131	tcttccacagaatatggctttagga	AA014677
40132	aacttttgtaagtctgtggctcag	AA014677
40133	tttttgtaagtctgtggctcagaca	AA014677
40134	tgtggctcagacatgctgaatgtat	AA014677
40135	tattccaaggcagtctgcggtttgg	AA014677
40136	accataagtcctggactaggaatct	AA014677
40137	gtcacaccactacattcttcaagca	AA014677
40138	acaccactacattcttcaagcaagg	AA014677
40139	ctacattcttcaagcaaggagactg	AA014677
40140	tcttcaagcaaggagactggaaact	AA014677
40141	ggaaactgacatgccctatagtcag	AA014677
40142	aactgacatgccctatagtcaggac	AA014677
40143	gccctatagtcaggaccatgctgaa	AA014677
40144	ctatagtcaggaccatgctgaataa	AA014677
40145	ccacacacaggcaaaaaggtagaat	AA024297
40146	gaatgcactgagctgaccagactcg	AA024297
40147	gctgtgcttcgttttggagaagtgc	AA024297
40148	gtgcttcgttttggagaagtgcatc	AA024297
40149	aattttatccaacacatactcctga	AA024297
40150	tttatccaacacatactcctgaatt	AA024297
40151	atccaacacatactcctgaattatg	AA024297
40152	caacacatactcctgaattatggca	AA024297
40153	cacatactcctgaattatggcatga	AA024297
40154	atactcctgaattatggcatgaata	AA024297
40155	aattatcgccactagcatgtagaac	AA024297
40156	aactgtagccaagtctttgatacca	AA024297
40157	actgagctgaccagactcgttaaac	AA024297
40158	gtctttgataccatagtgatatagg	AA024297
40159	gagctgaccagactcgttaaacttg	AA024297
40160	ctgaccagactcgttaaacttgctg	AA024297
40161	accagactcgttaaacttgctgtgc	AA024297
40162	agactcgttaaacttgctgtgcttc	AA024297
40163	ctcgttaaacttgctgtgcttcgtt	AA024297
40164	gttaaacttgctgtgcttcgttttg	AA024297
40165	aaacttgctgtgcttcgttttggag	AA024297
40166	tacccggctgggcacacataaaagc	AA015057
40167	acccggctgggcacacataaaagca	AA015057
40168	cagtccggcacttctcggatcctca	AA015057
40169	ggcacttctcggatcctcagcccag	AA015057
40170	gcacttctcggatcctcagcccagt	AA015057
40171	cacttctcggatcctcagcccagtg	AA015057
40172	gtgcccttctcgctgctgggacctc	AA015057
40173	gcccttctcgctgctgggacctcga	AA015057
40174	ctgctgggacctcgagctgggaacc	AA015057
40175	gctgggacctcgagctgggaaccat	AA015057
40176	cgatgcagtggtcgcagtggttcag	AA015057
40177	gatgcagtggtcgcagtggttcagc	AA015057
40178	gcacacataaaagcacgctggggct	AA015057
40179	cacacataaaagcacgctggggctc	AA015057
40180	acacataaaagcacgctggggctcc	AA015057
40181	acataaaagcacgctggggctccag	AA015057
40182	cataaaagcacgctggggctccagt	AA015057
40183	aaagcacgctggggctccagtccgg	AA015057
40184	gctccagtccggcacttctcggatc	AA015057
40185	tccagtccggcacttctcggatcct	AA015057
40186	tgggctctgacagcgaccttgtcat	X87817
40187	ctgacagcgaccttgtcatctggga	X87817
40188	cattctctgactatgtctataagcg	X87817

SEQ ID NO	sequence	DBAxnID
82725	ctgctcctccatactttgagtctga	U61155
82726	tcctccatactttgagtctgagggg	U61155
82727	ctccatactttgagtctgaggggcc	U61155
82728	ccatactttgagtctgaggggcctg	U61155
82729	atactttgagtctgaggggcctggc	U61155
82730	ccctgagccgggcgccaagtcattg	U61155
82731	cattgagcatttgcccacggatcac	U61155
82732	ttgagcatttgcccacggatcactc	U61155
82733	gagcatttgcccacggatcactctc	U61155
82734	gacctggaggctgggccatcaggac	U61155
82735	aatggtggctttgcaggaagacaaa	U61155
82736	gaagacaaatccacctgcgagttgg	U61155
82737	cccctggtggctcaatgtcagcttg	U61155
82738	gtggctcaatgtcagcttgtctagg	U61155
82739	ggctcaatgtcagcttgtctaggaa	U61155
82740	ctcaatgtcagcttgtctaggaagg	U61155
82741	caatgtcagcttgtctaggaaggtg	U61155
82742	gtcagcttgtctaggaaggtgcgcg	U61155
82743	gcatgctagagccacctttaagcc	AA103881
82744	catgctagagccacctttaagcct	AA103881
82745	gcccacagaccaagacttctaccag	AA103881
82746	cagaccaagacttctaccagaagtt	AA103881
82747	agacttctaccagaagtttgccaca	AA103881
82748	gtttgccacaggcagtgtgtccatc	AA103881
82749	ttgccacaggcagtgtgtccatccc	AA103881
82750	catccctggcagaatgagatggtg	AA103881
82751	tggagaccgagtgcttccaggaact	AA103881
82752	tgttcccccagacctggactggaag	AA103881
82753	cccagacctggactggaagggccag	AA103881
82754	cagacctggactggaagggccagcc	AA103881
82755	tgctagagccacctttaagcctga	AA103881
82756	gctagagccacctttaagcctgat	AA103881
82757	cttttaagcctgatccccaggctat	AA103881
82758	tccccaggctatttattgcaaggat	AA103881
82759	atctggagcccacagaccaagactt	AA103881
82760	tggagcccacagaccaagacttcta	AA103881
82761	ggagcccacagaccaagacttctac	AA103881
82762	agcccacagaccaagacttctacca	AA103881
82763	cgccatgctggcccggagaagaaaa	X98475
82764	ccccaaagacgagtcagccagtcag	X98475
82765	ttctccttgactacagggacccaga	X98475
82766	cagaagacccatttcttctttctgt	X98475
82767	ttctttctgtacttcctgcctggca	X98475
82768	tacttcctgcctggcacctgctttc	X98475
82769	tttccctgcctctacttgaccaaga	X98475
82770	ccctgcctctacttgaccaagagtt	X98475
82771	ccagctcccacttggaagattccac	X98475
82772	gctcccacttggaagattccacgtg	X98475
82773	atggtcacacccacgctggctgctg	X98475
82774	cccacgctggctgctgattggataa	X98475
82775	agacgagtcagccagtcaggaggag	X98475
82776	gaacagcacaaccttgccaaggatg	X98475
82777	cagcacaaccttgccaaggatgaag	X98475
82778	cacaaccttgccaaggatgaagtcg	X98475
82779	ctgctccagtgatgactccgacttg	X98475
82780	cagtgatgactccgacttggagagg	X98475
82781	aatcatcgaagtctttgtccaggag	X98475
82782	catcgaagtctttgtccaggagctg	X98475
82783	ctgtgccaacgcgtttgctgtcacg	AA140170
82784	tgccaacgcgtttgctgtcacgtgc	AA140170
82785	ggaggacctgcaccactaccgcaac	AA140170
82786	ctaccgcaacctcagcgagttcttc	AA140170
82787	cagcgagttcttccggcgtaacgtg	AA140170
82788	cttccggcgtaacgtgaagcctcag	AA140170
82789	gaagcctcaggcacggcccgtatgt	AA140170
82790	acggcccgtatgtggcttgcactgt	AA140170
82791	cttgcactgtgtgaccagcccatca	AA140170
82792	ctgtgtgaccagcccatcagatggc	AA140170

SEQ ID NO	sequence	DBAxnID
125329	agaactcagcaattcccatcaaaaa	L02526
125330	tgcaattacctgaagcttttcaggc	M28723
125331	aagagccccagctggaatccttcca	M28723
125332	gtaagcattctttcccttagcctgc	M28723
125333	accttggtctacagtgaagtagcac	M28723
125334	gcacatagcaccagcacttaatgga	M28723
125335	agcaccagcacttaatggaagcttc	M28723
125336	cagtgtccttgtgtgttctgaggta	M28723
125337	ccttgtgtgttctgaggtattgaag	M28723
125338	actatgtctaatccataagtcattt	M28723
125339	tctaatccataagtcattttcttca	M28723
125340	ccataagtcattttcttcaagagct	M28723
125341	gtcattttcttcaagagctggatat	M28723
125342	cccagctggaatccttccaatgcct	M28723
125343	ccttccaatgccttgaagattattt	M28723
125344	atggcaaaacctcattatgtttgtg	M28723
125345	tgctccacaggctttgtaattctaa	M28723
125346	gctgcccttactagggacttcttgg	M28723
125347	gctttgcccccatttcttggatcat	M28723
125348	tttcttggatcatgtccttagaggg	M28723
125349	ggatcatgtccttagagggtaagca	M28723
125350	aacatggtcagatggcctgggtgac	W48126
125351	atggtcagatggcctgggtgacatg	W48126
125352	gcttaggtcttttggagtgatccaa	W48126
125353	tcttttggagtgatccaagggaatc	W48126
125354	gggaatcctccaggttagaagctat	W48126
125355	gaatcctccaggttagaagctatgc	W48126
125356	aatcctccaggttagaagctatgcc	W48126
125357	tcctccaggttagaagctatgccgg	W48126
125358	ttccctgtcccattggcagtcggac	W48126
125359	tccctgtcccattggcagtcggact	W48126
125360	gtcccattggcagtcggactgcctg	W48126
125361	cattggcagtcggactgcctggtgg	W48126
125362	gtcagatggcctgggtgacatggtt	W48126
125363	acccagtcttgtgaaagcttggtcg	W48126
125364	tgaaagcttggtcgtagaggtagag	W48126
125365	agaggcctcaggcaagcagatgctt	W48126
125366	gaggcctcaggcaagcagatgctta	W48126
125367	cagatgcttaggtcttttggagtga	W48126
125368	gatgcttaggtcttttggagtgatc	W48126
125369	atgcttaggtcttttggagtgatcc	W48126
125370	acacacttcccaggaatcaagccta	M82831
125371	ttcccaggaatcaagcctaaaattg	M82831
125372	tattacatattcactctatgctcag	M82831
125373	tacatattcactctatgctcagggt	M82831
125374	atattcactctatgctcagggtgta	M82831
125375	actctatgctcagggtgtaactatg	M82831
125376	caggtcacacacacatagttacaca	M82831
125377	gtcacacacacatagttacacagaa	M82831
125378	ttctattcttaattttgaaagtgca	M82831
125379	atggttcagaggccaactggtttat	M82831
125380	agaattactctcttgtctttactga	M82831
125381	attactctcttgtctttactgaaat	M82831
125382	gtcctctatttcaaaagacactact	M82831
125383	ctctatttcaaaagacactactaca	M82831
125384	tatttcaaaagacactactacatct	M82831
125385	tacatcttccaaggagcctatcaat	M82831
125386	ttccaaggagcctatcaattggaat	M82831
125387	gaatatgacccccctgttccgtcgtg	M82831
125388	ctgttccgtcgtgtcaccaaaacat	M82831
125389	ttccgtcgtgtcaccaaaacattga	M82831
125390	tcccattatgacagctggaaaggag	W41490
125391	atagaaatctctatcgaccatgacg	W41490
125392	gatgctcttgtatcttgcttcatat	W41490
125393	gctcttgtatcttgcttcatatagc	W41490
125394	cttgtatcttgcttcatatagcagc	W41490
125395	gtatcttgcttcatatagcagccgt	W41490
125396	tcttgcttcatatagcagccgtcta	W41490

TABLE 1

SEQ ID NO	sequence	DBAxnID
40189	agatggcagacctgcatgcagtccc	X87817
40190	cagacctgcatgcagtcccaagagg	X87817
40191	cagtcccaagaggcatgtatgatgg	X87817
40192	cagtgaggaacctccatcagtcagg	X87817
40193	tccatcagtcaggatttagcctgtc	X87817
40194	gatttagcctgtcaggcacccaagt	X87817
40195	gcctgtcaggcacccaagtggatga	X87817
40196	gttctaacatcacatccctgagtta	X87817
40197	acatcacatccctgagttaagccct	X87817
40198	gcgaccttgtcatctgggatccaga	X87817
40199	atccagatgccttgaagattgtctc	X87817
40200	tgaagattgtctctgccaagaacca	X87817
40201	ttgtctctgccaagaaccaccagtc	X87817
40202	accagtcggttgccgaatacaacat	X87817
40203	tctgccagggcaagatcatgctgga	X87817
40204	aagatggcaacctgcacgtgaccca	X87817
40205	ttccctgcagcccattctctgacta	X87817
40206	attgcgacctactctgcctggtctg	AA014816
40207	acctactctgcctggtctggactgg	AA014816
40208	gtaaatacttaccttgaggtcatca	AA014816
40209	aatacttaccttgaggtcatcaaat	AA014816
40210	acttaccttgaggtcatcaaataca	AA014816
40211	gttgatcaaaacaactgctaatagc	AA014816
40212	gatcaaaacaactgctaatagcagg	AA014816
40213	tatatatcctgcttctgagatgccc	AA014816
40214	tcctgcttctgagatgccccttttat	AA014816
40215	tgcttctgagatgccccttttataag	AA014816
40216	ttctgagatgccccttttataagaca	AA014816
40217	gatgccccttttataagacattacgg	AA014816
40218	tactctgcctggtctggactggcat	AA014816
40219	tctgcctggtctggactggcatctt	AA014816
40220	gcatctttgcagtcaagcaatgaag	AA014816
40221	tctttgcagtcaagcaatgaagatg	AA014816
40222	tctttttataccatgatccgctgcc	AA014816
40223	ttttataccatgatccgctgcctgc	AA014816
40224	accatgatccgctgcctgctcagag	AA014816
40225	ctgctcagagattctcgaaaagtaa	AA014816
40226	cagttctcggtataacctgctagtg	AA023770
40227	ttctcggtataacctgctagtgaaa	AA023770
40228	cacattagccgctgtctctgtagac	AA023770
40229	attagccgctgtctctgtagactgt	AA023770
40230	cgctgtctctgtagactgtttacca	AA023770
40231	tgtctctgtagactgtttaccagag	AA023770
40232	ctctgtagactgtttaccagaggaa	AA023770
40233	agactgtttaccagaggaagccagt	AA023770
40234	cacattttccatagtttccgtggca	AA023770
40235	attttccatagtttccgtggcagct	AA023770
40236	ttccatagtttccgtggcagctgta	AA023770
40237	agtttccgtggcagctgtagaggtg	AA023770
40238	tcggtataacctgctagtgaaatct	AA023770
40239	taacctgctagtgaaatcttctgct	AA023770
40240	gaaatcttctgcttcaattttccca	AA023770
40241	atcttctgcttcaattttcccatcc	AA023770
40242	ttctgcttcaattttcccatccagt	AA023770
40243	ttgtactaagtctttcacattagcc	AA023770
40244	tactaagtctttcacattagccgct	AA023770
40245	taagtctttcacattagccgctgtc	AA023770
40246	tctctcagtctcctttagaagtgtg	D90146
40247	agtctcctttagaagtgtgctctaa	D90146
40248	actgtgctccagctccaggttagtg	D90146
40249	ttgtcctgtggacattgcagtgaag	D90146
40250	gaacccatagtaactcttccagaga	D90146
40251	atagtaactcttccagagaaatctt	D90146
40252	actcttccagagaaatcttccaggg	D90146
40253	gccgcagttgtccaatatgaataca	D90146
40254	acagctcctagagctctgatagatc	D90146
40255	atagatctctcccaggtggtaaagg	D90146
40256	gtgacactctgggacctgattgggg	D90146

SEQ ID NO	sequence	DBAxnID
82793	tgtgaccagcccatcagatggcaag	AA140170
82794	gaccagcccatcagatggcaagatc	AA140170
82795	cgcgtttgctgtcacgtgcctgtgg	AA140170
82796	cctgtggtcgcctcaaccaagtaga	AA140170
82797	tcaaccaagtagaacttccttactg	AA140170
82798	tagaacttccttactggctccggag	AA140170
82799	ggagccagtctacagcctgtatatc	AA140170
82800	agtctacagcctgtatatctggacc	AA140170
82801	cctgtatatctggacctttggggtg	AA140170
82802	ctggacctttggggtgaacatgact	AA140170
82803	tggcgtgtaactcgccacagtcacc	U67840
82804	cgtgtaactcgccacagtcaccagc	U67840
82805	agatgggctactttctcttgctcag	U67840
82806	tcttgctcagttttgggactacagt	U67840
82807	ggactacagtgttgtgctggtttag	U67840
82808	ctacagtgttgtgctggtttagaaa	U67840
82809	ttgcgcaactgtggacactatcaat	U67840
82810	cgcaactgtggacactatcaatggt	U67840
82811	aactgtggacactatcaatggtgcc	U67840
82812	cttgaaatctatgacctcaacttttt	U67840
82813	atctatgacctcaacttttcaaaag	U67840
82814	tatgacctcaacttttcaaaagact	U67840
82815	actcgccacagtcaccagcggtgtg	U67840
82816	ccgcgtccagctacctggagaactc	U67840
82817	cgtccagctacctggagaactcggc	U67840
82818	gctacctggagaactcggcttcctg	U67840
82819	ggtacccaagcgcagccagctcaat	U67840
82820	acccaagcgcagccagctcaatcaa	U67840
82821	caagcgcagccagctcaatcaattc	U67840
82822	tggcctccgggacgctttattagat	U67840
82823	aggctttaaaccatcgctttcagca	U67841
82824	taaaccatcgctttcagcagactca	U67841
82825	ccaacagctacatgccggggtattc	U67841
82826	ggtattcacactggtattcctcacc	U67841
82827	ccatgcagagaccacagatgatgtg	U67841
82828	gacttctctgagtgaacgcctacgg	U67841
82829	tctgagtgaacgcctacggagcttc	U67841
82830	tgaacgcctacggagcttctgaagg	U67841
82831	cctacggagcttctgaaggagacat	U67841
82832	gagacattctccaccggcagaagaa	U67841
82833	ttctccaccggcagaagaatctgca	U67841
82834	atctgcacaaacatggcagcatttt	U67841
82835	atcgctttcagcagactcaatacct	U67841
82836	tggctgcttccttaggactgacaca	U67841
82837	cttccttaggactgacacaaacaca	U67841
82838	ctccagtgtgggacgtttctgcctc	U67841
82839	acgtttctgcctctgccaagggcgt	U67841
82840	ctgccaagggcgtcagtatgcctcc	U67841
82841	tcagtatgcctcccaacagctacat	U67841
82842	tgcctcccaacagctacatgccggg	U67841
82843	ctactcagctgcatttctggaccta	U57331
82844	agctgcatttctggacctacagcct	U57331
82845	ggcagctctgagtccagctggggcc	U57331
82846	tctgagtccagctggggcctgcttc	U57331
82847	agctctcaccttagtgcgaatggag	U57331
82848	tcctgggggccttgttactagtgca	U57331
82849	tgttactagtgcaagccatgccaat	U57331
82850	tactagtgcaagccatgccaatttg	U57331
82851	tagtgcaagccatgccaatttgttc	U57331
82852	tgcaagccatgccaatttgttctca	U57331
82853	tgccaatttgttctcaggatcagag	U57331
82854	tttgttctcaggatcagagtatttt	U57331
82855	atttctggacctacagcctggacca	U57331
82856	atccaagccaatgtactgagcctcg	U57331
82857	gtaaccctatgccatcttcccttga	U57331
82858	ctggtagcatccgcattgaagtggt	U57331
82859	cccaccaaatggctggcttgggcct	U57331
82860	aaatggctggcttgggcctctcttc	U57331

SEQ ID NO	sequence	DBAxnID
125397	tgcttcatatagcagccgtctatac	W41490
125398	ttcatatagcagccgtctataccag	W41490
125399	atatagcagccgtctataccagacg	W41490
125400	tagcagccgtctataccagacgctt	W41490
125401	cagccgtctataccagacgcttctg	W41490
125402	gaaatctctatcgaccatgacggag	W41490
125403	gccgtctataccagacgcttctgga	W41490
125404	atctctatcgaccatgacggagagg	W41490
125405	tctatcgaccatgacggagaggtgc	W41490
125406	atcgaccatgacggagaggtgcaca	W41490
125407	agcccctgcgtcactgcaacacaga	W41490
125408	ccatccagtgatgctcttgtatctt	W41490
125409	tccagtgatgctcttgtatcttgct	W41490
125410	agtgatgctcttgtatcttgcttca	W41490
125411	tcaatatactcacttctctgcatag	W41543
125412	tcacttctctgcatagcaatggtag	W41543
125413	cttttgctaaagtcactctatgccg	W41543
125414	ttgctaaagtcactctatgccgatt	W41543
125415	ctaaagtcactctatgccgattgtg	W41543
125416	ctctatgccgattgtgatcaacagt	W41543
125417	gatcaacagtctgttagtgttcgat	W41543
125418	gttgatcatctgcacagaatgctat	W41543
125419	ttgtgtatctacatcgagctctaga	W41543
125420	atctacatcgagctctagagcgcgc	W41543
125421	gagctctagagcgcgcggtttgcga	W41543
125422	tgatatctcgcttgacgtcactatg	W41543
125423	cttctctgcatagcaatggtagact	W41543
125424	ctcgcttgacgtcactatgtgtaat	W41543
125425	gattcaactgagtcttgtcaatcta	W41543
125426	tcaactgagtcttgtcaatctatct	W41543
125427	actgagtcttgtcaatctatctgac	W41543
125428	tgatgatatgtctctccaattacac	W41543
125429	tgatatgtctctccaattacacttt	W41543
125430	tctccaattacacttttgctaaagt	W41543
125431	attacacttttgctaaagtcactct	W41543
125432	ctgtgcacactggcgctccagggag	V00835
125433	tgcacactggcgctccagggagctc	V00835
125434	tcaacgtcctgagtaccttctcctc	V00835
125435	tcctgagtaccttctcctcacttac	V00835
125436	tgagtaccttctcctcacttactcc	V00835
125437	cacttactccgtagctccagcttca	V00835
125438	cgtagctccagcttcaccagatctc	V00835
125439	agctccagcttcaccagatctcgga	V00835
125440	agcttcaccagatctcggaatggac	V00835
125441	gtgctgtgcctgatgtgacgaacag	V00835
125442	gcgctgccaccacgtgtaaatagta	V00835
125443	ctgccaccacgtgtaaatagtatcg	V00835
125444	gctggagcaaccgcctgctgggtgc	V00835
125445	tgcgcccggactcgtccaacgacta	V00835
125446	cgtccaacgactataaagagggcag	V00835
125447	ggctgtcctctaagcgtcaccacga	V00835
125448	tgtcctctaagcgtcaccacgactt	V00835
125449	ctaagcgtcaccacgacttcaacgt	V00835
125450	agcgtcaccacgacttcaacgtcct	V00835
125451	gtcaccacgacttcaacgtcctgag	V00835
125452	ccgatctctcgtcgatcttcaaccg	W37014
125453	cctgcgctggcgctgcaaatggcaa	W37014
125454	tcgaagttgttcccaggctggaatc	W37014
125455	gaagttgttcccaggctggaatctg	W37014
125456	agttgttcccaggctggaatctgca	W37014
125457	gttcccaggctggaatctgcaaaga	W37014
125458	tcccaggctggaatctgcaaagagg	W37014
125459	aaattgaagctgctgtgcttatttt	W37014
125460	attgaagctgctgtgcttattttgg	W37014
125461	gctgctgtgcttattttgggccgaa	W37014
125462	tgctgtgcttattttgggccgaagg	W37014
125463	ctatgtaaacctatagccttttgtg	W37014
125464	tgcgctggcgctgcaaatggcaacc	W37014

TABLE 1

SEQ ID NO	sequence	DBAxnID
40257	gtcttcacagtgatgggtcgtgtcc	D90146
40258	cattgctaccttctccaactgggtc	D90146
40259	taccttctccaactgggtcctctgt	D90146
40260	ctccaactgggtcctctgtcagttc	D90146
40261	ctgggtcctctgtcagttctgggaa	D90146
40262	cctctgtcagttctgggaacttcca	D90146
40263	tcagttctgggaacttccaagatct	D90146
40264	acttccaagatcttccttgaactct	D90146
40265	gaactctcacagctttccttctcac	D90146
40266	ttggcacacctggagccaagtggca	X86368
40267	tgctaggcttgtgcgtagaaagcca	X86368
40268	tacatacttcccgaggacctatgac	X86368
40269	tgcaatacaaaacatcaccatccac	X86368
40270	catcaccatccacattgcttaggaa	X86368
40271	catccacattgcttaggaactgcca	X86368
40272	ttaggaactgccagtgttcccagtg	X86368
40273	actgccagtgttcccagtggcgact	X86368
40274	agtgttcccagtggcgactgcgact	X86368
40275	taacatttatctcttgtatatacga	X86368
40276	ttatctcttgtatatacgacgtgtc	X86368
40277	tatacgacgtgtcctactccaacgg	X86368
40278	aaagccagcagcggagtgcgcacta	X86368
40279	gtgttctgctcgcttgacaacacaa	X86368
40280	tgctcgcttgacaacacaaaagtgg	X86368
40281	ggaaaatcctggatctacaagtctt	X86368
40282	tcctggatctacaagtcttgcttgg	X86368
40283	tgcttggtcttgtccgcttcggttg	X86368
40284	gtcttgtccgcttcggttgtggctt	X86368
40285	tccgcttcggttgtggcttccacgg	X86368
40286	cagactttctattgtggcaaaggaa	AA014996
40287	cactgccgtggccaaaataatgtct	AA014996
40288	tgagtccacaagattgattgacctg	AA014996
40289	attgattgacctgtccattcaaaac	AA014996
40290	tgacctgtccattcaaaactaccac	AA014996
40291	cctgtccattcaaaactaccacgtg	AA014996
40292	ctaccacgtgtttctcagatacatc	AA014996
40293	cgtgtttctcagatacatcaccgag	AA014996
40294	gtttctcagatacatcaccgagtta	AA014996
40295	tctcagatacatcaccgagttactg	AA014996
40296	atacatcaccgagttactgagaaag	AA014996
40297	catcaccgagttactgagaaagctg	AA014996
40298	gcagttccactccaatctgcaggat	AA014996
40299	gttccactccaatctgcaggatttt	AA014996
40300	ccactccaatctgcaggatttttca	AA014996
40301	caatctgcaggatttttcagaccaa	AA014996
40302	tttttcagaccaactctctagctac	AA014996
40303	ttcagaccaactctctagctactat	AA014996
40304	agaccaactctctagctactatgaa	AA014996
40305	actctctagctactatgaaaaattt	AA014996
40306	gggactgttgcagccaagtggacca	X89998
40307	tggaccattgacctgaagagcggct	X89998
40308	gccttcttcagtggcaggctgaagg	X89998
40309	ttcagtggcaggctgaaggccagag	X89998
40310	atcatgctgagccagaaactacaga	X89998
40311	cccactgtgtgctgttaaaggagtc	X89998
40312	ttaaatactgtctacccagctgagc	X89998
40313	tacccagctgagccgcagccttctg	X89998
40314	ccttctgcgatccacaggagtgtgc	X89998
40315	aaatcgcttcacatttccagattca	X89998
40316	atttccagattcagataacttgcat	X89998
40317	tcattctgttcatagatctgtatct	X89998
40318	taccaaggccccgcaaagggctctg	X89998
40319	ggccccgcaaagggctctgctgatg	X89998
40320	gcaaagggctctgctgatgtgacca	X89998
40321	gtgaccatcatcatttccgatgagg	X89998
40322	gtggtcttcggcaagcttgacccac	X89998
40323	ttcggcaagcttgacccacagaagg	X89998
40324	gacccacagaaggccttcttcagtg	X89998

SEQ ID NO	sequence	DBAxnID
82861	tttagttcacaccttgatttcactc	U57331
82862	aagctcaggcaaggcagctctgagt	U57331
82863	tccgcaagcccttcagtgacatcat	L28116
82864	agctcgatgacagtgacctggcgct	L28116
82865	ccattctgcgggctctagaattcca	L28116
82866	ctctagaattccatctgcaggtcaa	L28116
82867	tccccaagctgctgcagaagatggc	L28116
82868	agatggcagacctgcggcagctggt	L28116
82869	cagacctgcggcagctggtcactga	L28116
82870	tcactgagcatgcccagatgatgca	L28116
82871	gccacggactgttcagaggaccagc	L28116
82872	gaccagccacaggcactggcagtca	L28116
82873	ccacaggcactggcagtcaagcagc	L28116
82874	ctagagcctactcacaacactccag	L28116
82875	tcgcggccatcattctgtgtggaga	L28116
82876	ccatcattctgtgtggagaccggcc	L28116
82877	accggccaggcctcatgaatgtgcc	L28116
82878	caggcctcatgaatgtgccccaggt	L28116
82879	atgtgccccaggtagaagccatcca	L28116
82880	tagaagccatccaggacaccattct	L28116
82881	ccatccaggacaccattctgcgggc	L28116
82882	aggacaccattctgcgggctctaga	L28116
82883	cagattatctcctatgtaaaggta	U19617
82884	tcctcacaaaattactatcaggtct	U19617
82885	agttctctgctcattaatcttcaga	U19617
82886	ctgctcattaatcttcagaccacag	U19617
82887	ctcattaatcttcagaccacagtta	U19617
82888	attaatcttcagaccacagttacta	U19617
82889	cttcagaccacagttactaaaactg	U19617
82890	cagaccacagttactaaaactgtgg	U19617
82891	tgctattctaagagcatcagggctc	U19617
82892	tattctaagagcatcagggctctga	U19617
82893	ttttctgcaaattctctagtataga	U19617
82894	gaatcctctaaacatttttgtatct	U19617
82895	tactatcaggtctgccataaattct	U19617
82896	tatcaggtctgccataaattcttcc	U19617
82897	caggtctgccataaattcttcctaa	U19617
82898	tgccataaattcttcctaagttctc	U19617
82899	cataaattcttcctaagttctctgc	U19617
82900	aaattcttcctaagttctctgctca	U19617
82901	ttcctaagttctctgctcattaatc	U19617
82902	ctaagttctctgctcattaatcttc	U19617
82903	actgaagtcctcaaaaacatccaga	AA104040
82904	ctgaagtcctcaaaaacatccagaa	AA104040
82905	cctgcccgagttgtatggacaaggt	AA104040
82906	ctgcccgagttgtatggacaaggtc	AA104040
82907	tgtgtcctcagatagagaggctttg	AA104040
82908	agaggctttgtgggtgctattcact	AA104040
82909	tgggtgctattcactcctcagtggg	AA104040
82910	gggtgctattcactcctcagtgggt	AA104040
82911	ttcactcctcagtgggtaaacagga	AA104040
82912	tcactcctcagtgggtaaacaggat	AA104040
82913	cactcctcagtgggtaaacaggatg	AA104040
82914	actcctcagtgggtaaacaggatga	AA104040
82915	tgaagtcctcaaaaacatccagaaa	AA104040
82916	aactgacaagtatgcccgggctgaa	AA104040
82917	actgacaagtatgcccgggctgaac	AA104040
82918	actgaaacctgcccgagttgtatgg	AA104040
82919	ctgaaacctgcccgagttgtatgga	AA104040
82920	tgaaacctgcccgagttgtatggac	AA104040
82921	aacctgcccgagttgtatggacaag	AA104040
82922	acctgcccgagttgtatggacaagg	AA104040
82923	ttttgcacaaagcagtcatctccga	AA104086
82924	ttgcacaaagcagtcatctccgaat	AA104086
82925	agcagtggtctccaatgccataaaa	AA104086
82926	gtggtctccaatgccataaaagata	AA104086
82927	ggtctccaatgccataaaagataaa	AA104086
82928	gggagcccccatatgattgtaccca	AA104086

SEQ ID NO	sequence	DBAxnID
125465	cgctggcgctgcaaatggcaaccat	W37014
125466	cgctgcaaatggcaaccattgaaat	W37014
125467	ctgcaaatggcaaccattgaaattt	W37014
125468	gttcttgtgtcccgttggctgttcg	W37014
125469	tcttgtgtcccgttggctgttcgaa	W37014
125470	ttgtgtcccgttggctgttcgaagt	W37014
125471	gtgtcccgttggctgttcgaagttg	W37014
125472	atcatactgaacaccggaggcagca	W41586
125473	ctgaacaccggaggcagcatgggtg	W41586
125474	atgattggcatgctgctgctcagct	W41586
125475	atgctgctgctcagctcgacaaata	W41586
125476	agctcgacaaatactgctgtaagca	W41586
125477	actcgtcagatcaaatcatcaatta	W41586
125478	aaatcatcaattaccagcgaattca	W41586
125479	tcatcaattaccagcgaattcagag	W41586
125480	tcaattaccagcgaattcagaggat	W41586
125481	aggaacacctactgtcgagagcgtg	W41586
125482	aacacctactgtcgagagcgtgaag	W41586
125483	acctactgtcgagagcgtgaaggat	W41586
125484	aacaccggaggcagcatgggtgaca	W41586
125485	gacaatacctgctaagcaacatgga	W41586
125486	aatacctgctaagcaacatggaagg	W41586
125487	acctgctaagcaacatggaaggtag	W41586
125488	aaggtagccgaatcggcatggagga	W41586
125489	gtagccgaatcggcatggaggacgc	W41586
125490	agacatggtcattcctagatgcata	W41586
125491	catggtcattcctagatgcatatga	W41586
125492	cgcacctacagtgtctcttttccca	W41622
125493	acctacagtgtctcttttcccatgt	W41622
125494	aagatcgcagtcactggcactggtg	W41622
125495	agatcgcagtcactggcactggtgc	W41622
125496	gatcgcagtcactggcactggtgcg	W41622
125497	atcgcagtcactggcactggtgcgc	W41622
125498	cgcagtcactggcactggtgcgcac	W41622
125499	gcagtcactggcactggtgcgcacc	W41622
125500	cagtcactggcactggtgcgcaccc	W41622
125501	agtcactggcactggtgcgcaccct	W41622
125502	cactggtgcgcaccctgccttcaag	W41622
125503	actggtgcgcaccctgccttcaagt	W41622
125504	cctacagtgtctcttttcccatgtt	W41622
125505	ctacagtgtctcttttcccatgttt	W41622
125506	tacagtgtctcttttcccatgttta	W41622
125507	tctcttttcccatgtttaacaagat	W41622
125508	tcttttcccatgtttaacaagatcg	W41622
125509	ttaacaagatcgcagtcactggcac	W41622
125510	taacaagatcgcagtcactggcact	W41622
125511	acaagatcgcagtcactggcactgg	W41622
125512	cgtagcgcatccgcttgccgggagg	M93310
125513	tagcgcatccgcttgccgggaggaa	M93310
125514	cacctgctcggacaaatgcaagtgc	M93310
125515	cctgctcggacaaatgcaagtgcaa	M93310
125516	gcaaatgcacgaactgcaagaagag	M93310
125517	aaatgcacgaactgcaagaagagct	M93310
125518	ccctgccggatgtgagaagtgtgcc	M93310
125519	gaaatgcagctgctgccagtgagga	M93310
125520	aatgcagctgctgccagtgaggacc	M93310
125521	cagctgctgccagtgaggacccaga	M93310
125522	tgctgccagtgaggacccagaccct	M93310
125523	ccacacagcctatgtaaatagtgct	M93310
125524	gcttgccgggaggaaccaagctacg	M93310
125525	caagctacggcggctgctggactgg	M93310
125526	tcctactggtggttcctgcacctgc	M93310
125527	ctactggtggttcctgcacctgctc	M93310
125528	actggtggttcctgcacctgctcgg	M93310
125529	gtggttcctgcacctgctcggacaa	M93310
125530	ggttcctgcacctgctcggacaaat	M93310
125531	cctgcacctgctcggacaaatgcaa	M93310
125532	gcccagcctggcacttcgatgtcag	W41627

TABLE 1

SEQ ID NO	sequence	DBAxnID
40325	cagaaggccttcttcagtggcaggc	X89998
40326	acagatgcgactgcgtcgcctcaat	X80478
40327	gcgactgcgtcgcctcaattctacc	X80478
40328	atttccactcacaacagtggagacc	X80478
40329	actcacaacagtggagacctacaca	X80478
40330	agcctgtgccagcagacacatagcc	X80478
40331	tgccagcagacacatagccatcaga	X80478
40332	cagacacatagccatcagatgtccc	X80478
40333	catcaaagctaccgggactctgcat	X80478
40334	agctaccgggactctgcatagactc	X80478
40335	tctgcatagactctggtctacccgc	X80478
40336	acgtcacatcaataaaacaagctca	X80478
40337	catcaataaaacaagctcatgacac	X80478
40338	gcgtcgcctcaattctaccgcaggc	X80478
40339	atcaataaaacaagctcatgacacc	X80478
40340	ccctacaccagccattaccttgagg	X80478
40341	accagccattaccttgaggccctgg	X80478
40342	ggaagttctacccactaccactgca	X80478
40343	gactgacctagaggtggaagagata	X80478
40344	gatggacacaggccttacatttcca	X80478
40345	cacaggccttacatttccactcaca	X80478
40346	ccttacatttccactcacaacagtg	X80478
40347	gcggtcactccataaacccaagcca	AA015025
40348	ggtcactccataaacccaagccaca	AA015025
40349	tagtgccactagctgagtagtagtc	AA015025
40350	gaagacgtacattccaccatcagtc	AA015025
40351	agacgtacattccaccatcagtcac	AA015025
40352	acgtacattccaccatcagtcacca	AA015025
40353	gtacattccaccatcagtcaccatg	AA015025
40354	attccaccatcagtcaccatggaga	AA015025
40355	tccaccatcagtcaccatggagaga	AA015025
40356	caccatcagtcaccatggagagatc	AA015025
40357	ccatcagtcaccatggagagatcga	AA015025
40358	cagtcaccatggagagatcgatgac	AA015025
40359	tccataaacccaagccacaactaca	AA015025
40360	taaacccaagccacaactacacact	AA015025
40361	agccacaactacacactcccaaaag	AA015025
40362	ctacacactcccaaaaggcttgcca	AA015025
40363	tcccaaaaggcttgccaaagcaggg	AA015025
40364	aaggcttgccaaagcaggggtagtg	AA015025
40365	cttgccaaagcaggggtagtgccac	AA015025
40366	ggtagtgccactagctgagtagtag	AA015025
40367	tcctcagccattgaccaggccaaga	AA015026
40368	cctcagccattgaccaggccaagaa	AA015026
40369	aacagtgaccttagcgccgcgtgcc	AA015026
40370	acagtgaccttagcgccgcgtgcca	AA015026
40371	agtgaccttagcgccgcgtgccact	AA015026
40372	gtgaccttagcgccgcgtgccactt	AA015026
40373	tgaccttagcgccgcgtgccacttc	AA015026
40374	tagcgccgcgtgccacttctcagct	AA015026
40375	agcgccgcgtgccacttctcagctg	AA015026
40376	acgccgagcgtgggaaccattccag	AA015026
40377	ccattccagggactggtaccctgca	AA015026
40378	cattccagggactggtaccctgcac	AA015026
40379	tcagccattgaccaggccaagaaca	AA015026
40380	cagccattgaccaggccaagaacag	AA015026
40381	agccattgaccaggccaagaacagt	AA015026
40382	ccattgaccaggccaagaacagtga	AA015026
40383	cattgaccaggccaagaacagtgac	AA015026
40384	attgaccaggccaagaacagtgacc	AA015026
40385	tgaccaggccaagaacagtgacctt	AA015026
40386	gaacagtgaccttagcgccgcgtgc	AA015026
40387	caccaaagtgcgcaaacaggaaatt	X14836
40388	gtgcgaccctggaatgacagccttt	X14836
40389	ccgcatcactcagtacctggatgca	X14836
40390	cactcagtacctggatgcaggcggc	X14836
40391	gtacctggatgcaggcggcataccc	X14836
40392	gcagatcgtccacttccacagatct	X14836

SEQ ID NO	sequence	DBAxnID
82929	gagcccccatatgattgtacccagg	AA104086
82930	gcccccatatgattgtacccagggt	AA104086
82931	ccccatatgattgtacccagggtgg	AA104086
82932	ccatatgattgtacccagggtggta	AA104086
82933	ccccagctgaaaaacccaggatgtg	AA104086
82934	ctgaaaaacccaggatgtgtcccat	AA104086
82935	gcacaaagcagtcatctccgaatac	AA104086
82936	aacccaggatgtgtcccatgtgtgg	AA104086
82937	aaagcagtcatctccgaatacataa	AA104086
82938	agcagtcatctccgaatacataagc	AA104086
82939	cagtcatctccgaatacataagcaa	AA104086
82940	gtcatctccgaatacataagcaaac	AA104086
82941	catctccgaatacataagcaaacac	AA104086
82942	tctccgaatacataagcaaacacat	AA104086
82943	atggtaaagcctttgcaggaagcag	AA104086
82944	ctgtgccgtatgtcttccggtactt	U58280
82945	atgtcttccggtacttcgtagctga	U58280
82946	caagacttctgagtctctgtaacca	U58280
82947	gacttctgagtctctgtaaccatct	U58280
82948	gtctctgtaaccatctgaagttggt	U58280
82949	tctgtaaccatctgaagttggtttt	U58280
82950	gtaaccatctgaagttggttttcat	U58280
82951	tctttctgggcccaggttcactgct	U58280
82952	ttctgggcccaggttcactgctccc	U58280
82953	tgctccctgctttcagtagcagagg	U58280
82954	ctgctttcagtagcagagggtgtct	U58280
82955	tgttatccagagcaggccagtacaa	U58280
82956	tcttccggtacttcgtagctgagct	U58280
82957	ggtacttcgtagctgagctggcagc	U58280
82958	agctggcagccatgaacatcaaagt	U58280
82959	cccgccatctgagctaggagataag	U58280
82960	taagcacaggaggtgtcctgtataa	U58280
82961	gtgtcctgtataacacaagtgaggg	U58280
82962	ttatgggctcactctgggtctatac	U58280
82963	gctcactctgggtctatacaagaat	U58280
82964	ctgaaggccttttctcatctctggg	U66900
82965	actccttgcagacttttgtgccaca	U66900
82966	gctacttactggcctggtctggctg	U66900
82967	tactggcctggtctggctgaacact	U66900
82968	ctggctgaacactgccttatggcca	U66900
82969	tgccttatggccaggatagtgtttc	U66900
82970	gtgtttcactgttaccagaataagc	U66900
82971	cccatctcaaggggataggtcatgg	U66900
82972	gtcatggctgctcacttcctggatg	U66900
82973	cacttcctggatgcagggcagtacc	U66900
82974	gcagcacaccctgctggcaacaatt	U66900
82975	caccctgctggcaacaattaaagca	U66900
82976	cttttgtgccacagcctggcctgga	U66900
82977	ccctcaaggcgcttcgtgactttgc	U66900
82978	cccgctttgttcagactgtctgtga	U66900
82979	agactgtctgtgagggagatgactg	U66900
82980	atgactgccagccggtgtacactta	U66900
82981	acaacaacatcacttgtgctggccc	U66900
82982	tcgaccttcgagacatcagtgaaac	U66900
82983	gtgaaacactctttgtgcactgctg	U66900
82984	tgatctcgtccagttcggcaaccct	D43797
82985	gttcggcaaccctgccagttacatt	D43797
82986	ttacagccaccgctgccagcattgg	D43797
82987	aggctggcctggtgaccatggtgat	D43797
82988	aggacgtcaccctgatcattgctgt	D43797
82989	tcaccctgatcattgctgttgactg	D43797
82990	tggaccggttcaggaccatggtgaa	D43797
82991	tggtgaacgtcctgggtgatgcgtt	D43797
82992	agaagctctcgaagaaggagctgga	D43797
82993	tcaacatcgtgaaccccttgcctt	D43797
82994	ccctcgataacgaagactcagatac	D43797
82995	agtcttatgtcaatgggggcttcgc	D43797
82996	caaccctgccagttacattccgctg	D43797

SEQ ID NO	sequence	DBAxnID
125533	cagcctggcacttcgatgtcagttg	W41627
125534	gtcacctcagtggacctctgaatgg	W41627
125535	acctcagtggacctctgaatggacc	W41627
125536	tcagtggacctctgaatggacctgg	W41627
125537	ctctgaatggacctggtgagaagag	W41627
125538	agagttcaactcatgactcgataag	W41627
125539	caactcatgactcgataagcagagc	W41627
125540	ctcatgactcgataagcagagccat	W41627
125541	taagcagagccatgtacagtggtcc	W41627
125542	tgtacagtggtccgaggtaaaatgc	W41627
125543	atgctgcagactgactatgaacgag	W41627
125544	cctggcacttcgatgtcagttgaca	W41627
125545	ggcacttcgatgtcagttgacaaca	W41627
125546	acttcgatgtcagttgacaacagtg	W41627
125547	gttgacaacagtgcaactgtaaacc	W41627
125548	agtgcaactgtaaaccctcaggtct	W41627
125549	ctacttctgaaaaccgtcacctcag	W41627
125550	cttctgaaaaccgtcacctcagtgg	W41627
125551	accgtcacctcagtggacctctgaa	W41627
125552	ctgccagggcttgactcaggactga	M38337
125553	cttgactcaggactgaagggagccc	M38337
125554	ctcttgacccttgcactggagcctc	M38337
125555	ttgacccttgcactggagcctcagt	M38337
125556	acccttgcactggagcctcagttga	M38337
125557	ctggagcctcagttgacaaggagac	M38337
125558	acctctgctggcttgctacccaagt	M38337
125559	tctgctggcttgctacccaagttaa	M38337
125560	gctggcttgctacccaagttaacaa	M38337
125561	ttgctacccaagttaacaagcagat	M38337
125562	agattccaaaatacattcgtgttct	M38337
125563	ttccaaaatacattcgtgttctcca	M38337
125564	ttcctccatgttccattccgggaag	M38337
125565	gtccgcttgctgtcccttgggtcac	M38337
125566	tcccttgggtcaccaggtcctgcct	M38337
125567	gggtcaccaggtcctgcctcctatc	M38337
125568	tatctcctgagacgcctcttgaccc	M38337
125569	ctcctgagacgcctcttgacccttg	M38337
125570	ctgagacgcctcttgacccttgcac	M38337
125571	agacgcctcttgacccttgcactgg	M38337
125572	gacctgaaactggcccaagagtcca	W40629
125573	cctgaaactggcccaagagtccaca	W40629
125574	cgataaacagcagcttgatgagaaa	W40629
125575	gtttgaaatcagcaacctgataagc	W40629
125576	tttgaaatcagcaacctgataagca	W40629
125577	tgaaatcagcaacctgataagcaaa	W40629
125578	aatcagcaacctgataagcaaaatt	W40629
125579	atcagcaacctgataagcaaaattg	W40629
125580	tgtggagatccagctgcagaagaag	W40629
125581	gatccagctgcagaagaagatcaaa	W40629
125582	aatcgaggcagagcgggcctccagg	W40629
125583	ggcctccagggccaaagcagagaag	W40629
125584	ctgaaactggcccaagagtccacaa	W40629
125585	gaaactggcccaagagtccacaatg	W40629
125586	aaactggcccaagagtccacaatgg	W40629
125587	actggcccaagagtccacaatggac	W40629
125588	ggcccaagagtccacaatggacata	W40629
125589	gcccaagagtccacaatggacatag	W40629
125590	agagtccacaatggacatagaaaac	W40629
125591	gagtccacaatggacatagaaaacg	W40629
125592	ttgaatggctctcctagtcagagct	M81342
125593	cctagtcagagctggctccagggag	M81342
125594	atagcctagactgctacctttcaaa	M81342
125595	tagactgctacctttcaaagcttgg	M81342
125596	ctgtcactgggccctaggcttgggt	M81342
125597	caaccagcagggtcaggacagtggc	M81342
125598	tcaggacagtggctcagggtgactt	M81342
125599	gtgactttcttggggcctagcacat	M81342
125600	ttcttggggcctagcacatggtttg	M81342

TABLE 1

SEQ ID NO	sequence	DBAxnID
40393	gtccctgcgtcctcgttcgcagaga	X14836
40394	tcgttcgcagagatccgctctttgt	X14836
40395	gcagagatccgctctttgtccgtgg	X14836
40396	atccgctctttgtccgtggaatgtg	X14836
40397	tctttgtccgtggaatgtggctgct	X14836
40398	tccgtggaatgtggctgctggttct	X14836
40399	ccctggaatgacagcctttgaacca	X14836
40400	aatgtggctgctggttctcctttgg	X14836
40401	aatgacagcctttgaaccagaggcc	X14836
40402	gggcctggactttcatcgattctat	X14836
40403	ggactttcatcgattctattttgaa	X14836
40404	tcatcgattctattttgaaaacttg	X14836
40405	catccacctgatgggtgacgagtca	X14836
40406	cgagtcagcctgcatcgcctatatc	X14836
40407	agcctgcatcgcctatatccgcatc	X14836
40408	ccatcattacacatacacaagtttt	Z54283
40409	ttacacatacacaagttttagtctg	Z54283
40410	ccagctacttgggagtttgaggcaa	Z54283
40411	ttcttatcttgagacctcacgtctt	Z54283
40412	tcttgagacctcacgtcttggctgc	Z54283
40413	gacctcacgtcttggctgcaggcat	Z54283
40414	tggctgcaggcatccaaacagattt	Z54283
40415	caggcatccaaacagatttcctcca	Z54283
40416	tccaaacagatttcctccagagcct	Z54283
40417	tcctccagagcctcatttgcaacat	Z54283
40418	agagcctcatttgcaacattttcaa	Z54283
40419	tcatttgcaacattttcaataaaga	Z54283
40420	tagaaccaatagatcttctagaaat	Z54283
40421	ctctttctttctgcttccaatgaaa	Z54283
40422	ctttctgcttccaatgaaaacttag	Z54283
40423	gattcagacatctcattatctacct	Z54283
40424	tcattatctacctgaagtcctggta	Z54283
40425	tgaagtcctggtatacttagcttga	Z54283
40426	ttctgttggtggttaccatgaacaa	Z54283
40427	gatttcccagctacttgggagtttg	Z54283
40428	atatacatccaagtggacgaatgac	X96639
40429	ctactccatggtgttgacaggagct	X96639
40430	ctttgcccagcgacagagctgcatg	X96639
40431	ccagcgacagagctgcatgaataca	X96639
40432	gaatacatttgccagctggtttggc	X96639
40433	atttgccagctggtttggctacatg	X96639
40434	gtttggctacatgccgctgatccat	X96639
40435	gatccattctcagatgaggctggac	X96639
40436	taaagaccaagtctcaattctgagg	X96639
40437	ccaagtctcaattctgaggaagaaa	X96639
40438	tggagccagactgtgccaagtatca	X96639
40439	cagactgtgccaagtatcaaaaaat	X96639
40440	aggagctgctatctaccacaaatat	X96639
40441	ttatcactacctgtattcccattac	X96639
40442	cctgccagccagcctgaagaacatg	X96639
40443	ccaactggccaactgtgaggacatt	X96639
40444	tctcatgaatttcctggtgtctgct	X96639
40445	gaatttcctggtgtctgctgtgaca	X96639
40446	gcctccaatcaaagtgacccagaag	X96639
40447	tgaccactttgcccagcgacagagc	X96639
40448	agatgtaccagcagaagcagaaaga	AA014138
40449	gggcaagtccaccaagcaagcggaa	AA014138
40450	agtcctgactcgaaaacagcagaag	AA014138
40451	gtcctgactcgaaaacagcagaagt	AA014138
40452	tcctgactcgaaaacagcagaagtg	AA014138
40453	cctgactcgaaaacagcagaagtgc	AA014138
40454	aaggagtacaccgtgcgcttcacct	AA014138
40455	aggagtacaccgtgcgcttcacctt	AA014138
40456	ggagtacaccgtgcgcttcaccttc	AA014138
40457	gagtacaccgtgcgcttcaccttcc	AA014138
40458	agcccacctgtgctgggcctgcacg	AA014138
40459	tgctgggcctgcacggtgtgacgtt	AA014138
40460	ggcaagtccaccaagcaagcggaaa	AA014138

SEQ ID NO	sequence	DBAxnID
82997	gttcacccagacctcacagttctag	D43797
82998	tgcctgttggtgccaccatcaacat	D43797
82999	ttggtgccaccatcaacatggacgg	D43797
83000	gcactgcgctctacgaagctgtggc	D43797
83001	acgaagctgtggcagccgtgtttat	D43797
83002	ctgtggcagccgtgtttattgcgca	D43797
83003	ttgcgcaactgaatggcttggacct	D43797
83004	atggcttggacctaagcattgggca	D43797
83005	acgtgtggtccgcagccgagagatc	AA104076
83006	agagatctttgactcctatattatg	AA104076
83007	tccctttcaaagaatgctacggag	AA104076
83008	tgtccagggccacctgatgaagaag	AA104076
83009	ccagggccacctgatgaagaagcag	AA104076
83010	gcaggttgctccagatctcttacag	AA104076
83011	ggttgctccagatctcttacaggca	AA104076
83012	tgctccagatctcttacaggcatac	AA104076
83013	tccagatctcttacaggcatacatt	AA104076
83014	tctcttacaggcatacattgaggag	AA104076
83015	cttacaggcatacattgaggagatt	AA104076
83016	gatttgtcagaacctccgagaggac	AA104076
83017	gatctttgactcctatattatgaaa	AA104076
83018	ttgtcagaacctccgagaggacgtg	AA104076
83019	gaaagaactgctggcctgcacacat	AA104076
83020	agaactgctggcctgcacacatccc	AA104076
83021	actgctggcctgcacacatcccttt	AA104076
83022	gctggcctgcacacatccctttca	AA104076
83023	ctgcacacatccctttttcaaagaat	AA104076
83024	cacacatccctttttcaaagaatgct	AA104076
83025	acatccctttttcaaagaatgctacg	AA104076
83026	gctcccacatacgccgatctgtgga	AA104153
83027	tggaagtccggcagggatgtctata	AA104153
83028	accaccagagtgaacgggcagccat	AA104153
83029	ccaccagagtgaacgggcagccatg	AA104153
83030	tgaacgggcagccatggaaacccga	AA104153
83031	gcagccatggaaacccgagtacaag	AA104153
83032	catggaaacccgagtacaagatggc	AA104153
83033	tggaaacccgagtacaagatggcgc	AA104153
83034	ggaaacccgagtacaagatggcgct	AA104153
83035	gaaacccgagtacaagatggcgctg	AA104153
83036	gtacaagatggcgctgaggtatgag	AA104153
83037	tacaagatggcgctgaggtatgagg	AA104153
83038	gaagtccggcagggatgtctatacc	AA104153
83039	attagacgtaccagcgcaggctctg	AA104153
83040	ttagacgtaccagcgcaggctctgc	AA104153
83041	tagacgtaccagcgcaggctctgcc	AA104153
83042	agacgtaccagcgcaggctctgcca	AA104153
83043	ggaaaccaccagagtgaacgggcag	AA104153
83044	gaaaccaccagagtgaacgggcagc	AA104153
83045	aaccaccagagtgaacgggcagcca	AA104153
83046	ataggccacagagtactggattcac	AA104160
83047	gtactggattcacgggcacaatcaa	AA104160
83048	catctgggaacctcttgatttgaga	AA104160
83049	ctgggaacctcttgatttgagaggt	AA104160
83050	cacacaatattctctcatcatgctg	AA104160
83051	acaatattctctcatcatgctgagg	AA104160
83052	atattctctcatcatgctgaggctc	AA104160
83053	ttctctcatcatgctgaggctcctc	AA104160
83054	tctcatcatgctgaggctcctcagt	AA104160
83055	catcatgctgaggctcctcagttat	AA104160
83056	gctgaggctcctcagttatagagat	AA104160
83057	gaggctcctcagttatagagatgag	AA104160
83058	ctggattcacgggcacaatcaaaat	AA104160
83059	gattcacgggcacaatcaaaattcc	AA104160
83060	ttggtcccagaactttggcagaatc	AA104160
83061	gtcccagaactttggcagaatcact	AA104160
83062	cagaatcactgatgtcatctgggaa	AA104160
83063	aatcactgatgtcatctgggaacct	AA104160
83064	tgatgtcatctgggaacctcttgat	AA104160

SEQ ID NO	sequence	DBAxnID
125601	gggcctagcacatggtttgtcagcc	M81342
125602	gtcagcccacactggcagatgtggt	M81342
125603	ccacactggcagatgtggttttgtt	M81342
125604	attattctaattgctatgtattcca	M81342
125605	ctaattgctatgtattccaggcagg	M81342
125606	tattccaggcaggagcctgtgccca	M81342
125607	ggcttaacacttcctatgcagtgct	M81342
125608	acacttcctatgcagtgcttctaga	M81342
125609	cctatgcagtgcttctagacttta	M81342
125610	ttctagacttttatagcctagactg	M81342
125611	acttttatagcctagactgctacct	M81342
125612	ttggccacactctgcctcttcagga	W40642
125613	acactctgcctcttcaggaggcctg	W40642
125614	acaatgactcgcatgctggacctgg	W40642
125615	cgcatgctggacctgggcctgtttc	W40642
125616	atgctggacctgggcctgtttctgg	W40642
125617	gcaggcctcctcactgtgaaaggtc	W40642
125618	ctcctgcaggacagagatgctccag	W40642
125619	atgtatgattctccagtcagggtcc	W40642
125620	tctccagtcagggtccaagagtgga	W40642
125621	cagcttgctcgacacaacatggaat	W40642
125622	cttgctcgacacaacatggaatttg	W40642
125623	gctcgacacaacatggaatttggct	W40642
125624	ttcaggaggcctggaggtataaata	W40642
125625	ccgtttggccctgtggatggcgcct	W40642
125626	tttggccctgtggatggcgcctgga	W40642
125627	gatggcgcctggacccactgataat	W40642
125628	tggacccactgataatccccaagga	W40642
125629	tgataatccccaaggacaatgactc	W40642
125630	tccccaaggacaatgactcgcatgc	W40642
125631	aggacaatgactcgcatgctggacc	W40642
125632	cacccagcagctcagcctggcagag	M55637
125633	catcctctttctcagagaaggctct	M55637
125634	ctcacaccaacactgagctgctaaa	M55637
125635	ccaacactgagctgctaaatctccg	M55637
125636	ctgagctgctaaatctccggtctcc	M55637
125637	tcacagcatgcacacacaaacctgg	M55637
125638	catgcacacacaaacctggtttatg	M55637
125639	cacacaaacctggtttatgtggcgt	M55637
125640	aacctggtttatgtggcgttgtgat	M55637
125641	aggcataggctggcatttgggtgtt	M55637
125642	cataggctggcatttgggtgttcta	M55637
125643	gcatttgggtgttctatgggtgttt	M55637
125644	ctttctcagagaaggctctgtcggc	M55637
125645	ccacctgcagctcatgaagagagga	M55637
125646	ctaccgggccatggtagaggctctt	M55637
125647	agactgacaaggcctctggactgca	M55637
125648	acaaggcctctggactgcacactgc	M55637
125649	cctctggactgcacactgcgtgctg	M55637
125650	ctcctgtcctctactctgtgtgaca	M55637
125651	tcctctactctgtgtgacagagaac	M55637
125652	tcagtgggaccgtggtctagctttc	L04262
125653	tggtctagctttcctagttccagga	L04262
125654	tagtcttcagcaggttttatgaaaa	L04262
125655	tcttcagcaggttttatgaaaatac	L04262
125656	atgaaaatactgagcccttagtcat	L04262
125657	atactgagcccttagtcatgaacta	L04262
125658	ctgagcccttagtcatgaactactt	L04262
125659	agcccttagtcatgaactactttag	L04262
125660	ttacccactttatgtatgcttcatt	L04262
125661	gtcctagccagcttttgaacacaga	L04262
125662	ctagccagcttttgaacacagattt	L04262
125663	tgcttgctgtgtagtaggggacatg	L04262
125664	tctagctttcctagttccaggaaat	L04262
125665	attattcgctaggcactctttgtaa	L04262
125666	attcgctaggcactctttgtaacag	L04262
125667	cgctaggcactctttgtaacagtag	L04262
125668	gcactctttgtaacagtagtgtggt	L04262

TABLE 1

SEQ ID NO	sequence	DBAxnID
40461	gcaagtccaccaagcaagcggaaaa	AA014138
40462	caagtccaccaagcaagcggaaaag	AA014138
40463	agtccaccaagcaagcggaaaagca	AA014138
40464	tccaccaagcaagcggaaaagcaaa	AA014138
40465	aggaagtcctgactcgaaaacagca	AA014138
40466	gaagtcctgactcgaaaacagcaga	AA014138
40467	aagtcctgactcgaaaacagcagaa	AA014138
40468	ctttcatcttcctcattcactgtct	X93328
40469	tcttcctcattcactgtctgctcaa	X93328
40470	tggaaccaaactccaggagtttcat	X93328
40471	tcttttgtgccttacaactatgaag	X93328
40472	gtgccttacaactatgaagctccac	X93328
40473	tatgaagctccacatgttttgaaaa	X93328
40474	gctccacatgttttgaaaagagcac	X93328
40475	gtgtttcctatgcactttcttgtgg	X93328
40476	cctatgcactttcttgtggtgttcc	X93328
40477	cactttcttgtggtgttccagaaat	X93328
40478	ttttcatttaatacccatcaagcag	X93328
40479	tttaatacccatcaagcagtaaaca	X93328
40480	tcattcactgtctgctcaaccgtca	X93328
40481	tcctcaccaggaagactgaccttag	X93328
40482	agactgaccttagctcccattccca	X93328
40483	agacttctgggattttactgtcatc	X93328
40484	tgtcatctatgccatccacttccaa	X93328
40485	ctatgccatccacttccaagatggg	X93328
40486	catccacttccaagatgggttaaca	X93328
40487	tttttagctcaaaacatggatagat	X93328
40488	gatcatgacccaggtgggcaacaga	X95280
40489	caacagagtcacatgctgtttcaag	X95280
40490	cctacacagatcacctaaggggtct	X95280
40491	tgatttgctgctgtgcacacactgt	X95280
40492	tttgctgctgtgcacacactgtgat	X95280
40493	gtgcacacactgtgatttgccctag	X95280
40494	tgatttgccctagctgtgcgatgca	X95280
40495	tttgccctagctgtgcgatgcaatc	X95280
40496	gccctagctgtgcgatgcaatcaag	X95280
40497	ggagctatcacttttcattagagaa	X95280
40498	atcacttttcattagagaaggagac	X95280
40499	atgactatcgttttgcattttgaaa	X95280
40500	agtcacatgctgtttcaaggtgcca	X95280
40501	atgctgtttcaaggtgccaccgaat	X95280
40502	tttcaaggtgccaccgaatccagaa	X95280
40503	caaggtgccaccgaatccagaactg	X95280
40504	gaatccagaactgaccctacacaga	X95280
40505	tccagaactgaccctacacagatca	X95280
40506	actgaccctacacagatcacctaag	X95280
40507	gaccctacacagatcacctaagggg	X95280
40508	ccattcagtttccatgttaagctaa	X02452
40509	ataatagcttttcctggtaaggcag	X02452
40510	tactggtttcagcactgctgcattc	X02452
40511	cagcactgctgcattcaatgtggcg	X02452
40512	attcaatgtggcgacgcattgtttg	X02452
40513	caatgtggcgacgcattgtttggtc	X02452
40514	tgtggcgacgcattgtttggtcaac	X02452
40515	ttgtttggtcaacataggggcataa	X02452
40516	agtataatgcattctcaccatgtaa	X02452
40517	ataatgcattctcaccatgtaacag	X02452
40518	atgcattctcaccatgtaacagtcc	X02452
40519	acagtcctactgacaaatcaagaaa	X02452
40520	tttcctggtaaggcagacccagtat	X02452
40521	aaggcagacccagtatgaaatagta	X02452
40522	acagttatagcttggcaggtgttga	X02452
40523	atagcttggcaggtgttgaggagac	X02452
40524	tgggccttacatgacctgtgacgct	X02452
40525	gccttacatgacctgtgacgctact	X02452
40526	catgacctgtgacgctactggtttc	X02452
40527	cgctactggtttcagcactgctgca	X02452
40528	gaagtgtcccatctgcgagaaggtg	AA014909

SEQ ID NO	sequence	DBAxnID
83065	tgtcatctgggaacctcttgatttg	AA104160
83066	ccagcacacacagtaagactcagct	D86176
83067	ctcagctggaccttgaagcccgcaa	D86176
83068	cctataggctctctcggtgtttcat	D86176
83069	ctcggtgtttcattctgcatgcata	D86176
83070	gtttcattctgcatgcatagagtga	D86176
83071	attacaaataggcaacctatggaat	D86176
83072	caacctatggaatctgcttctatat	D86176
83073	gatctaaatcctctctctttgtttc	D86176
83074	ttctaatcatagcccctgtcattga	D86176
83075	tcattgaaagcttcaatctgttttc	D86176
83076	tcaatctgttttcctttaaagatca	D86176
83077	gtatatacattgtctttggaatatt	D86176
83078	tggaccttgaagcccgcaagatgcc	D86176
83079	tgctgcttgctgaccatgaagacct	D86176
83080	ttgctgaccatgaagacctgcatga	D86176
83081	tgcatgacctctgtctaagccgctt	D86176
83082	gtctaagccgcttttctacaccatg	D86176
83083	tttctacaccatggccaatcaccct	D86176
83084	caccatggccaatcacccttttgga	D86176
83085	aagcgctattttcctataggctctc	D86176
83086	tggacaacctttgcaaatactaaat	D86177
83087	ttcaaccttggaaaagcttgatgtt	D86177
83088	tagtgcctttgacagttgaggacag	D86177
83089	attttccactgcctgccatggcttc	D86177
83090	ctgccatggcttctatagctgaata	D86177
83091	cctttctcctggagctggactcttc	D86177
83092	tcctggagctggactcttcatttcc	D86177
83093	agctggactcttcatttcctcagga	D86177
83094	actcttcatttcctcaggacggact	D86177
83095	ctcaggacggactgactggacattg	D86177
83096	tgactggacattgttcctgccattg	D86177
83097	actcccaatgatttgtataaaggtg	D86177
83098	gtcagagttcacccactgagcagtg	D86177
83099	ccactgagcagtgagcctcagaaga	D86177
83100	gagcctcagaagacctgaaacaaga	D86177
83101	agcccttgccccaggaatgctgaat	D86177
83102	tgccccaggaatgctgaatcgtctt	D86177
83103	tcttggtcatcaacagaggagagaa	D86177
83104	agctagcagggctctgacactgtct	D86177
83105	tcctctgggcagtagtgcctttgac	D86177
83106	actcccaatgtcggagagcaaccgc	D43694
83107	cccacagcttcctgcaaaaatgacc	D43694
83108	tctcccagatcccacagaagtgacg	D43694
83109	agatcccacagaagtgacggagagt	D43694
83110	tacagtgactctgatgaggccagtt	D43694
83111	gactctgatgaggccagttaggaag	D43694
83112	ggcaacagctccctgaaaactgaga	D43694
83113	agctccctgaaaactgagacaacca	D43694
83114	actgagacaaccaaatgcccttcct	D43694
83115	gtgacaaatatccctgcacccttta	D43694
83116	tggtctgtggtgatcgttgttagca	D43694
83117	gttagcaacgacttgacttcggacg	D43694
83118	gcttcctgcaaaaatgaccaccatc	D43694
83119	acgacttgacttcggacggctgcag	D43694
83120	tgcaaaaatgaccaccatcaccttc	D43694
83121	cacttcccagccttcgaggacaggg	D43694
83122	gacagggccctaacagcgatgatgg	D43694
83123	gccctaacagcgatgatggcacaga	D43694
83124	aaggacctgtcgccttcgctgcccg	D43694
83125	atcctgcagcctgtacaggaggaca	D43694
83126	aacagcaaaacatctcccagatccc	D43694
83127	caggctcatgtactgctacatcccc	U51908
83128	ctgctacatccccgatgatggatgg	U51908
83129	tgtcagctcggcagtgaccccagtc	U51908
83130	cacacccatcagataagccatgcca	U51908
83131	catcagataagccatgccattacta	U51908
83132	ataagccatgccattactaacagtc	U51908

SEQ ID NO	sequence	DBAxnID
125669	atcattccctgtgttcattctctcc	L04262
125670	attgatcattagtcttcagcaggtt	L04262
125671	gatcattagtcttcagcaggtttta	L04262
125672	aatctcctgagtccatcactagtat	J00398
125673	ctgagtccatcactagtattgatcc	J00398
125674	tcatctcagcggagacctcatcttc	J00398
125675	catcttcttcagtttccagcattaa	J00398
125676	cttcagtttccagcattaagcctca	J00398
125677	tttccagcattaagcctcaagaatg	J00398
125678	gcattaagcctcaagaatggcggca	J00398
125679	aggttctctgatctaatgtctggct	J00398
125680	atctatattctatcttccaccattt	J00398
125681	aattcctctgtgacaaatatcacaa	J00398
125682	atcacaaagttcttcctccgctgtg	J00398
125683	agtcatcttctccaaactgtgtttt	J00398
125684	ccatcactagtattgatcctttagt	J00398
125685	agggctctcagttcttactgtgacc	J00398
125686	tcttactgtgacctccttgataatt	J00398
125687	ctccttgataattttgtgtgtccca	J00398
125688	ggcaatgccttcagttaaagttcag	J00398
125689	acagcgtctgaggctacccctttca	J00398
125690	tctgaggctacccctttcagttgtt	J00398
125691	agttgttcatctcagcggagacctc	J00398
125692	tgtaaaggcggcactcctggggctg	M27034
125693	gacttcacagtgatggttcatgact	M27034
125694	ctgatgttccctgtgagcttatggg	M27034
125695	attgatgatccagccaaacactggg	M27034
125696	gatgatccagccaaacactggggga	M27034
125697	ccagccaaacactgggggacatctg	M27034
125698	gcatcctgtcagctccatgatgcct	M27034
125699	ctccatgatgccttgacattcaact	M27034
125700	catgatgccttgacattcaactcct	M27034
125701	tcctcacttccatgccaagaataag	M27034
125702	tcacttccatgccaagaataagaac	M27034
125703	cttccatgccaagaataagaacttg	M27034
125704	atggttcatgactctcattctctac	M27034
125705	gttcatgactctcattctctaccgt	M27034
125706	tctcattctctaccgtgaagacacc	M27034
125707	attatgttcaggtctctcctgcgac	M27034
125708	catccagagccctcagttctcttta	M27034
125709	gagccctcagttctctttagacaac	M27034
125710	ccctcagttctctttagacaacatt	M27034
125711	cattgtctgatgttccctgtgagct	M27034
125712	gcggatctcttccattgtatagact	W41575
125713	cggatctcttccattgtatagacta	W41575
125714	tagattacaggcttcagaggatgat	W41575
125715	agattacaggcttcagaggatgatg	W41575
125716	attacaggcttcagaggatgatgta	W41575
125717	ttacaggcttcagaggatgatgtac	W41575
125718	atgatgtacggaccactgatacgca	W41575
125719	tgatgtacggaccactgatacgcat	W41575
125720	gatgtacggaccactgatacgcatg	W41575
125721	atgtacggaccactgatacgcatgt	W41575
125722	tgtacggaccactgatacgcatgtg	W41575
125723	atctgcacagtataagctgctagaa	W41575
125724	ggatctcttccattgtatagactag	W41575
125725	gatctcttccattgtatagactaga	W41575
125726	atctcttccattgtatagactagat	W41575
125727	tctcttccattgtatagactagatt	W41575
125728	ctcttccattgtatagactagatta	W41575
125729	tcttccattgtatagactagattac	W41575
125730	actagattacaggcttcagaggatg	W41575
125731	ctagattacaggcttcagaggatga	W41575
125732	ccgtcagatgtcgggcaaagaccgg	AA008859
125733	gattgaaatcttcccttcgcgaatg	AA008859
125734	tgatgccttaactcttcgatttcga	AA008859
125735	tgccttaactcttcgatttcgacag	AA008859
125736	tcgatttcgacagatcctgaagaag	AA008859

TABLE 1

SEQ ID NO	sequence	DBAxnID
40529	gtgtcccatctgcgagaaggtgatt	AA014909
40530	gacctgaagaaccacatgcgggtgc	AA014909
40531	cacatgcgggtgcacacggggctgc	AA014909
40532	gtgcacacggggctgcggcatacca	AA014909
40533	cacacggggctgcggcataccagtg	AA014909
40534	cataccagtgcgatactgctgcaag	AA014909
40535	accagtgcgatactgctgcaagacc	AA014909
40536	agtgcgatactgctgcaagaccttt	AA014909
40537	gcgatactgctgcaagaccttgtg	AA014909
40538	atactgctgcaagaccttgtgcgc	AA014909
40539	ctgctgcaagaccttgtgcgctcc	AA014909
40540	cacgcacacgggcgagaagcctacg	AA014909
40541	aaagttcgattcaccagacaggaca	AA014909
40542	gttcgattcaccagacaggacaagc	AA014909
40543	ttcaccagacaggacaagctgaagg	AA014909
40544	ccgtacctgtgccagcagtgcgggc	AA014909
40545	cgccttcggcacaactacgacctga	AA014909
40546	cttcggcacaactacgacctgaaga	AA014909
40547	tacgacctgaagaaccacatgcggg	AA014909
40548	ctgcaactgtgttgggagctcagat	AA014142
40549	caactgtgttgggagctcagatctt	AA014142
40550	aaattggcgacgattacagtctctg	AA014142
40551	gcgacgattacagtctctgggtttc	AA014142
40552	attacagtctctgggtttcatctcc	AA014142
40553	acagtctctgggtttcatctcccct	AA014142
40554	gtctctgggtttcatctcccctgaa	AA014142
40555	catctcccctgaaagggcaacatgt	AA014142
40556	aacatgtccgagaacccgtgcataa	AA014142
40557	atgtccgagaacccgtgcataaagt	AA014142
40558	tccgagaacccgtgcataaagttgg	AA014142
40559	tcttggactatgactctggacacat	AA014142
40560	gagctcagatcttcacctgcgggag	AA014142
40561	actctggacacatagccttctacaa	AA014142
40562	agatcttcacctgcgggagacacta	AA014142
40563	tcttcacctgcgggagacactactg	AA014142
40564	tcacctgcgggagacactactggga	AA014142
40565	ggatctgcaaggactctgtgaacag	AA014142
40566	ccggggacctcttctcactcatagg	AA014142
40567	acctcttctcactcataggcttaaa	AA014142
40568	tcttctcactcataggcttaaaaat	AA014142
40569	ccttgccccgttgcatagaaggatt	AA014145
40570	tgccccgttgcatagaaggattcca	AA014145
40571	cagcaggccattgccgagcacgaac	AA014145
40572	gccattgccgagcacgaaccaacgg	AA014145
40573	gagcacgaaccaacggcgctggtag	AA014145
40574	gtagttagtccacttgaggagccaa	AA014145
40575	cttgaggagccaaccccttgtagctg	AA014145
40576	ccaaccccttgtagctgtccagaggt	AA014145
40577	tgagaccatttggacaccaatcccct	AA014145
40578	gaccatttggacaccaatccctgac	AA014145
40579	catttggacaccaatccctgacacc	AA014145
40580	ttggacaccaatccctgacaccgga	AA014145
40581	gattccacaagagtcctctgtttca	AA014145
40582	tccacaagagtcctctgtttcaaag	AA014145
40583	acaagagtcctctgtttcaaagtgt	AA014145
40584	agagtcctctgtttcaaagtgtgtg	AA014145
40585	gtcctctgtttcaaagtgtgtggag	AA014145
40586	ctctgtttcaaagtgtgtggaggcc	AA014145
40587	catttcaccctggtttctgtagtag	AA014145
40588	ggacagcaggccattgccgagcacg	AA014145
40589	tcctccgtgcagcggctgtgagaag	AA061152
40590	gcgccccagaccagagaccgtagct	AA061152
40591	gccttgaactcacagggatcgattg	AA061152
40592	tgaactcacagggatcgattgcctc	AA061152
40593	aactcacagggatcgattgcctctg	AA061152
40594	tcgattgcctctgattcttgaatgc	AA061152
40595	gattgcctctgattcttgaatgcac	AA061152
40596	ttatagccatcatggcgacttcatc	AA061152

SEQ ID NO	sequence	DBAxnID
83133	catgccattactaacagtctaagcg	U51908
83134	ggacctactgacccagcgcagtcat	U51908
83135	actgacccagcgcagtcattgacca	U51908
83136	ccagcgcagtcattgaccagtgcat	U51908
83137	tactgcaggcaagccacgtaacacc	U51908
83138	cagtgccagcctggtacagaaccag	U51908
83139	catccccgatgatggatggactgat	U51908
83140	tgagctctatgacttctatcactat	U51908
83141	ctatgacttctatcactatttctac	U51908
83142	tcactatttctacatggtgaccaac	U51908
83143	tttctacatggtgaccaacacgctc	U51908
83144	catggtgaccaacacgctcttctat	U51908
83145	gaccaacacgctcttctatgtcagc	U51908
83146	cttctatgtcagctcggcagtgacc	U51908
83147	gtctcctagttggatctgtcttcag	AA015331
83148	ctagttggatctgtcttcagcttct	AA015331
83149	ccccgactactgctgccaagatgat	AA015331
83150	cgactactgctgccaagatgatgtg	AA015331
83151	gactactgctgccaagatgatgtgt	AA015331
83152	ctactgctgccaagatgatgtgtgg	AA015331
83153	tactgctgccaagatgatgtgtggc	AA015331
83154	ctgctgccaagatgatgtgtggcgc	AA015331
83155	tgctgccaagatgatgtgtggcgcg	AA015331
83156	taaatgcgtgcacttgagggtgttt	AA015331
83157	aatgcgtgcacttgagggtgtttca	AA015331
83158	atgcgtgcacttgagggtgtttcaa	AA015331
83159	gttggatctgtcttcagcttctccg	AA015331
83160	ttggatctgtcttcagcttctccgt	AA015331
83161	ggatctgtcttcagcttctccgtgc	AA015331
83162	gatctgtcttcagcttctccgtgct	AA015331
83163	tctgtcttcagcttctccgtgctac	AA015331
83164	tgctaccccgactactgctgccaag	AA015331
83165	ctaccccgactactgctgccaagat	AA015331
83166	taccccgactactgctgccaagatg	AA015331
83167	gagtgcttcatggatggctggtgac	U43512
83168	tggtgactgggccttgtgctcccaa	U43512
83169	caggcccaaagtggcctgttgtcat	U43512
83170	caaagtggcctgttgtcatagcaac	U43512
83171	gaataacaacagcaacaatgccttt	U43512
83172	caacagcaacaatgcctttgcaggc	U43512
83173	caacaatgcctttgcaggcagcccc	U43512
83174	cagagagccaatctcacattcaagt	U43512
83175	gccaatctcacattcaagtgttcac	U43512
83176	ctcacattcaagtgttcaccaaccc	U43512
83177	ttcaagtgttcaccaaccctgacgt	U43512
83178	tttctgcattctgtatagaaacata	U43512
83179	ctgggccttgtgctcccaagctctg	U43512
83180	agctggagtttccctgatgtcccag	U43512
83181	agtttccctgatgtcccagagtcaa	U43512
83182	cctgatgtcccagagtcaagagcag	U43512
83183	gtcccagagtcaagagcagggatct	U43512
83184	attatttctggtgacctcatcaaaa	U43512
83185	actcttgttgctcttagcaacccca	U43512
83186	accattgggcattgccatgtagaga	U43512
83187	tgcctgattctactctgcttcccag	L08101
83188	tcttgctctcctgcctgggtccaaa	L08101
83189	aaatctgaccaagtcaagccagaca	L08101
83190	atctgaccaagtcaagccagacagt	L08101
83191	ctgaccaagtcaagccagacagtgg	L08101
83192	tttgtaactggtgcagaagacataa	L08101
83193	gacataatctctggtgccagtcgta	L08101
83194	cataatctctggtgccagtcgtatc	L08101
83195	taatctctggtgccagtcgtatcac	L08101
83196	atctctggtgccagtcgtatcacga	L08101
83197	ctctggtgccagtcgtatcacgaag	L08101
83198	ggtgccagtcgtatcacgaagtcat	L08101
83199	gctctcctgcctgggtccaaagatg	L08101
83200	ccttccatcttcagagaagagctga	L08101

SEQ ID NO	sequence	DBAxnID
125737	atttcgacagatcctgaagaagata	AA008859
125738	gagagaagctgccttctcattggct	AA008859
125739	agaagctgccttctcattggctgag	AA008859
125740	agctgccttctcattggctgaggcc	AA008859
125741	tgccttctcattggctgaggccaaa	AA008859
125742	cttctcattggctgaggccaaattc	AA008859
125743	ctcattggctgaggccaaattcaca	AA008859
125744	tgaaatcttcccttcgcgaatggca	AA008859
125745	tgaggccaaattcacagcaggggac	AA008859
125746	aatcttcccttcgcgaatggcacag	AA008859
125747	cttcccttcgcgaatggcacagacc	AA008859
125748	cccttcgcgaatggcacagaccatc	AA008859
125749	ttcgcgaatggcacagaccatcatg	AA008859
125750	gaccatcatgaaggctcgattaaaa	AA008859
125751	aaagtctgatgccttaactcttcga	AA008859
125752	gtctgatgccttaactcttcgattt	AA008859
125753	aggcagaaggcctccacgcacgaga	W40754
125754	cagaaggcctccacgcacgagacat	W40754
125755	aagcacgaggcctttgagagcgacc	W40754
125756	cacgaggcctttgagagcgacctgg	W40754
125757	gacctggctgcacaccaggaccgcg	W40754
125758	gctgcacaccaggaccgcgtggagc	W40754
125759	caggaccgcgtggagcagatcgctg	W40754
125760	cagatcgctgccattgcgcaggagc	W40754
125761	gctgccattgcgcaggagctcaatg	W40754
125762	attgcgcaggagctcaatgaactgg	W40754
125763	aacgtcaatgatcggtgccagaaaa	W40754
125764	gtcaatgatcggtgccagaaaattt	W40754
125765	gcctccacgcacgagacatgggctt	W40754
125766	atttgcgaccagtgggatagattgg	W40754
125767	acgcacgagacatgggcttatggca	W40754
125768	atcttgctgcagaaggactacgagt	W40754
125769	aaggactacgagtctgcgtccctga	W40754
125770	gactacgagtctgcgtccctgacgg	W40754
125771	cgagccctacttcggaagcacgagg	W40754
125772	gccctacttcggaagcacgaggcct	W40754
125773	ctacttcggaagcacgaggcctttg	W40754
125774	agggttggccaggcagttagcactg	X00702
125775	gcagttagcactgagccttgctccc	X00702
125776	ctgtgctctacaggactcctgagct	X00702
125777	tctacaggactcctgagctgagatg	X00702
125778	ggactcctgagctgagatgaagtaa	X00702
125779	cccgtgtctccatgccatgaaaaca	X00702
125780	tctccatgccatgaaaacatgtcct	X00702
125781	ccagagacactgctcttccaggacc	X00702
125782	caggacctggctcctcctgattctc	X00702
125783	tggagatctgtgctcctgatggctg	X00702
125784	ctcctgatggctgtttatccctgac	X00702
125785	gtttatccctgacccaggccttgca	X00702
125786	agcactgagccttgctccctgcact	X00702
125787	tgctccctgcacttactgaagcctg	X00702
125788	ctgcacttactgaagcctgtgctct	X00702
125789	ttactgaagcctgtgctctgaagca	X00702
125790	aagcctgtgctctgaagcagcaatg	X00702
125791	tctgctcactgccatgctgtaagga	X00702
125792	cactgccatgctgtaaggagaggcc	X00702
125793	tggaaacagccctgtcccctgtgct	X00702
125794	ctcaatcatctgtcgtcatcatggt	U18797
125795	tcgtcatcatggtcatcgttgctag	U18797
125796	aaagtgagcagcccagggcatccct	U18797
125797	agcagcccagggcatccctgaggac	U18797
125798	gggcatccctgaggactgagtctcc	U18797
125799	catccctgaggactgagtctcctct	U18797
125800	tttctcacctgtaccacaggggat	U18797
125801	ctcacctgtaccacaggggatcca	U18797
125802	ggatccaggacttcttcatcccttg	U18797
125803	tcttcatcccttgtggaactttagg	U18797
125804	atgggcagcttcttccctattgaaa	U18797

TABLE 1

SEQ ID NO	sequence	DBAxnID
40597	atagccatcatggcgacttcatcag	AA061152
40598	agccatcatggcgacttcatcagaa	AA061152
40599	atcatggcgacttcatcagaagaag	AA061152
40600	catggcgacttcatcagaagaagtg	AA061152
40601	ccacctggttttctctgtataacag	AA061152
40602	ctggttttctctgtataacagccct	AA061152
40603	ttctctgtataacagccctgactgg	AA061152
40604	ctctgtataacagccctgactggcc	AA061152
40605	ctgtataacagccctgactggcctt	AA061152
40606	ataacagccctgactggccttgaac	AA061152
40607	aacagccctgactggccttgaactc	AA061152
40608	gccctgactggccttgaactcacag	AA061152
40609	cagtgtctctttggcctctaagcta	L08061
40610	ctctttggcctctaagctaacagca	L08061
40611	ctttgttcacaatttcagaaacttg	L08061
40612	ctatctggaggtatcttttggcgaa	L08061
40613	tacaaatctattgccattggttaat	L08061
40614	gaagatcatttttcccattgaataa	L08061
40615	catttttcccattgaataatactca	L08061
40616	tgaataatactcacatgctatcaat	L08061
40617	atactcacatgctatcaattaccta	L08061
40618	acatgctatcaattacctagccata	L08061
40619	tatcaattacctagccatagaactt	L08061
40620	atttatctatttcaaatcttgtcaa	L08061
40621	taagctaacagcagggcagttgaga	L08061
40622	tatttcaaatcttgtcaaaacaatg	L08061
40623	tataattccttacaagacacaattc	L08061
40624	tccttacaagacacaattccaaaca	L08061
40625	acaattccaaacaagtagacacacg	L08061
40626	cagaccactcttattccatgctgtc	L08061
40627	actcttattccatgctgtcatatgg	L08061
40628	ttgctccttaaagtctagactcaag	L08061
40629	gtctagactcaagagcccttgaaac	L08061
40630	tccatcacttagacttattcatgca	X86000
40631	acttagacttattcatgcagtcaga	X86000
40632	attctggccatttcccaaggatctg	X86000
40633	ttccaacgccagtcctcacaggatg	X86000
40634	cgccagtcctcacaggatgccatta	X86000
40635	tcctcacaggatgccattagaattt	X86000
40636	ctgggattcagcatccaccacttga	X86000
40637	atccaccacttgactgagtagctga	X86000
40638	aattcaccaccagctgatgaaaacc	X86000
40639	ctgcaagtgctctgactacaacata	X86000
40640	gtgctctgactacaacatattctga	X86000
40641	ctagtaagtgccacttccatgaaga	X86000
40642	acttattcatgcagtcagaggatac	X86000
40643	tcctatcaaaagacctagcacaggt	X86000
40644	acctagcacaggtctcctcatgtat	X86000
40645	catgtatacacttgccaccagattc	X86000
40646	tacacttgccaccagattctgtgat	X86000
40647	tgccaccagattctgtgatgaaatt	X86000
40648	tcacctttatggattctggccattt	X86000
40649	ttatggattctggccatttcccaag	X86000
40650	cctcagctttgatcagctaagatca	AA015059
40651	aagatcatgatcgatcggcgcgtgc	AA015059
40652	ttcgcgctggtcagtttgccagatg	AA015059
40653	gcgctggtcagtttgccagatgact	AA015059
40654	ctggtcagtttgccagatgacttgg	AA015059
40655	agtttgccagatgacttggtcgcag	AA015059
40656	ttgccagatgacttggtcgcagtgt	AA015059
40657	ccagatgacttggtcgcagtgttca	AA015059
40658	gatgacttggtcgcagtgttcagcc	AA015059
40659	gacttggtcgcagtgttcagccgcc	AA015059
40660	ttggtcgcagtgttcagccgccctg	AA015059
40661	cgccctgctttgcccggatacgttg	AA015059
40662	tcgctgctggcgacgcgactctcgt	AA015059
40663	ctggcgacgcgactctcgtaatcat	AA015059
40664	gcgacgcgactctcgtaatcattcc	AA015059
83201	acctcagctgcaaccacctcagagg	L08101
83202	ctcagctgcaaccacctcagaggaa	L08101
83203	gctgcaaccacctcagaggaaaatc	L08101
83204	tgcaaccacctcagaggaaaatctg	L08101
83205	caaccacctcagaggaaaatctgac	L08101
83206	accacctcagaggaaaatctgacca	L08101
83207	tagtccctcggcttcagaagacttc	U63841
83208	tccctcggcttcagaagacttcacc	U63841
83209	ccactaggcctttgtaaggcaacat	U63841
83210	aaggcaacatcaatacattcttcct	U63841
83211	gcaacatcaatacattcttcctccc	U63841
83212	tacccccaagtgaattctgggagct	U63841
83213	acctgaccacttgttaggttgctgc	U63841
83214	ccacttgttaggttgctgcaccctc	U63841
83215	aggttgctgcaccctcgctgaagct	U63841
83216	ttgctgcaccctcgctgaagctgcc	U63841
83217	cgctgaagctgccctcggtctattt	U63841
83218	agctgccctcggtctatttctccac	U63841
83219	ctcggcttcagaagacttcacctat	U63841
83220	ttcagaagacttcacctatggcccg	U63841
83221	agacttcacctatggcccgggcgat	U63841
83222	ctttcctggcctgcccaaagacctg	U63841
83223	gccctgtttcatcccataccactag	U63841
83224	ctgtttcatcccataccactaggcc	U63841
83225	tttcatcccataccactaggccttt	U63841
83226	catcccataccactaggcctttgta	U63841
83227	ttgttagcactcatggtgctccctc	AA104315
83228	taaagttggggctgctatggctacc	AA104315
83229	tctcggacacgggagtcagggtagt	AA104315
83230	tcggacacgggagtcagggtagtca	AA104315
83231	gtagtcaggcccctgacatctgcat	AA104315
83232	gcccctgacatctgcatactgagct	AA104315
83233	ccctgacatctgcatactgagctct	AA104315
83234	gacatctgcatactgagctctgtat	AA104315
83235	tctgcatactgagctctgtattcca	AA104315
83236	tgcatactgagctctgtattccaag	AA104315
83237	catactgagctctgtattccaagtg	AA104315
83238	tactgagctctgtattccaagtgat	AA104315
83239	gctgctatggctaccaaaggatgag	AA104315
83240	ctgagctctgtattccaagtgatgg	AA104315
83241	ctatggctaccaaaggatgagctgg	AA104315
83242	gtgcctgttacatgacactctccac	AA104315
83243	gcctgttacatgacactctccacca	AA104315
83244	ctgttacatgacactctccaccacg	AA104315
83245	gttacatgacactctccaccacgac	AA104315
83246	ccacgacgaccttgctgctctcgga	AA104315
83247	gctctcggacacgggagtcagggta	AA104315
83248	atggctcgcggtaccttctgggaga	AA104319
83249	ggcttttcatgctgctcttagagaa	AA104319
83250	tatttgtcgggtctcgcctaggtga	AA104319
83251	ctcgcctaggtgactcccagctcgt	AA104319
83252	actcccagctcgtaaagctcaatgt	AA104319
83253	cccagctcgtaaagctcaatgtcga	AA104319
83254	agctcgtaaagctcaatgtcgacag	AA104319
83255	tcaatgtcgacagcaacgaacaagg	AA104319
83256	acagcaacgaacaaggctcctatgt	AA104319
83257	gcaacgaacaaggctcctatgtagt	AA104319
83258	ccaatttaggacccattgtggatat	AA104319
83259	atttaggacccattgtggatatgtg	AA104319
83260	ttttcatgctgctcttagagaagga	AA104319
83261	ctgtcaccctcaaggaccttcgagt	AA104319
83262	tcaccctcaaggaccttcgagtgga	AA104319
83263	tcctcggagagacctccattgctga	AA104319
83264	agacctccattgctgagtgcctaac	AA104319
83265	ttgctgagtgcctaacttatcttga	AA104319
83266	ctgagtgcctaacttatcttgataa	AA104319
83267	agtgcctaacttatcttgataatgg	AA104319
83268	gagtccatccatctatgctcctgaa	X87257
125805	gctgtacttcatgctgttaaaagtg	U18797
125806	tcatcatggtcatcgttgctagtct	U18797
125807	tcatcgttgctagtctggttctcct	U18797
125808	tcactattgttgtggtgtgcaagag	U18797
125809	atactcagactgccagcaggaacag	U18797
125810	agactgccagcaggaacagtgatta	U18797
125811	ttctgatgcttctttcaccatttag	U18797
125812	tgatgcttctttcaccatttagaaa	U18797
125813	tttcaccatttagaaagttggcatc	U18797
125814	tgcccaggcggcctgtgcagacgac	U60087
125815	ctgtgcagacgacttcataggggaa	U60087
125816	gcacacggttcagaatgctgaccaa	U60087
125817	tgaccaagttctggtgctcaagcag	U60087
125818	agttctggtgctcaagcagggacgt	U60087
125819	ggagcatgaccagctcagagacggc	U60087
125820	agacggccaggatgtctacgcccac	U60087
125821	ccaggatgtctacgcccacttggta	U60087
125822	tgtctacgcccacttggtacagcag	U60087
125823	gtgaggcctctagaccctgagcccc	U60087
125824	ctctcaggactgtggccaggatcag	U60087
125825	ggatcagacccacagggaccgtgcc	U60087
125826	gaagcaacgtctggccattgcccga	U60087
125827	gaacccacgggtcctcatcctggat	U60087
125828	cctcatcctggatgaggctaccagc	U60087
125829	ggacgcccagtgtgaacaggcccta	U60087
125830	tgaacaggccctacagaactggaga	U60087
125831	ggccctacagaactggagatcgcag	U60087
125832	tgcccacaggctgcacacggttcag	U60087
125833	caggctgcacacggttcagaatgct	U60087
125834	catacctgtggactggccgcgttg	W40858
125835	actggccgcgttgcgctgtgatcag	W40858
125836	gccagaccagagcttctgctaacgt	W40858
125837	agaccagagcttctgctaacgtctt	W40858
125838	ccagagcttctgctaacgtcttcag	W40858
125839	gagcttctgctaacgtcttcagcgg	W40858
125840	cttctgctaacgtcttcagcgggtt	W40858
125841	ctgctaacgtcttcagcgggttgat	W40858
125842	ttcagcaatgagcttcacaagcatt	W40858
125843	aatgagcttcacaagcattatccaa	W40858
125844	gagcttcacaagcattatccaatgg	W40858
125845	cttcacaagcattatccaatggtac	W40858
125846	cgcgttgcgctgtgatcagccatgg	W40858
125847	gttgcgctgtgatcagccatggtcc	W40858
125848	gcgctgtgatcagccatggtcctac	W40858
125849	ctgtgatcagccatggtcctactcc	W40858
125850	tgatcagccatggtcctactcctac	W40858
125851	ctgctgctggagctgactgccagac	W40858
125852	ctgactgccagaccagagcttctgc	W40858
125853	actgccagaccagagcttctgctaa	W40858
125854	ccggagaccaggatgccgcgcagca	
125855	cggagaccaggatgccgcgcagcag	
125856	ttcctgagtttgctcaactgagaag	
125857	tcctgagtttgctcaactgagaaga	
125858	cctgagtttgctcaactgagaagat	
125859	tgagtttgctcaactgagaagattt	
125860	gagtttgctcaactgagaagatttg	
125861	agtttgctcaactgagaagatttga	
125862	gtttgctcaactgagaagatttgag	
125863	tttgctcaactgagaagatttgagc	
125864	ttgctcaactgagaagatttgagcc	
125865	tgctcaactgagaagatttgagccc	
125866	accaggatgccgcgcagcagagctc	
125867	ccaggatgccgcgcagcagagctct	
125868	gatgccgcgcagcagagctctgatt	
125869	atgccgcgcagcagagctctgattc	
125870	tgccgcgcagcagagctctgattct	
125871	ccgcgcagcagagctctgattctgg	
125872	gcgcagcagagctctgattctgggg	

TABLE 1

SEQ ID NO	sequence	DBAxnID
40665	acgcgactctcgtaatcattccggg	AA015059
40666	cgactctcgtaatcattccgggact	AA015059
40667	cctgtacagtgccggctcttcggat	AA015059
40668	ctcttcggataagctttcgcgctgg	AA015059
40669	ggataagctttcgcgctggtcagtt	AA015059
40670	cggcgcgcaccagaactcggcggtg	X94126
40671	gcgccctcggatctctggtcaagtc	X94126
40672	ccaggactccgaggcgctgacacca	X94126
40673	gactccgaggcgctgacaccagact	X94126
40674	ctccgaggcgctgacaccagactgg	X94126
40675	cgctgacaccagactggcctcttag	X94126
40676	ctgacaccagactggcctcttagac	X94126
40677	gacaccagactggcctcttagactg	X94126
40678	caccagactggcctcttagactgaa	X94126
40679	agactggcctcttagactgaacttt	X94126
40680	actggcctcttagactgaactttgg	X94126
40681	tggcctcttagactgaactttggtg	X94126
40682	gccctcggatctctggtcaagtcgg	X94126
40683	ttttcatgagacctttttgtacagta	X94126
40684	cctcggatctctggtcaagtcggag	X94126
40685	ggatctctggtcaagtcggagccga	X94126
40686	tcaagtcggagccgagcggcagtcc	X94126
40687	tcaacggcacggtgcccctgacgca	X94126
40688	gacactgcggcttaaggccggcgcc	X94126
40689	tcgataaaaggccgctctggagagc	X94126
40690	ttccccaggactccgaggcgctgac	X94126
40691	tggacacgtacacgcacgtgaacgg	X94125
40692	gggccaacggcgcctactcgctcgt	X94125
40693	tgcagtacagccccatgatgccacc	X94125
40694	ccggcgcccagagctacatgaacgc	X94125
40695	gctccgtggtgaagtcggagcccag	X94125
40696	tgaagtcggagcccagctctccgcc	X94125
40697	tccgttcgcactcgcagcgcgcgtg	X94125
40698	ggctgcacggcgtgcaccagcacta	X94125
40699	tgcacggcgtgcaccagcactacca	X94125
40700	acggcgtgcaccagcactaccaggg	X94125
40701	gcgtgcaccagcactaccagggcgc	X94125
40702	tcaatggaacggtgccgctgaccca	X94125
40703	acggcgcctactcgctcgtgcagga	X94125
40704	cctactcgctcgtgcaggagcagct	X94125
40705	actcgctcgtgcaggagcagctggg	X94125
40706	tgcctcagatgcaccgctacgacat	X94125
40707	ctcagatgcaccgctacgacatggc	X94125
40708	agatgcaccgctacgacatggccgg	X94125
40709	ccggcctgcagtacagccccatgat	X94125
40710	gcctgcagtacagccccatgatgcc	X94125
40711	gatgtcactgcaagtaccactggtg	X70800
40712	tcacctgccgcaggtgtgagcgcac	X70800
40713	ggaagacaccacaccaggaggcctg	X70800
40714	agacaccacaccaggaggcctggtc	X70800
40715	gccacatgttgccttccaggctgct	X70800
40716	acatgttgccttccaggctgctcca	X70800
40717	tgttgccttccaggctgctccaaga	X70800
40718	ggctgctccaagaagtcagggcagg	X70800
40719	agactgtgcatttgacctttcaagg	X70800
40720	tgacctttcaaggccagaaagaccg	X70800
40721	caccacatggaaccactaacttggg	X70800
40722	cacatggaaccactaacttgggttg	X70800
40723	tggagcgctacgtctgcaagtgaga	X70800
40724	agcgctacgtctgcaagtgagacca	X70800
40725	gaggacccactcaagggcctagaga	X70800
40726	gacccactcaagggcctagagacct	X70800
40727	ctagagaccttggtggacttccctg	X70800
40728	gacttccctgcagatgccagatgcc	X70800
40729	ttccctgcagatgccagatgccagg	X70800
40730	gtgcctccacttggaagacaccaca	X70800
40731	atgctttctctaaagatgaatcata	AA015122
40732	gagcaagcacggactccatactatg	AA015122

SEQ ID NO	sequence	DBAxnID
83269	atccatctatgctcctgaactctcc	X87257
83270	tcctaaaacaagacaatcagggcat	X87257
83271	acaatcagggcatggcttgagagga	X87257
83272	tttatttctcagcctgcccttgggg	X87257
83273	agggtgccctgtcttcattttgcga	X87257
83274	cttcattttgcgacatgggttgaag	X87257
83275	tttgcgacatgggttgaagaactag	X87257
83276	ttattattcctggctgtatctgagt	X87257
83277	ttcctggctgtatctgagtccaggg	X87257
83278	gctgtatctgagtccagggagccct	X87257
83279	tctgagtccagggagcccttgtacg	X87257
83280	tcctgaactctccagttagccatct	X87257
83281	actctccagttagccatctcaagga	X87257
83282	cagttagccatctcaaggagaaaca	X87257
83283	acagacttaagctctgattgtggtg	X87257
83284	gacaacttctttcttctttgccagc	X87257
83285	ttctttcttctttgccagcctccca	X87257
83286	agtggctgcccttacacgtctccta	X87257
83287	tacacgtctcctacttcaatggtgg	X87257
83288	tccacccgaagctgatcatcgcagg	X94478
83289	cgaagctgatcatcgcagggaccag	X94478
83290	gctgccgtgctggtatgatattcta	X94478
83291	agttcccctatgctgggacagacag	X94478
83292	cctatgctgggacagacagtgtggg	X94478
83293	gtgtgggctcacatttcctgtgtgg	X94478
83294	gctcacatttcctgtgtggaagaga	X94478
83295	ctggactgtcacttctgggaaagat	X94478
83296	aagagctcctcaggaagaaataaca	X94478
83297	aggaagccccaaggtcccagctctg	X94478
83298	ggtcccagctctggacacagtattt	X94478
83299	aggcagtgtccacaggaggaaggtc	X94478
83300	ggaccagctgctactcccggaacct	X94478
83301	gctgctactcccggaacctggacta	X94478
83302	tggactacgcacggctgcggaagat	X94478
83303	acgcacggctgcggaagattgcgga	X94478
83304	cgtatctcatggcagacatggcaca	X94478
83305	ccccctttgaacactgccatgtagt	X94478
83306	ttgaacactgccatgtagtgaccac	X94478
83307	cccacaagaccctgagaggctgccg	X94478
83308	tttaattgacactggataggttagg	AA104363
83309	taagcccaggaatctatctgtgttc	AA104363
83310	atgcaccttctataactattgttgt	AA104363
83311	cttagcgttgcacggcaaacatttc	AA104363
83312	agcgttgcacggcaaacatttcact	AA104363
83313	cggcaaacatttcactgactgacct	AA104363
83314	caaacatttcactgactgacctcta	AA104363
83315	acatttcactgactgacctctacac	AA104363
83316	cactgactgacctctacactgccat	AA104363
83317	tgactgacctctacactgccatgat	AA104363
83318	ctgacctctacactgccatgattga	AA104363
83319	tctacactgccatgattgatcattt	AA104363
83320	tctatctgtgttcatctccactgca	AA104363
83321	atctgtgttcatctccactgcactg	AA104363
83322	tgtgttcatctccactgcactggga	AA104363
83323	catctccactgcactgggattacaa	AA104363
83324	ctccactgcactgggattacaagca	AA104363
83325	cactgcactgggattacaagcatgc	AA104363
83326	attacaagcatgcaccttctataac	AA104363
83327	agcatgcaccttctataactattgt	AA104363
83328	tggtatgttggcctcactaacttga	U35836
83329	accctgacctgtgaagctcacagca	U35836
83330	tttgtcctcgctgtagtcatcatca	U35836
83331	gtagtcatcatcatcgcagcactat	U35836
83332	atcatcatcgcagcactatacacta	U35836
83333	atcgcagcactatacactatacgaa	U35836
83334	gcactatacactatacgaagatgca	U35836
83335	agatgcaggcatggtcgtgctctgc	U35836
83336	aggcatggtcgtgctctgcagtcca	U35836

SEQ ID NO	sequence	DBAxnID
125873	cttcctgagtttgctcaactgagaa	
125874	tacacagaactagctgcacgggcat	W40730
125875	acacagaactagctgcacgggcatc	W40730
125876	catcatggaccaggtgatggtcagt	W40730
125877	tcatggaccaggtgatggtcagtct	W40730
125878	taagggtgcgctctgttagaattcg	W40730
125879	ttcggcagattggagacgggtatgc	W40730
125880	ggtatgctagccgactatggtgata	W40730
125881	atgctagccgactatggtgataaag	W40730
125882	gtattcagtatcgacgcgacgatat	W40730
125883	ttcagtatcgacgcgacgatatgtc	W40730
125884	cagtatcgacgcgacgatatgtcgt	W40730
125885	agtatcgacgcgacgatatgtcgtt	W40730
125886	acagaactagctgcacgggcatcat	W40730
125887	tatcgacgcgacgatatgtcgttca	W40730
125888	cagaactagctgcacgggcatcatg	W40730
125889	aactagctgcacgggcatcatggac	W40730
125890	ctagctgcacgggcatcatggacca	W40730
125891	tagctgcacgggcatcatggaccag	W40730
125892	cacgggcatcatggaccaggtgatg	W40730
125893	cgggcatcatggaccaggtgatggt	W40730
125894	gcatcatggaccaggtgatggtcag	W40730
125895	cgtactaggtctttggcactttcag	W40731
125896	ctaggtctttggcactttcagagat	W40731
125897	ttaataatgccttcaaacaatcttt	W40731
125898	taatgccttcaaacaatctttcctt	W40731
125899	gaaaggcaaacagccactgagcagg	W40731
125900	aaggcaaacagccactgagcaggat	W40731
125901	ggcaaacagccactgagcaggatga	W40731
125902	cagccactgagcaggatgaaaagga	W40731
125903	tgaaaaggatcacaccacagcccca	W40731
125904	acagccccagacatccacaggcttt	W40731
125905	agacatccacaggctttccgtaagc	W40731
125906	acatccacaggctttccgtaagctc	W40731
125907	aggtctttggcactttcagagatat	W40731
125908	gtctttggcactttcagagatatgg	W40731
125909	ctttggcactttcagagatatggct	W40731
125910	gagatatggctccactgccttggat	W40731
125911	tatggctccactgccttggattcat	W40731
125912	tggctccactgccttggattcatct	W40731
125913	tccactgccttggattcatcttata	W40731
125914	cactgccttggattcatcttatatt	W40731
125915	tcccagagaccaggatgccgtgcag	
125916	cccagagaccaggatgccgtgcagc	
125917	atgccgtgcagcagagctctgattc	
125918	gccgtgcagcagagctctgattctg	
125919	cgtgcagcagagctctgattctggg	
125920	tttggccaattgatactctttgagc	
125921	ttggccaattgatactctttgagcc	
125922	tggccaattgatactctttgagccc	
125923	gccaattgatactctttgagcccca	
125924	attgatactctttgagccccaaggt	
125925	ttgatactctttgagccccaaggtg	
125926	tactctttgagccccaaggtggact	
125927	ccagagaccaggatgccgtgcagca	
125928	agagaccaggatgccgtgcagcaga	
125929	agaccaggatgccgtgcagcagagc	
125930	accaggatgccgtgcagcagagctc	
125931	ccaggatgccgtgcagcagagctct	
125932	caggatgccgtgcagcagagctctg	
125933	ggatgccgtgcagcagagctctgat	
125934	gatgccgtgcagcagagctctgatt	
125935	gccactcgcatcattcaggtggact	AA064226
125936	cactcgcatcattcaggtggactgc	AA064226
125937	acctctgcgtactaccgtggttcag	AA064226
125938	cctctgcgtactaccgtggttcagt	AA064226
125939	ctaccgtggttcagtgggttcactg	AA064226
125940	accgtggttcagtgggttcactgct	AA064226

TABLE 1

SEQ ID NO	sequence	DBAxnID
40733	cacatcgcgctacgagactaggccg	AA015122
40734	catcgcgctacgagactaggccgct	AA015122
40735	gctacgagactaggccgctgtcaga	AA015122
40736	tacgagactaggccgctgtcagaac	AA015122
40737	ccgctgtcagaactcgactcgggcc	AA015122
40738	ctcgactcgggccctgtagaagaca	AA015122
40739	cgactcgggccctgtagaagacaag	AA015122
40740	tagccccggagtcagaaactgagc	AA015122
40741	tcagaaactgagccagcgcctgact	AA015122
40742	aaactgagccagcgcctgactgtcg	AA015122
40743	aagcacggactccatactatgatga	AA015122
40744	gcacggactccatactatgatgagg	AA015122
40745	acggactccatactatgatgaggag	AA015122
40746	ggactccatactatgatgaggagga	AA015122
40747	tccatactatgatgaggaggaacac	AA015122
40748	gaggaacacacatcgcgctacgaga	AA015122
40749	aacacacatcgcgctacgagactag	AA015122
40750	cacacatcgcgctacgagactaggc	AA015122
40751	ctgagaacagcgtcatctgcagctt	U22325
40752	acagcgtcatctgcagcttcctgca	U22325
40753	agatcacacaaagccacctaagctg	U22325
40754	cacaaagccacctaagctggtactt	U22325
40755	taagctggtacttcagcccagagac	U22325
40756	cagaagaactccagcggcgctggat	U22325
40757	ccacactgtctgaggacaaggagat	U22325
40758	agacaccagtggcagcctcaggagc	U22325
40759	caggagccactgctgaacctcctga	U22325
40760	cccagacccgagacaagacctagag	U22325
40761	cacactccagctgcccatgttcaat	U22325
40762	gttcaattgggggctccagcccact	U22325
40763	tcatctgcagcttcctgcactacat	U22325
40764	tcctgcactacatggagaagggtgg	U22325
40765	catggtttgtggttcctgagaatga	U22325
40766	agaatgaacccttggtgctgtacat	U22325
40767	aacccttggtgctgtacatctatgg	U22325
40768	gagcccctcaggatgtgaaagccca	U22325
40769	ctcctgaggcaggagagcggccaga	U22325
40770	tcttcaagatcacacaaagccacct	U22325
40771	cggtgctgctctatgctctctgtgc	AA015168
40772	tgctgctctatgctctctgtgcctt	AA015168
40773	cgtctcctaatcgaagtcttcagct	AA015168
40774	ctaatcgaagtcttcagctgtacaa	AA015168
40775	gaagtcttcagctgtacaatcatga	AA015168
40776	atcatgaccagattctaacttccga	AA015168
40777	atgaccagattctaacttccgagac	AA015168
40778	ttctaacttccgagacgtcagcttg	AA015168
40779	taacttccgagacgtcagcttgcag	AA015168
40780	cttccgagacgtcagcttgcagcaa	AA015168
40781	cgtcagcttgcagcaaggacgcaag	AA015168
40782	cagcttgcagcaaggacgcaagaac	AA015168
40783	gtgccttagcgtcttgggagccctc	AA015168
40784	tagcgtcttgggagccctcgttatc	AA015168
40785	gggagccctcgttatccaatcgtgc	AA015168
40786	agccctcgttatccaatcgtgctgc	AA015168
40787	cgttatccaatcgtgctgcgtctcc	AA015168
40788	tatccaatcgtgctgcgtctcctaa	AA015168
40789	gtgctgcgtctcctaatcgaagtct	AA015168
40790	ctgcgtctcctaatcgaagtcttca	AA015168
40791	agatgccatcaccaaaatgaaagat	U40751
40792	tgtgtacctaaagaaccctcagatg	U40751
40793	tgatggccagacacaccagacggtc	U40751
40794	ccagacacaccagacggtcactaac	U40751
40795	acaccagacggtcactaactgtgcc	U40751
40796	gacggtcactaactgtgcccaggac	U40751
40797	ggagccgcttccagccatagggacc	U40751
40798	agggacctgcaaggccctctacaca	U40751
40799	ctgcaaggccctctacacatttgaa	U40751
40800	ggccctctacacatttgaaggtcag	U40751
83337	ggtcgtgctctgcagtccaatccct	U35836
83338	cagtccaatccctcagagagggaga	U35836
83339	tcatctgtgaacggcgactgtagac	U35836
83340	acctgtgaagctcacagcaaaccag	U35836
83341	cacagcaaaccagcgcctgacatgg	U35836
83342	aaaccagcgcctgacatggctggat	U35836
83343	gcgcctgacatggctggatataact	U35836
83344	tctgttaagcgccagggcaatatgc	U35836
83345	atctccaccgtagaggatggtctca	U35836
83346	acggtcattgtgtgcgaagtcacca	U35836
83347	atcgtctttgtcctcgctgtagtca	U35836
83348	ttgtgcttttcatcggcatcatcat	D82935
83349	tcggcatcatcatcatccttgtgca	D82935
83350	tgctcatcccactctttggaatcca	D82935
83351	tcccactctttggaatccactacac	D82935
83352	gaatccactacacagtatttgcctt	D82935
83353	cagtatttgccttctctccagagaa	D82935
83354	ctgtactctactgcttcctgaatgg	D82935
83355	acttcactatggacttcaagcaccg	D82935
83356	ctatggacttcaagcaccggcatcc	D82935
83357	gcacccagctgtccatcctgagcaa	D82935
83358	agctgtccatcctgagcaagagcag	D82935
83359	ccatcctgagcaagagcagctccca	D82935
83360	tcatcatcatccttgtgcagaagct	D82935
83361	cgagcatctacttcagctgcgtgca	D82935
83362	tctacttcagctgcgtgcagaaatg	D82935
83363	gctactgcaagccacagcgggctca	D82935
83364	gggctcagcagcactcttgcaagat	D82935
83365	agcagcactcttgcaagatgtcaga	D82935
83366	actcttgcaagatgtcagaactatc	D82935
83367	aactatccaccattactctacggct	D82935
83368	tctgtgaccctggatttagtcttcc	AA104348
83369	gtgaccctggatttagtcttccatc	AA104348
83370	gagcactgctgctgtccacagcttg	AA104348
83371	cactgctgctgtccacagcttgggg	AA104348
83372	cagcttcagactgcagcaggcctga	AA104348
83373	cagactgcagcaggcctgacttcag	AA104348
83374	gcagcaggcctgacttcagtttctt	AA104348
83375	acttcagtttcttccctgagccata	AA104348
83376	gtttcttccctgagccatactcacc	AA104348
83377	atttgtcctgggataccgtatccag	AA104348
83378	attgatatggttcgtgccaggttgg	AA104348
83379	cgtgccaggttggtctgcagccctg	AA104348
83380	catctttgttactatggcacctggc	AA104348
83381	ctttgttactatggcacctggcctc	AA104348
83382	gtgaccacttctcaaagatccctga	AA104348
83383	accacttctcaaagatccctgacag	AA104348
83384	acttctcaaagatccctgacagagc	AA104348
83385	caaagatccctgacagagcactgct	AA104348
83386	agatccctgacagagcactgctgct	AA104348
83387	tccctgacagagcactgctgctgtc	AA104348
83388	ccctgacatccaagagatccgagtc	D29951
83389	catccaagagatccgagtcagccca	D29951
83390	caagacacccaacacattcgctgtg	D29951
83391	ccgaggcatcctgctgcaggccaac	D29951
83392	catcctgctgcaggccaacagtgac	D29951
83393	caagctctctcgaaggagatctgcg	D29951
83394	atctgcgcagatgcgggtctgagtt	D29951
83395	gcagatgcgggtctgagttgaaagc	D29951
83396	ggacttccagtggcccagaccactc	D29951
83397	ccatctgttctgtcatctgccactc	D29951
83398	ggaggcctataccacatgacgaatt	D29951
83399	ctataccacatgacgaattgtgctc	D29951
83400	agagatccgagtcagcccaatcgtc	D29951
83401	aatcgtctccaagaagggatacctg	D29951
83402	cctggagccacacacggctggctgg	D29951
83403	gccacacacggctggctgggccaag	D29951
83404	gcgtccctacgcctacatgtacaac	D29951
125941	tgggttcactgctggtatatgacat	AA064226
125942	gggttcactgctggtatatgacatt	AA064226
125943	gttcactgctggtatatgacattgc	AA064226
125944	ttcactgctggtatatgacattgcc	AA064226
125945	tatatgacattgccaagcacttgac	AA064226
125946	atatgacattgccaagcacttgaca	AA064226
125947	actcgcatcattcaggtggactgca	AA064226
125948	tatgacattgccaagcacttgacat	AA064226
125949	ctcgcatcattcaggtggactgcaa	AA064226
125950	aggctcagatctgggacactgatgg	AA064226
125951	tagcgtgccattacctctgcgtact	AA064226
125952	agcgtgccattacctctgcgtacta	AA064226
125953	gcgtgccattacctctgcgtactac	AA064226
125954	tgccattacctctgcgtactaccgt	AA064226
125955	tacctctgcgtactaccgtggttca	AA064226
125956	aagacccatcaacaaattggattct	L21768
125957	gaatgatccatttcagcctttccca	L21768
125958	tgccagactaaatcagcaggagcaa	L21768
125959	actaaatcagcaggagcaagaagac	L21768
125960	cttggaactggccattgcacttagc	L21768
125961	actggccattgcacttagcaaatct	L21768
125962	tatctgtcctttgtcagcagtacag	L21768
125963	tcctttgtcagcagtacagtgctct	L21768
125964	gtgctctctggaacactgaagctat	L21768
125965	aagctatttaccatgtgcatcaaac	L21768
125966	atgtgcatcaaactacctatgagca	L21768
125967	atcaaactacctatgagcatgggat	L21768
125968	tcagcctttcccaggcaatgatagt	L21768
125969	tttcccaggcaatgatagtcccaaa	L21768
125970	agatcctgatatgttttgtgatcca	L21768
125971	ttcttctaccactaccaataaagag	L21768
125972	taccactaccaataaagaggctgac	L21768
125973	ggctgacccaagcaattttgctaac	L21768
125974	tgctaacttcagtgcttatccctct	L21768
125975	tgcttatccctctgaagaagatatg	L21768
125976	ctgatcctcctggctgcgtcacaag	
125977	gatcctcctggctgcgtcacaaggc	
125978	catagctgtgggctacctggatgac	
125979	ctcagttcgtgcgcttcaacagctc	
125980	cagttcgtgcgcttcaacagctcag	
125981	gcttcaacagctcaggggagactgc	
125982	ttcaacagctcaggggagactgcga	
125983	caacagctcaggggagactgcgaca	
125984	actgcgacatataagctaagtgcgc	
125985	atgtatggctgtgaggtggagttct	
125986	gtatggctgtgaggtggagttcttc	
125987	tcttcgggagcctcttccgcgctta	
125988	tcctcctggctgcgtcacaaggcca	
125989	ctcctggctgcgtcacaaggccaga	
125990	cctggctgcgtcacaaggccagacc	
125991	tggctgcgtcacaaggccagaccca	
125992	gctgcgtcacaaggccagacccaga	
125993	tgcgtcacaaggccagacccagacc	
125994	cgtcacaaggccagacccagacctg	
125995	ctgcccaggctcacactcgctgagg	
125996	cagcattatgtctcaggctaagtat	W40976
125997	gcattatgtctcaggctaagtatga	W40976
125998	ctcaaggctaaaccaacgtgatact	W40976
125999	caaggctaaaccaacgtgatactcg	W40976
126000	gctaaaccaacgtgatactcgtgga	W40976
126001	ccaacgtgatactcgtggaacaagc	W40976
126002	cgtgatactcgtggaacaagctgag	W40976
126003	atactcgtggaacaagctgagagcg	W40976
126004	agctgagagcgacttccaaggtaag	W40976
126005	ctgagagcgacttccaaggtaagtg	W40976
126006	tttagatcgaacagaccttgagtcc	W40976
126007	tagatcgaacagaccttgagtccag	W40976
126008	tatgtctcaggctaagtatgacaaa	W40976

99/15/60
09/396196

TABLE 1

SEQ ID NO	sequence	DBAxnID
40801	agagacgctgagcgtgattgaagag	U40751
40802	gactcgcatccgcagaaatgaagac	U40751
40803	gaaccctcagatgggagacccagcc	U40751
40804	cagcctggaccagaagctcaccgaa	U40751
40805	ggaccagaagctcaccgaagtcacc	U40751
40806	gaagctcaccgaagtcacccagaac	U40751
40807	agtcacccagaacatagagaaactg	U40751
40808	agaaggcagactcccagctcggagt	U40751
40809	cagactcccagctcggagtgagcag	U40751
40810	cccagctcggagtgagcaggcacgc	U40751
40811	gcattgtctgatctgcgctgtcgtc	AA015214
40812	ttgtctgatctgcgctgtcgtctag	AA015214
40813	ccacagggcacctgtacgtagttcg	AA015214
40814	ggcacctgtacgtagttcggcctat	AA015214
40815	cacctgtacgtagttcggcctatgt	AA015214
40816	ctgtacgtagttcggcctatgtctc	AA015214
40817	tgtacgtagttcggcctatgtctca	AA015214
40818	tacgtagttcggcctatgtctcact	AA015214
40819	acgtagttcggcctatgtctcacta	AA015214
40820	gtagttcggcctatgtctcactaca	AA015214
40821	tagttcggcctatgtctcactacat	AA015214
40822	gttcggcctatgtctcactacatga	AA015214
40823	tctgatctgcgctgtcgtctagcct	AA015214
40824	tcggcctatgtctcactacatgact	AA015214
40825	ctgatctgcgctgtcgtctagcctg	AA015214
40826	cgctgtcgtctagcctgtgcaacca	AA015214
40827	gctgtcgtctagcctgtgcaaccac	AA015214
40828	gcctgtgcaaccacagggcacctgt	AA015214
40829	tgtgcaaccacagggcacctgtacg	AA015214
40830	gtgcaaccacagggcacctgtacgt	AA015214
40831	caaccacagggcacctgtacgtagt	AA015214
40832	gtccctgcacaggcgatcttgtcta	AA015115
40833	cctgcacaggcgatcttgtctatgg	AA015115
40834	aaagcgtcctgagctgaataccatg	AA015115
40835	aactgaggctactatccgtgaagtt	AA015115
40836	ggctactatccgtgaagttattgac	AA015115
40837	tactatccgtgaagttattgacaag	AA015115
40838	ggcattgcaatctgcatcctgtgta	AA015115
40839	attgcaatctgcatcctgtgtacgc	AA015115
40840	atctgcatcctgtgtacgctcctat	AA015115
40841	tgtacgctcctatcaggagttagag	AA015115
40842	acgctcctatcaggagttagagtca	AA015115
40843	ctcctatcaggagttagagtcaata	AA015115
40844	atgctcgctgtgggaatacctcact	AA015115
40845	tcaatagccaatagacgtggtggta	AA015115
40846	ggaatacctcactggactaaagcaa	AA015115
40847	cctcactggactaaagcaatcgcta	AA015115
40848	gccagcttcatctccatcaaagcgt	AA015115
40849	agcttcatctccatcaaagcgtcct	AA015115
40850	ttcatctccatcaaagcgtcctgag	AA015115
40851	tccatcaaagcgtcctgagctgaat	AA015115
40852	atcaaagcgtcctgagctgaatacc	AA015115
40853	tcggcactaggcagcgcaacacctc	AA015118
40854	cccccagtgctcagctgggagaaac	AA015118
40855	tgagcaacccgcctatgagtgtagc	AA015118
40856	agcaacccgcctatgagtgtagcca	AA015118
40857	ccactgccgcaagacgttcagctcg	AA015118
40858	ccgcaagacgttcagctcgcggaaa	AA015118
40859	gcaagacgttcagctcgcggaaaaa	AA015118
40860	ttcagctcgcggaaaaactacacca	AA015118
40861	aaactacaccaagcacatgttcatc	AA015118
40862	actacaccaagcacatgttcatcca	AA015118
40863	caccaagcacatgttcatccactct	AA015118
40864	tcatccactctggggagaagccaca	AA015118
40865	cagtgctcagctgggagaaacgcag	AA015118
40866	gtgctcagctgggagaaacgcaggc	AA015118
40867	gaaacgcaggcggtgcagcggcccc	AA015118
40868	gccgtcaggccacagccatctctgg	AA015118

SEQ ID NO	sequence	DBAxnID
83405	atttgtgctcaacctctccactgcg	D29951
83406	ggaccagcaggccatgctcaagaca	D29951
83407	catgctcaagacacccaacacattc	D29951
83408	gctggctgcactggtgcaggactat	X97991
83409	ctctagcttggacagccccagatct	X97991
83410	tctccaggctattactggttgcttt	X97991
83411	ttgctttcctgaggcaaagaatggt	X97991
83412	gagaaagtcccacaggctaaaagag	X97991
83413	gtcccacaggctaaaagagaatcac	X97991
83414	gaatcacccaggaagatggcagaga	X97991
83415	ggcagtcatctggcttcctagtaga	X97991
83416	catctggcttcctagtagagcttct	X97991
83417	gcttcctagtagagcttctagtctt	X97991
83418	tagtagagcttctagtcttgcttct	X97991
83419	tagtcttgcttctggaagtgttggt	X97991
83420	cttggacagccccagatctaagcgg	X97991
83421	gaatctgagtacctgcatgctgggc	X97991
83422	gagtacctgcatgctgggcacgtac	X97991
83423	cacgtacacacaagacctcaacaag	X97991
83424	cacacaagacctcaacaagtttcac	X97991
83425	tggcaactaagctccttctctcctt	X97991
83426	tttcttcctataacttgatgcatgt	X97991
83427	ctctctggttgctctccaggctatt	X97991
83428	caggaaagctctctccacttaaagt	AA104450
83429	agctctctccacttaaagtgcagtc	AA104450
83430	agagctaagccggaactcaggaaca	AA104450
83431	aggaacattttcttcacagattgag	AA104450
83432	aacattttcttcacagattgagaat	AA104450
83433	tacacctgtcttgtgtccttttcat	AA104450
83434	gtgtccttttcatttgcaaccagtg	AA104450
83435	tccttttcatttgcaaccagtgcct	AA104450
83436	tcatttgcaaccagtgcctgaacct	AA104450
83437	tttgcaaccagtgcctgaacctgag	AA104450
83438	gcaaccagtgcctgaacctgagaca	AA104450
83439	gcctgaacctgagacagtgttaaaa	AA104450
83440	tctctccacttaaagtgcagtctaa	AA104450
83441	ctccacttaaagtgcagtctaagaa	AA104450
83442	ctaagaagcttccatgtcgaggcca	AA104450
83443	agaagcttccatgtcgaggccagac	AA104450
83444	agcttccatgtcgaggccagactac	AA104450
83445	catgtcgaggccagactacctgccg	AA104450
83446	agactacctgccgggatcgtgtgat	AA104450
83447	ctacctgccgggatcgtgtgattct	AA104450
83448	gtgtgtccaggagctggcttcaccc	AA104459
83449	ctccttgctcttcatcttcgtacgg	AA104459
83450	gaaattgatatccctcatgtatggc	AA104459
83451	attgatatccctcatgtatggcttt	AA104459
83452	atccctcatgtatggctttacctgg	AA104459
83453	cctcatgtatggctttacctggcag	AA104459
83454	tggctttacctggcagaactgatta	AA104459
83455	ctttacctggcagaactgattacac	AA104459
83456	gaactgattacacctattctccagg	AA104459
83457	ctgattacacctattctccaggaag	AA104459
83458	acacctattctccaggaagatgggg	AA104459
83459	attctccaggaagatggggtgccca	AA104459
83460	cttgctcttcatcttcgtacggctt	AA104459
83461	catcttcgtacggcttggtatcgag	AA104459
83462	cgtacggcttggtatcgagtccacg	AA104459
83463	tatcgagtccacgctggagcgtagt	AA104459
83464	gcgtagtaccattgctcgtgagcat	AA104459
83465	gcgactactgcaccaactgctctgt	AA104459
83466	gcactctctactgcccagtactatc	AA104459
83467	tactatcaagggctgtatgaaacac	AA104459
83468	ttcaggaggccaggctccttgctga	X98113
83469	aggccaggctccttgctgagcgatg	X98113
83470	gaggccatctcgttctcgttctcat	X98113
83471	ttctcgttctcatccttggtgccct	X98113
83472	gggcctttggctttcactggtggag	X98113

SEQ ID NO	sequence	DBAxnID
126009	tcgaacagaccttgagtccagcaca	W40976
126010	tgacaaagtggctgagcaggtgaac	W40976
126011	cagccacgagactcaggtaactgat	W40976
126012	gagatccggttcatctacactcacc	W40976
126013	tccggttcatctacactcacctcaa	W40976
126014	atattggcaggtgctcttggacctc	W40976
126015	aggtgctcttggacctcaaggctaa	W40976
126016	gtgctcttggacctcaaggctaaac	W40976
126017	tataaaagcacactaagtgggcact	W41056
126018	gcccctgttctggcctgtgcttttt	W41056
126019	actcagcataccaggtatgttacga	W41056
126020	acttgtgcgtttgccccaacactct	W41056
126021	tgtgcgtttgccccaacactctctt	W41056
126022	ccaacactctcttacttgctactgg	W41056
126023	acactctcttacttgctactggttc	W41056
126024	tacttgctactggttcaatggacaa	W41056
126025	ttgctactggttcaatggacaagac	W41056
126026	ttgacctggaaacaccttgccaagc	W41056
126027	acctggaaacaccttgccaagcagg	W41056
126028	tggaaacaccttgccaagcaggaag	W41056
126029	ctggcctgtgctttttcacatgatg	W41056
126030	caccttgccaagcaggaagcatgaa	W41056
126031	aagatgcttgcatcggggtcagtgg	W41056
126032	gataaatctgtcatcatacatggta	W41056
126033	gtcatcatacatggtatcggccctc	W41056
126034	catggtatcggccctcagagtgtgc	W41056
126035	ggtatcggccctcagagtgtgctac	W41056
126036	atcggccctcagagtgtgctacaca	W41056
126037	cacacgctgactcagcataccaggt	W41056
126038	cagtcgtcagcatggctcgctcggt	AA059700
126039	tggctcgctcggtgaccctggtctt	AA059700
126040	gtatgctatccagaaaaccccctcaa	AA059700
126041	ccctcaaattcaagtatactcacgc	AA059700
126042	ctcaaattcaagtatactcacgcca	AA059700
126043	ccgaacatactgaactgctacgtaa	AA059700
126044	gaacatactgaactgctacgtaaca	AA059700
126045	acatactgaactgctacgtaacaca	AA059700
126046	atactgaactgctacgtaacacagt	AA059700
126047	ctgctacgtaacacagttccacccg	AA059700
126048	ccgcctcacattgaaatccaaatgc	AA059700
126049	cattgaaatccaaatgctgaagaac	AA059700
126050	tgaccctggtctttctggtgcttgt	AA059700
126051	gtctttctggtgcttgtctcactga	AA059700
126052	ggtgcttgtctcactgaccggcctg	AA059700
126053	cttgtctcactgaccggcctgtatg	AA059700
126054	tcactgaccggcctgtatgctatcc	AA059700
126055	actgaccggcctgtatgctatccag	AA059700
126056	tgaccggcctgtatgctatccagaa	AA059700
126057	cggcctgtatgctatccagaaaacc	AA059700
126058	gtgccagctgagacgctctacgatg	W41070
126059	gagacgctctacgatgtcctgcatg	W41070
126060	actgtcaacgctgacgtaggatatt	W41070
126061	gtcaacgctgacgtaggatattatt	W41070
126062	tgtcccaagcccctgaagaaccgtg	W41070
126063	cccaagcccctgaagaaccgtgatg	W41070
126064	cccctgaagaaccgtgatgtcatca	W41070
126065	tggctccccatgggcgctgattaca	W41070
126066	ctccccatgggcgctgattacatca	W41070
126067	cccatgggcgctgattacatcatta	W41070
126068	atcattatgaactactcagtgaaac	W41070
126069	attatgaactactcagtgaaacacc	W41070
126070	acgctctacgatgtcctgcatgaca	W41070
126071	ctctacgatgtcctgcatgacatag	W41070
126072	gatgtcctgcatgacatagaataca	W41070
126073	attgagactttcgacatcgcccgct	W41070
126074	gacatcgcccgcttgactgtcaacg	W41070
126075	atcgcccgcttgactgtcaacgctg	W41070
126076	gcccgcttgactgtcaacgctgacg	W41070

TABLE 1

SEQ ID NO	sequence	DBAxnID
40869	cgtcaggccacagccatctctggca	AA015118
40870	cacagccatctctggcactcctgtg	AA015118
40871	aggtgctgagcaacccgcctatgag	AA015118
40872	gtgctgagcaacccgcctatgagtg	AA015118
40873	ctttggcactgtcaatgagatctat	U50631
40874	tttccagggtagccttcctgccagg	U50631
40875	gcctttcatcaaggcatgactataa	U50631
40876	tttcatcaaggcatgactataagta	U50631
40877	actataagtagccatgctgatgttg	U50631
40878	catgctgatgttgactccggaggtt	U50631
40879	tttttacaaatgatgctgggaagta	U50631
40880	tctaatttcacttatgttgctgggt	U50631
40881	acttatgttgctgggtgtgagagaa	U50631
40882	agaggtgcacagctactgagatggg	U50631
40883	ggtgcacagctactgagatgggaag	U50631
40884	agcacatctacttaaatcatattaa	U50631
40885	cagggctgcttaccaagtcgctgct	U50631
40886	ggctgcttaccaagtcgctgcttta	U50631
40887	ccaagtcgctgctttaccaagagga	U50631
40888	cgctgctttaccaagaggaagtcga	U50631
40889	aatcgaagcaatcgctgtccagggg	U50631
40890	agcaatcgctgtccaggggcctttc	U50631
40891	cgctgtccaggggcctttcatcaag	U50631
40892	tgtccaggggcctttcatcaaggca	U50631
40893	gacaaggcctacgttgaatacttga	AA015042
40894	ccttcccaagatgtctggagataaa	AA015042
40895	gtcactttcaacatacaaaacagca	AA015042
40896	cactttcaacatacaaaacagcata	AA015042
40897	actttcaacatacaaaacagcatac	AA015042
40898	ctttcaacatacaaaacagcatacc	AA015042
40899	tttcaacatacaaaacagcatacca	AA015042
40900	acagcataccaacaacataagatgg	AA015042
40901	cagcataccaacaacataagatggt	AA015042
40902	gcataccaacaacataagatggtga	AA015042
40903	cataccaacaacataagatggtgag	AA015042
40904	ataccaacaacataagatggtgagg	AA015042
40905	cttcccaagatgtctggagataaag	AA015042
40906	ttcccaagatgtctggagataaaga	AA015042
40907	agatcacggtcactttcaacataca	AA015042
40908	gatcacggtcactttcaacatacaa	AA015042
40909	atcacggtcactttcaacatacaaa	AA015042
40910	tcacggtcactttcaacatacaaaa	AA015042
40911	cggtcactttcaacatacaaaacag	AA015042
40912	ggtcactttcaacatacaaaacagc	AA015042
40913	cgacaccttccgacacttggctgca	AA015272
40914	caccttccgacacttggctgcaact	AA015272
40915	ctccgcctgctgaggagacagctgc	AA015272
40916	cagctgctcatctgtccttctgcgg	AA015272
40917	ctgctcatctgtccttctgcggcac	AA015272
40918	atctgtccttctgcggcacacggtg	AA015272
40919	tgtccttctgcggcacacggtggta	AA015272
40920	tctgcggcacacggtggtatcgatg	AA015272
40921	gcggcacacggtggtatcgatggtc	AA015272
40922	gcacacggtggtatcgatggtcttg	AA015272
40923	cttgagcactacagatctaaggaga	AA015272
40924	gagcactacagatctaaggagagcc	AA015272
40925	ccgacacttggctgcaactagcttg	AA015272
40926	acacttggctgcaactagcttgttt	AA015272
40927	cttggctgcaactagcttgtttctc	AA015272
40928	ggctgcaactagcttgtttctcttc	AA015272
40929	tgcaactagcttgtttctcttcctc	AA015272
40930	gtttctcttcctcaggagtcgaagc	AA015272
40931	tctcttcctcaggagtcgaagcttc	AA015272
40932	gagtcgaagcttctccgcctgctga	AA015272
40933	cacctgtgtgccacctcactgtgcg	U50734
40934	acctcactgtgcggatcagttctgc	U50734
40935	acgtctgcttttagaagtggagctt	U50734
40936	aaggcagcctctgtccttaagaaga	U50734

SEQ ID NO	sequence	DBAxnID
83473	gaagattttctgccttagaacatgg	X98113
83474	tttctgccttagaacatgggattca	X98113
83475	agccatttccggctcagaggaagat	X98113
83476	agcccgagccggagccacagctgga	X98113
83477	agctggagccagagcccaggcagct	X98113
83478	ccgaggcagccagcaggtctcagca	X98113
83479	cagccagcaggtctcagcagctccg	X98113
83480	ggctccttgctgagcgatggcagtg	X98113
83481	cgaataaactccctgtcagcagcat	X98113
83482	ggcagtgtcagctgtacgagggcca	X98113
83483	gtcagctgtacgagggccagaggct	X98113
83484	tgtacgagggccagaggcttcttgg	X98113
83485	cagtgtacgccgcagagtctagctc	X98113
83486	acgccgcagagtctagctcaggcgc	X98113
83487	ctagctcaggcgcccacagtgctag	X98113
83488	ttaaaggaggccatctcgttctcgt	X98113
83489	attatgtccaagctgttaaattctt	AA104503
83490	ttatgtccaagctgttaaattctta	AA104503
83491	tcttacaaagaggccaagtgctcag	AA104503
83492	aagaggccaagtgctcagcgccaga	AA104503
83493	aggccaagtgctcagcgccagagtt	AA104503
83494	ggccaagtgctcagcgccagagttt	AA104503
83495	gccaagtgctcagcgccagagttta	AA104503
83496	aagtgctcagcgccagagtttaaag	AA104503
83497	agtgctcagcgccagagtttaaagg	AA104503
83498	aggcccgcgtatctacagaaaattg	AA104503
83499	ggcccgcgtatctacagaaaattgg	AA104503
83500	gcccgcgtatctacagaaaattgga	AA104503
83501	tatgtccaagctgttaaattcttac	AA104503
83502	gtgattgacgaacccatcattgaca	AA104503
83503	tgattgacgaacccatcattgacat	AA104503
83504	gattgacgaacccatcattgacatt	AA104503
83505	attgacgaacccatcattgacattc	AA104503
83506	cgaacccatcattgacattcttaca	AA104503
83507	acattcttacaaagaggccaagtgc	AA104503
83508	cattcttacaaagaggccaagtgct	AA104503
83509	ccacttcctgacaaatctgattttt	U74079
83510	caccagtctgcctagagcatcactg	U74079
83511	gtctacagcagccacagccactgtg	U74079
83512	agcagccacagccactgtgcacaat	U74079
83513	cacagccactgtgcacaatggacag	U74079
83514	cactgtgcacaatggacagggtgcc	U74079
83515	cctcggagctttggcttggcatctt	U74079
83516	ggcttggcatcttgggttcatttga	U74079
83517	tcgttgtacccagggcatggcaatg	U74079
83518	ttatttctactctcaccctgagaga	U74079
83519	tcaccctgagagacctgggcagcca	U74079
83520	tgagccaggtgccaccactgtaagg	U74079
83521	tctgcctagagcatcactggaaccc	U74079
83522	tagagcatcactggaacccgcacta	U74079
83523	cagacaagaagtcttccctcaacta	U74079
83524	agaagtcttccctcaactacgtgtg	U74079
83525	cttccctcaactacgtgtgatgacc	U74079
83526	tcaactacgtgtgatgaccaagtcc	U74079
83527	gatgaccaagtccaaggttgaccag	U74079
83528	tgaccagggactgtctacagcagcc	U74079
83529	gaatcacaggggacagccagtggtg	AA107847
83530	aagcttctatgaggcgctcagtcag	AA107847
83531	agagccatgaggctggcacagatga	AA107847
83532	atgagtctggccttcggctgggcag	AA107847
83533	ttcggctgggcagctgtcaatatta	AA107847
83534	gtcaatattacttctacagacggca	AA107847
83535	aatattacttctacagacggcagac	AA107847
83536	attacttctacagacggcagacaca	AA107847
83537	acttctacagacggcagacacagca	AA107847
83538	tctacagacggcagacacagcatct	AA107847
83539	acagacggcagacacagcatctgct	AA107847
83540	cacagcatctgctgtgacgactcct	AA107847

SEQ ID NO	sequence	DBAxnID
126077	ttgactgtcaacgctgacgtaggat	W41070
126078	gctcttcatctgggtcctacgggag	M30127
126079	agaagacagccagcaatggcaagtt	M30127
126080	cagttctcgccaagaactgaggaca	M30127
126081	cagccacctgagccatatgctgacc	M30127
126082	cctgagccatatgctgacctctttg	M30127
126083	ccatatgctgacctctttgccagga	M30127
126084	gctgacctctttgccaggatcctcc	M30127
126085	ggcccatgtccatccttggggaaag	M30127
126086	ggccagaccaacattttgcttgtct	M30127
126087	accaacattttgcttgtctgcttct	M30127
126088	attttgcttgtctgcttctgcccaa	M30127
126089	acctccatgtgtccctgctggacta	M30127
126090	gcaagttgcggtcctacttgcccga	M30127
126091	tgaaggaaacctgcacttggttcac	M30127
126092	gcacttggttcaccgacaactatga	M30127
126093	ggttcaccgacaactatgagcaggc	M30127
126094	actatgagcaggcccggaagtaagg	M30127
126095	ggcaagcaagtgctcgcctggcgat	M30127
126096	caagtgctcgcctggcgatgcccag	M30127
126097	ctcgcctggcgatgcccagtcagtg	M30127
126098	gtgtgaacttactccatcgattcct	M20985
126099	acttactccatcgattcctggcctt	M20985
126100	tggtctctactggagaagagcatat	M20985
126101	agcatatatacacatgccacgtaaa	M20985
126102	tatacacatgccacgtaaatcatga	M20985
126103	atcatgaggggctatctgagcccat	M20985
126104	tatctgagcccatcaccatcagatg	M20985
126105	agcccatcaccatcagatggacaaa	M20985
126106	tcaccatcagatggacaaagcacga	M20985
126107	tacttggagcactccttatgggagc	M20985
126108	gagcactccttatgggagcagtgat	M20985
126109	tgacttttcttatatggaagagaag	M20985
126110	tccatcgattcctggcctttgggaa	M20985
126111	atatgacccataagatcagaccaga	M20985
126112	ataggaaaaccaccttgaggtgctg	M20985
126113	ccttgaggtgctgggccttcaactt	M20985
126114	ccctaacctggcagagggatggaag	M20985
126115	atggaagcaaccagacccaggacat	M20985
126116	gcaaccagacccaggacatggagat	M20985
126117	ctgtggtggtctctactggagaaga	M20985
126118	ctgaacaccagaaaatacacacggg	W41117
126119	agaagtcatttcgccacaaatcaaa	W41117
126120	tttacgaggtgcccaaatcctgaat	W41117
126121	tgcccaaatcctgaattacacataa	W41117
126122	ccaaatcctgaattacacataaagg	W41117
126123	aatcctgaattacacataaaggtgt	W41117
126124	cttgtcagcacggggactactactg	W41117
126125	gtcagcacggggactactactgacg	W41117
126126	agcacggggactactactgacgagt	W41117
126127	gggactactactgacgagtttctgc	W41117
126128	actactactgacgagtttctgccgg	W41117
126129	actactgacgagtttctgccggagt	W41117
126130	catttcgccacaaatcaaacttcct	W41117
126131	ttcgccacaaatcaaacttcctctt	W41117
126132	gccacaaatcaaacttcctcttaca	W41117
126133	acttcctcttacatcagaaaactca	W41117
126134	tcttacatcagaaaactcacaagaa	W41117
126135	agtaaattccagcagggtaacagat	W41117
126136	aaattccagcagggtaacagataat	W41117
126137	taatttacgaggtgcccaaatcctg	W41117
126138	atatcatcgacctctccatggaccc	M21332
126139	ctgttgctgagctcaatgggaccca	M21332
126140	gccctaagggttgccatcgagacaa	M21332
126141	agggttgccatcgagacaagaggac	M21332
126142	gctggattccttgtgcctcatatgc	M21332
126143	ttccttgtgcctcatatgcccccaa	M21332
126144	gtgcctcatatgcccccaagctggt	M21332

TABLE 1

SEQ ID NO	sequence	DBAxnID
40937	agattgttaccaagactccaggcta	U50734
40938	ttaccaagactccaggctaggagag	U50734
40939	agttatccaccaatcatacagtgtg	U50734
40940	atcatacagtgtgctatgcttctgt	U50734
40941	cagtgtgctatgcttctgtgctgga	U50734
40942	gctatgcttctgtgctggacacaaa	U50734
40943	cttctgtgctggacacaaatttcta	U50734
40944	atttctataaacttgtgctctgagc	U50734
40945	ctgtgcggatcagttctgcgaaatt	U50734
40946	ctcaataaattgctaacctgctgtg	U50734
40947	ggatcagttctgcgaaattggtgtc	U50734
40948	atagctggattcctttactcattaa	U50734
40949	ggattcctttactcattaatgccgt	U50734
40950	ctttactcattaatgccgttgacca	U50734
40951	aggcgctcactcagcgtgcagctga	U50734
40952	cccacgatccagtgtctgctttacc	U50734
40953	atccagtgtctgctttacctattta	U50734
40954	cctgagccctgcagtgagtgcgaaa	AA015280
40955	gagccctgcagtgagtgcgaaatcc	AA015280
40956	agtggcacaacctgtcaagagaaga	AA015280
40957	gtggcacaacctgtcaagagaagaa	AA015280
40958	ggcacaacctgtcaagagaagaaca	AA015280
40959	gcacaacctgtcaagagaagaacag	AA015280
40960	atactatgagcttgcccggaaagaa	AA015280
40961	actatgagcttgcccggaaagaacg	AA015280
40962	ctatgagcttgcccggaaagaacgg	AA015280
40963	atgagcttgcccggaaagaacggca	AA015280
40964	tgagcttgcccggaaagaacggcag	AA015280
40965	agcttgcccggaaagaacggcagct	AA015280
40966	gccctgcagtgagtgcgaaatcccc	AA015280
40967	tgcgaaatccccagttacggtgaag	AA015280
40968	tgaaaaagcccctgaatgccttcat	AA015280
40969	tggccgagtgtaccctgaaggaaag	AA015280
40970	cgagtgtaccctgaaggaaagtgca	AA015280
40971	aaagtgcagccattaaccaaatcct	AA015280
40972	tgcagccattaaccaaatcctggga	AA015280
40973	aaagtggcacaacctgtcaagagaa	AA015280
40974	tcgaatgtctcggactagtgtatag	AA015283
40975	aatgtctcggactagtgtataggag	AA015283
40976	ctgagcctagttcgtgtcgactgtt	AA015283
40977	ctagttcgtgtcgactgttctagag	AA015283
40978	gttcgtgtcgactgttctagagagc	AA015283
40979	caaagcgcacttattgccgaccagg	AA015283
40980	agcgcacttattgccgaccaggacc	AA015283
40981	attgccgaccaggaccaatagcaca	AA015283
40982	gccgaccaggaccaatagcacatcg	AA015283
40983	caatagcacatcgtaagagtccttg	AA015283
40984	cacatcgtaagagtccttgactcat	AA015283
40985	gtccttgactcatgaagttggttca	AA015283
40986	gtctcggactagtgtataggaggca	AA015283
40987	aacacacctgtcttgtctgatgctg	AA015283
40988	cctgtcttgtctgatgctgaggtct	AA015283
40989	ttgtctgatgctgaggtctcgatga	AA015283
40990	ggaatcccgtagactccttgctgac	AA015283
40991	atcccgtagactccttgctgactcc	AA015283
40992	actccttgctgactcctgagcctag	AA015283
40993	ccttgctgactcctgagcctagttc	AA015283
40994	agtgccccgcaaagcgtgaggatcg	AA015284
40995	ccccgcaaagcgtgaggatcgacac	AA015284
40996	cacgttcctgaagctggacaacctt	AA015284
40997	cgttcctgaagctggacaaccttag	AA015284
40998	gttcctgaagctggacaaccttagc	AA015284
40999	tggacaaccttagcctgcatcctta	AA015284
41000	ggacaaccttagcctgcatccttat	AA015284
41001	gacaaccttagcctgcatccttatc	AA015284
41002	acaaccttagcctgcatccttatca	AA015284
41003	caaccttagcctgcatccttatcag	AA015284
41004	aaccttagcctgcatccttatcagg	AA015284

SEQ ID NO	sequence	DBAxnID
83541	cttctatgaggcgctcagtcagttg	AA107847
83542	tgctgtgacgactcctcatgacaaa	AA107847
83543	ctatgaggcgctcagtcagttgagg	AA107847
83544	ggcgctcagtcagttgagggttata	AA107847
83545	cctctgctgtcttccagagccatga	AA107847
83546	ctgctgtcttccagagccatgaggc	AA107847
83547	ctgtcttccagagccatgaggctgg	AA107847
83548	tcttccagagccatgaggctggcac	AA107847
83549	tccagagccatgaggctggcacaga	AA107847
83550	cttgcccctattcttatcagcgggc	AA104472
83551	gcccctattcttatcagcgggcttg	AA104472
83552	ctagcagctgagaccagtgtaacca	AA104472
83553	gagaccagtgtaaccaaccgtcact	AA104472
83554	aaccgtcacttggcaaagaactcat	AA104472
83555	gcaaagaactcataaccatcctcta	AA104472
83556	aactcataaccatcctctacaacgt	AA104472
83557	tcataaccatcctctacaacgtggt	AA104472
83558	ccatcctctacaacgtggtgtgctc	AA104472
83559	tctacaacgtggtgtgctctgagat	AA104472
83560	acaacgtggtgtgctctgagattga	AA104472
83561	tcatatcatgcttgtgaaggaactg	AA104472
83562	cctattcttatcagcgggcttgagg	AA104472
83563	atatcatgcttgtgaaggaactggc	AA104472
83564	gatctgaacgcatgacatgagggtg	AA104472
83565	ctgaacgcatgacatgagggtgtat	AA104472
83566	gtatgcacactaattcatgcactag	AA104472
83567	tgcacactaattcatgcactagaat	AA104472
83568	ctaattcatgcactagaattgtcaa	AA104472
83569	ttgtcaaaatctcgagagtagctag	AA104472
83570	tagctagcagctgagaccagtgtaa	AA104472
83571	aatgcagccaggggcatctatgtcc	U39545
83572	ggcatctatgtcctttgggattggc	U39545
83573	atcttagcacttgggaagctgaggc	U39545
83574	cagttcaaggccagcctgggatata	U39545
83575	aaggccagcctgggatatatatcaa	U39545
83576	agatctcattcatatctatctatct	U39545
83577	ttatggatctcagtcactaaacctc	U39545
83578	atctcagtcactaaacctctgccac	U39545
83579	aaacctctgccacaggcagccacaa	U39545
83580	gccacaagaggccagctaatgaaaa	U39545
83581	aaacctattgcggatttatcatctg	U39545
83582	attgcggatttatcatctggattta	U39545
83583	agtccaatttaccaacttattcatg	U39545
83584	caacttattcatgatcactactgcc	U39545
83585	attcatgatcactactgcccagcct	U39545
83586	tactgcccagcctgacttgaacctg	U39545
83587	tgacttgaacctggaacacagggta	U39545
83588	gaacctggaacacagggtagagctc	U39545
83589	cttcagtatccatcagaagatttag	U39545
83590	actgtaatcttagcacttgggaagc	U39545
83591	tttgaagaagccccctgccatcaa	AA104561
83592	tgaagaagccccctgccatcaaga	AA104561
83593	cagctattcctccgctgtaatcagg	AA104561
83594	gctattcctccgctgtaatcagggt	AA104561
83595	tattcctccgctgtaatcagggtta	AA104561
83596	aagttgatgccccaagccaagtccg	AA104561
83597	tgatgccccaagccaagtccgggac	AA104561
83598	acaggcttcatttgccaaatcaaat	AA104561
83599	tttgccaaatcaaatccggagccag	AA104561
83600	tgccaaatcaaatccggagccagtt	AA104561
83601	ccaaatcaaatccggagccagtttg	AA104561
83602	caaatccggagccagtttgattagg	AA104561
83603	agccccccttgccatcaagaagccag	AA104561
83604	cttgccatcaagaagccagctattc	AA104561
83605	tgccatcaagaagccagctattcct	AA104561
83606	ccatcaagaagccagctattcctcc	AA104561
83607	caagaagccagctattcctccgctg	AA104561
83608	agaagccagctattcctccgctgta	AA104561

SEQ ID NO	sequence	DBAxnID
126145	tctcagtaaaatcctggggtagaag	M21332
126146	cgtcagcctctagtctttcagcact	M21332
126147	gtctttcagcacttgggattggagt	M21332
126148	cttcaaaagcggctgtcagtgttga	M21332
126149	aagcggctgtcagtgttgatgttaa	M21332
126150	ctgagctcaatgggacccaggtgga	M21332
126151	aatctgtgcagcttaaagtcaacat	M21332
126152	tcaacatagcccgaaaacagcccat	M21332
126153	agcccatgctggacgctgctactgg	M21332
126154	tgctggacgctgctactggcaaatc	M21332
126155	acgctgctactggcaaatctgtctg	M21332
126156	gcaaatctgtctggggctcccttgc	M21332
126157	agaacagccctaagggttgccatcg	M21332
126158	gatggggacaccagtgcctagcacc	
126159	tggggacaccagtgcctagcaccct	
126160	cgtggtacatcgctgtgggctacct	
126161	gtggtacatcgctgtgggctacctg	
126162	acctggatgacactcagttcgcgcg	
126163	cctggatgacactcagttcgcgcgc	
126164	acagcgcaggggagactgggacata	
126165	cagcgcaggggagactgggacatat	
126166	tgtatggctgtgaggtggagttctt	
126167	gtatggctgtgaggtggagttcttc	
126168	ttcttcgggagcctcttccgcgctt	
126169	tcttcgggagcctcttccgcgctta	
126170	tggctgcctcacaagtccagaccca	
126171	aagtccagacccagacctgcccagg	
126172	ctgcccaggctcacactcgctgagg	
126173	cccaggctcacactcgctgaggtac	
126174	gcgaaccgtggtacatcgctgtggg	
126175	cgaaccgtggtacatcgctgtgggc	
126176	aaccgtggtacatcgctgtgggcta	
126177	accgtggtacatcgctgtgggctac	
126178	ggcaagattacctcactctgaatga	M26156
126179	tgagcacctggactgcagcagagtc	M26156
126180	cttctgacatcatcatgatctggca	M26156
126181	tcaccctgagatggagtagacctcc	M26156
126182	ggagtagacctcctcagtctttcat	M26156
126183	ctcagtctttcattttcatcataat	M26156
126184	ctttcattttcatcataatagttgc	M26156
126185	tagttgctgttggcctggttctcct	M26156
126186	gcctggttctcctgggagcttcagt	M26156
126187	ttctcctgggagcttcagtggctac	M26156
126188	tggctactcttgtcatgtggaagaa	M26156
126189	ctcttgtcatgtggaagaagagctc	M26156
126190	cctggactgcagcagagtcggcagc	M26156
126191	ctgcagcagagtcggcagctgagat	M26156
126192	tggctgagttctggagggtctactt	M26156
126193	tctacttggagggcccttgcatggt	M26156
126194	gcccttgcatggtgtggctctttaa	M26156
126195	atgagactctactgcgcacagagcc	M26156
126196	tgcgcacagagcccccaaaggcata	M26156
126197	tctacccttctgacatcatcatgat	M26156
126198	taacatcagatctgggcaagtgtcc	M34815
126199	cctttccttcatagctatccaatgc	M34815
126200	ttgggtcagcctagagcccctgcac	M34815
126201	cagcctagagcccctgcacacattg	M34815
126202	agagcccctgcacacattgtgtctc	M34815
126203	cctgcacacattgtgtctcagagat	M34815
126204	cacattgtgtctcagagatggtgct	M34815
126205	gagaccaccagagttggccttcaga	M34815
126206	ttattaacttgatcccatcttcaga	M34815
126207	acttgatcccatcttcagagcttat	M34815
126208	tcccatcttcagagcttattctaag	M34815
126209	cacaagtaaacacttcgctgctatc	M34815
126210	cttcatagctatccaatgcacaaca	M34815
126211	agctatccaatgcacaacagctgtc	M34815
126212	cacaacagctgtctggcttccagag	M34815

TABLE 1

SEQ ID NO	sequence	DBAxnID
41005	ttagcctgcatccttatcagggctt	AA015284
41006	tgaggatcgacacgttcctgaagct	AA015284
41007	gaggatcgacacgttcctgaagctg	AA015284
41008	aggatcgacacgttcctgaagctgg	AA015284
41009	ggatcgacacgttcctgaagctgga	AA015284
41010	gatcgacacgttcctgaagctggac	AA015284
41011	atcgacacgttcctgaagctggaca	AA015284
41012	tcgacacgttcctgaagctggacaa	AA015284
41013	cgacacgttcctgaagctggacaac	AA015284
41014	cagagatccaagctgctttttgctg	U52044
41015	caggcctgatcctcttggtttttat	U52044
41016	gagttctccagcctgctatcaggga	U52044
41017	tccagcctgctatcagggaaggtga	U52044
41018	agcattggtcccaggctctcaaaat	U52044
41019	ggtcccaggctctcaaaatagtgca	U52044
41020	tagtgcagcctcttcttcccaagct	U52044
41021	ccaagctctgggggtgcaccctgtgt	U52044
41022	gtgcaccctgtgtccttggttacca	U52044
41023	ccagacctagattattcaggagagt	U52044
41024	tatcccctgtgtttcccagtctgag	U52044
41025	ttcccagtctgagtgaccaataaaa	U52044
41026	ttcaagtctgccagagtcagaaatc	U52044
41027	taactcgccagtgaagagatctggc	U52044
41028	ccttaacttaagccagccacgtcag	U52044
41029	tgctgagcctatggaccaataaata	U52044
41030	tcaccataccctgagttgggccaag	U52044
41031	gaagagtctccaccatagtccccaa	U52044
41032	tctccaccatagtccccaagggctg	U52044
41033	ccatagtccccaagggctgagttct	U52044
41034	cataaacagcactttcaggctacat	D30782
41035	cagcactttcaggctacattttaaa	D30782
41036	agagcatattttctcttttgcctg	D30782
41037	tgcactctgccattgcactttgtaa	D30782
41038	actctgccattgcactttgtaaatc	D30782
41039	ctgccattgcactttgtaaatctgt	D30782
41040	ccattgcactttgtaaatctgtaga	D30782
41041	aatctgtagaatcgctcgtataaaa	D30782
41042	atatcagctttgatagtcatgtacc	D30782
41043	atagtcatgtaccttgacatagtga	D30782
41044	gtcatgtaccttgacatagtgaagg	D30782
41045	attggccaagatcgctatggaaaaa	D30782
41046	aaactacatttgtctaagatatctc	D30782
41047	tctaagatatctctgctattgacac	D30782
41048	aagatatctctgctattgacacatg	D30782
41049	atatctctgctattgacacatgatg	D30782
41050	tctctgctattgacacatgatgcct	D30782
41051	ctattgacacatgatgcctttgaat	D30782
41052	ttgacacatgatgcctttgaatgtc	D30782
41053	acacatgatgcctttgaatgtcata	D30782
41054	gactgcttcgagatcctcagccgtt	AA015358
41055	gagatcctcagccgttatcagcctc	AA015358
41056	atgatccattccgggactgatacct	AA015358
41057	atccattccgggactgatacctggc	AA015358
41058	actgatacctggcacactatcggct	AA015358
41059	acctggcacactatcggctctttga	AA015358
41060	tggcacactatcggctctttgatca	AA015358
41061	cacactatcggctctttgatcaagc	AA015358
41062	tgcattgttgcccgatgagtaatcg	AA015358
41063	attgttgcccgatgagtaatcgcag	AA015358
41064	atcgcagttgttcaacgcagcgtgg	AA015358
41065	gcagttgttcaacgcagcgtgggtg	AA015358
41066	atcctcagccgttatcagcctctaa	AA015358
41067	tatcagcctctaacatgacctagcg	AA015358
41068	cagcctctaacatgacctagcgccg	AA015358
41069	gtttgcccttctctctgctgcagag	AA015358
41070	tctctctgctgcagagccgacgcta	AA015358
41071	tgcagagccgacgctatgatccatt	AA015358
41072	agagccgacgctatgatccattccg	AA015358

SEQ ID NO	sequence	DBAxnID
83609	aagccagctattcctccgctgtaat	AA104561
83610	gccagctattcctccgctgtaatca	AA104561
83611	catgcctggcggcaccctagcagct	AA104569
83612	cggcaccctagcagctgtcctgagc	AA104569
83613	ttggaattctcggcaatccctttgg	AA104569
83614	tggaattctcggcaatccctttggc	AA104569
83615	ggaattctcggcaatccctttggca	AA104569
83616	gaattctcggcaatccctttggcat	AA104569
83617	aattctcggcaatccctttggcatc	AA104569
83618	attctcggcaatccctttggcatca	AA104569
83619	ttctcggcaatccctttggcatcaa	AA104569
83620	tctcggcaatccctttggcatcaac	AA104569
83621	ctcggcaatccctttggcatcaaca	AA104569
83622	tcggcaatccctttggcatcaacaa	AA104569
83623	ggcaccctagcagctgtcctgagcc	AA104569
83624	cggcaatccctttggcatcaacaac	AA104569
83625	ctggccgccatgcagctagagacgc	AA104569
83626	gacggcagacgttgccgttggaatt	AA104569
83627	cggcagacgttgccgttggaattct	AA104569
83628	ggcagacgttgccgttggaattctc	AA104569
83629	gcagacgttgccgttggaattctcg	AA104569
83630	cagacgttgccgttggaattctcgg	AA104569
83631	ttgccgttggaattctcggcaatcc	AA104569
83632	ccctgagaaccatgtggtcgtgtct	D26177
83633	gaaccatgtggtcgtgtcttactgc	D26177
83634	tgtctcttttggaagtccgtgctcc	D26177
83635	aagtccgtgctccatcaattccagg	D26177
83636	gtgctccatcaattccaggcaattc	D26177
83637	catcaattccaggcaattcttgatt	D26177
83638	tcctcctaaagacgaagactctcct	D26177
83639	taaagacgaagactctcctaaatct	D26177
83640	cgaagactctcctaaatctaatgga	D26177
83641	accaggtcacccttgtcacttcag	D26177
83642	tcacccttgtcacttcagtctgcc	D26177
83643	tttgtcacttcagtctgccatctca	D26177
83644	ggcttcccaggtggtgtacatcgat	D26177
83645	tctgccatctcagtaagtcctccct	D26177
83646	catcgatgtgcagtccatgtatcag	D26177
83647	gtatcagccgcaagccaaagcagag	D26177
83648	ctataagccacagatgcgccttccc	D26177
83649	ccccgctgtggaagacacagcagca	D26177
83650	agacacagcagcagaagatgaagag	D26177
83651	cagacctcaggccaatgtaaacact	D26177
83652	agattccccgaggtccacagacagc	D26177
83653	tgaagcctgctgggagtgtgaatga	U72519
83654	agcctgctgggagtgtgaatgacgt	U72519
83655	ccagtcctggaggattgcgaggagc	U72519
83656	tgtacttaagtctcaacctgtgata	U72519
83657	taagtctcaacctgtgatacaatct	U72519
83658	tatctgacacagaacaccgggtcta	U72519
83659	aatcacctgctttattagatggctt	U72519
83660	tattagatggcttccaagttttctc	U72519
83661	tccaagttttctcctaggtgacact	U72519
83662	cactgttggtgcctcagctgacagg	U72519
83663	tggtgcctcagctgacagggagcag	U72519
83664	ctcagctgacagggagcagctgggt	U72519
83665	gcctggatgccttagatttggaccg	U72519
83666	ttccatgccacagagctgtcagaat	U72519
83667	atgccttagatttggaccggatgaa	U72519
83668	ttcgggagctgcacaaggtgaagga	U72519
83669	agatcattgatgccatcaggcagga	U72519
83670	atgccatcaggcaggagctaagtgg	U72519
83671	ccatcaggcaggagctaagtgggat	U72519
83672	ggatcagcaccacgtaagatggcac	U72519
83673	aagatggcaccagtcctggaggatt	U72519
83674	gaactagttggtcctcaggatgctt	AA104542
83675	actagttggtcctcaggatgcttcc	AA104542
83676	tcatgtcgataccatgactgtagg	AA104542

SEQ ID NO	sequence	DBAxnID
126213	ctggcttccagagccacacatttgg	M34815
126214	tccagagccacacatttggcagcct	M34815
126215	ggcctgtctgtttgctggtgagcta	M34815
126216	agatagacctcaccaagctggagag	M34815
126217	ctgcatttgggtcagcctagagccc	M34815
126218	gatcccagaggctgaactaaaccgg	AA000817
126219	gtctacatccttaggcagcctgact	AA000817
126220	gtttgcttcctccctgggtatcaga	AA000817
126221	ttcctccctgggtatcagataaggt	AA000817
126222	ctccctgggtatcagataaggtgga	AA000817
126223	cccactctccaacagatgacttgaa	AA000817
126224	actctccaacagatgacttgaatga	AA000817
126225	acttgaatgacaaccctaatggcca	AA000817
126226	tgaatgacaaccctaatggccaggc	AA000817
126227	atgacaaccctaatggccaggccct	AA000817
126228	accctaatggccaggccctgcaggt	AA000817
126229	ctaatggccaggccctgcaggtccc	AA000817
126230	tacatccttaggcagcctgactgca	AA000817
126231	aggccctgcaggtccctagcactat	AA000817
126232	cttaggcagcctgactgcagctcgc	AA000817
126233	aggcagcctgactgcagctcgccgg	AA000817
126234	gtgaccaacacttaccagggacctg	AA000817
126235	taccagggacctgtgaatggtggct	AA000817
126236	ggtggctgccatccttaagtttgct	AA000817
126237	ggctgccatccttaagtttgcttcc	AA000817
126238	catccttaagtttgcttcctccctg	AA000817
126239	ctgcatccacgtcgacaacagccag	W41229
126240	catccacgtcgacaacagccagtgc	W41229
126241	agccagtgctgtccgcagtgcaagg	W41229
126242	cagtgctgtccgcagtgcaaggaga	W41229
126243	gtgctgtccgcagtgcaaggagaag	W41229
126244	tactgcgagttccggggcaagacct	W41229
126245	ggcaagacctaccagactttggagg	W41229
126246	ctaccagactttggaggagtttgtg	W41229
126247	atttctaggatctgtactaatcaga	W41229
126248	atattattggctggtgctgaagaag	W41229
126249	tattggctggtgctgaagaagaaag	W41229
126250	atttgcactatggttcatggggttt	W41229
126251	atccacgtcgacaacagccagtgct	W41229
126252	ccacgtcgacaacagccagtgctgt	W41229
126253	cacgtcgacaacagccagtgctgtc	W41229
126254	gtcgacaacagccagtgctgtccgc	W41229
126255	cgacaacagccagtgctgtccgcag	W41229
126256	caacagccagtgctgtccgcagtgc	W41229
126257	aacagccagtgctgtccgcagtgca	W41229
126258	cagccagtgctgtccgcagtgcaag	W41229
126259	ttccacgccaattcatcgttgacta	M73061
126260	gccaattcatcgttgactattttga	M73061
126261	cacctgcatagctccatctcctata	M73061
126262	catagctccatctcctataagctgt	M73061
126263	tcctataagctgtttgctgccaagt	M73061
126264	aagctgtttgctgccaagtagccac	M73061
126265	tttgctgccaagtagccacatcgag	M73061
126266	tagccacatcgagggactcttcact	M73061
126267	catcgagggactcttcacttgaaat	M73061
126268	tcccagttgttcacactgtttggtg	M73061
126269	acactgtttggtgacagctattcta	M73061
126270	tttggtgacagctattctaggtaga	M73061
126271	tcatcgttgactattttgaaaccag	M73061
126272	attttgaaaccagcagcctttgctc	M73061
126273	tttgctcccagccaggtgtcatttt	M73061
126274	tctgcgctgactccaaagagacctg	M73061
126275	acatcactgacctggaactgaatgc	M73061
126276	tgaatgcctgagagtcttggaggca	M73061
126277	ccctgtagagcaggggcttgagccg	M73061
126278	tgagccgaacattcctgccacctgc	M73061
126279	ccagtgtcaatttcccggacattcg	W41899
126280	cagtgtcaatttcccggacattcgc	W41899

TABLE 1

SEQ ID NO	sequence	DBAxnID
41073	gccgacgctatgatccattccggga	AA015358
41074	ccccttcgcgaagctcattgtggag	D12483
41075	cttcgcgaagctcattgtggagacc	D12483
41076	gaacaactacacggcgctgcagaac	D12483
41077	ctacacggcgctgcagaacgccaag	D12483
41078	gcagaacgccaagtacgagggctgg	D12483
41079	cttcatgaagcgcctgccgcggggc	D12483
41080	cctgcgcttcgagttcctcaactac	D12483
41081	cggcagccagaggacttgggccccg	D12483
41082	ccagccggccgaggaatccagcggg	D12483
41083	ggagctgccttctagttgtgcatat	D12483
41084	gctgccttctagttgtgcatattgt	D12483
41085	gccttctagttgtgcatattgtttg	D12483
41086	aagcagagtccgagttcgcggcgca	D12483
41087	ccgagttcgcggcgcagagacaggt	D12483
41088	agttcgcggcgcagagacaggtctc	D12483
41089	gacaggtctctacatctgcatgaac	D12483
41090	tctctacatctgcatgaacaagaag	D12483
41091	ctgcgtattcacagagatcgtgctg	D12483
41092	cgtattcacagagatcgtgctggag	D12483
41093	cacagagatcgtgctggagaacaac	D12483
41094	agagatacaggcacttcccctgacc	D00460
41095	gatacaggcacttcccctgacccag	D00460
41096	gacgctgcagcaatattgagcaatt	D00460
41097	catgtatagccacttttgtatctgc	D00460
41098	gtatagccacttttgtatctgcacc	D00460
41099	tagccacttttgtatctgcaccatt	D00460
41100	ccacttttgtatctgcaccatttgt	D00460
41101	cttttgtatctgcaccatttgtctc	D00460
41102	ttgtatctgcaccatttgtctctat	D00460
41103	tatctgcaccatttgtctctattta	D00460
41104	taatttctcaaattatcatgtgcaa	D00460
41105	tttctcaaattatcatgtgcaatta	D00460
41106	acctccctggactagaacactgcac	D00460
41107	aacactgcacctgcacttttataagc	D00460
41108	gtgtgaacacaatcaacctgccaag	D00460
41109	acacaatcaacctgccaagacgctg	D00460
41110	caatcaacctgccaagacgctgcag	D00460
41111	tcaacctgccaagacgctgcagcaa	D00460
41112	tgccaagacgctgcagcaatattga	D00460
41113	caagacgctgcagcaatattgagca	D00460
41114	tcattgctggaggtcaaacgtggag	D37874
41115	caccattatcaatgtcaagtggagc	D37874
41116	gctgaacctcaaggtgcaaatgcct	D37874
41117	gccacttcctgatgcagactcgggc	D37874
41118	gcccactgcagcctttcgggctgtg	D37874
41119	tgcagcctttcgggctgtgtgacct	D37874
41120	gtgacctcctgaactgtctccgagc	D37874
41121	actgtctccgagcctcctgagggag	D37874
41122	tgtcctcccatggatccctgctttt	D37874
41123	gatccctgcttttgtggcctgcttc	D37874
41124	tgcttttgtggcctgcttcagtttc	D37874
41125	gttgttttccatctccacataaatt	D37874
41126	gcacagcctctcactgtggacctag	D37874
41127	tccatctccacataaatttggcccc	D37874
41128	cctctcactgtggacctagattcat	D37874
41129	gattcatcagccagatcttctgtgc	D37874
41130	tcagccagatcttctgtgcctgtgg	D37874
41131	atcgttcttggtttattgctggtgg	D37874
41132	ttattgctggtggtagtggccatcg	D37874
41133	gccatcgcaggcggtgtgctgctgt	D37874
41134	ggtgacctgttgcctggtgggaact	D37874
41135	agggcacacgagagccgccgcttct	D84096
41136	gctcgcaccgtgtcccagtctgatc	D84096
41137	gagccagtcgtcattagagatcgct	D84096
41138	attagagatcgctcttacttcaaaa	D84096
41139	gatcgctcttacttcaaaaggaaat	D84096
41140	aagatttcaaatcacattcatgctg	D84096

SEQ ID NO	sequence	DBAxnID
83677	gtcgatacccatgactgtaggccct	AA104542
83678	cgatacccatgactgtaggccctcc	AA104542
83679	atacccatgactgtaggccctccta	AA104542
83680	atgactgtaggccctcctattgcag	AA104542
83681	gactgtaggccctcctattgcaggg	AA104542
83682	ctgtaggccctcctattgcagggtt	AA104542
83683	gccctcctattgcagggttacttca	AA104542
83684	cctcctattgcagggttacttcatg	AA104542
83685	tcctattgcagggttacttcatgac	AA104542
83686	tggtcctcaggatgcttcccaagca	AA104542
83687	gtcctcaggatgcttcccaagcaat	AA104542
83688	cctcaggatgcttcccaagcaattg	AA104542
83689	aggatgcttcccaagcaattggatt	AA104542
83690	gatgcttcccaagcaattggatttc	AA104542
83691	cttcccaagcaattggatttctact	AA104542
83692	ggatttctacttggattcatgtcga	AA104542
83693	attcatgtcgatacccatgactgta	AA104542
83694	gctggcccctaggggaatgaatgtg	D87963
83695	ggcccacacttctttgtaccttctg	D87963
83696	ctacctccctagcagagctgcctat	D87963
83697	gctctgctgggctgaagcctagaca	D87963
83698	agcctagacagggctctatttcctg	D87963
83699	cctcttctgtgtcctgaagacaggt	D87963
83700	ctgtgtcctgaagacaggtggcagg	D87963
83701	cacatccaggtcccaaggtcacctg	D87963
83702	aatgaagtactgtgcccccaatcca	D87963
83703	gaagtactgtgcccccaatccagcc	D87963
83704	caatccagcccgagcttccggaagg	D87963
83705	gttttcgccattgctcaggccaccg	D87963
83706	tttgtaccttctgggtaccagtctg	D87963
83707	tctgggtaccagtctgttcccaggt	D87963
83708	caagtttgggtctcccatatcagac	D87963
83709	gtttgggtctcccatatcagacaat	D87963
83710	gtctcccatatcagacaatgtgcca	D87963
83711	catatcagacaatgtgccaagatgg	D87963
83712	atggaggcccacagaagtggacgga	D87963
83713	gttcagctacctccctagcagagct	D87963
83714	gcctggatgtccatcctcccaagat	U63918
83715	ctgcctctgctgctgagggcacgta	U63918
83716	aaattccactctggtcaccatagtg	U63918
83717	cactgatatgtccttatactggaga	U63918
83718	cacatcaggaaccttgaagatggaa	U63918
83719	aagttccctctagaacagtcagtat	U63918
83720	tcagtatcacctcttgactcttaat	U63918
83721	ctttttctaaggccagctgtaatgc	U63918
83722	ctaaggccagctgtaatgctaagtg	U63918
83723	ctaagtgccagatccaaatccatga	U63918
83724	gccagatccaaatccatgagaaaat	U63918
83725	tccaaatccatgagaaaatagttaa	U63918
83726	tgcgttcctgtgtgccccatcaaaa	U63918
83727	tccatactgcaactgggtcctgcaa	U63918
83728	ctgcaactgggtcctgcaacataaa	U63918
83729	ctgggtcctgcaacataaaggaagt	U63918
83730	ttgactccatttcccaagcccaggg	U63918
83731	tatattcttgctgccacaatgtatg	U63918
83732	gtatgatctttcaaattccactctg	U63918
83733	tctttcaaattccactctggtcacc	U63918
83734	gccaacctcatgacagatgacctcc	U69135
83735	ctcatgacagatgacctcccttgcc	U69135
83736	gtcacctatgagcagctcaaaagag	U69135
83737	cagctcaaaagagccctaatggctg	U69135
83738	gccctaatggctgcctaccaatctc	U69135
83739	atggctgcctaccaatctcgggagg	U69135
83740	caatctcgggaggcacctttctgag	U69135
83741	gcacctttctgagcctctccatgct	U69135
83742	ttctgagcctctccatgctgacctg	U69135
83743	actgatgactcacagtgaggaggcc	U69135
83744	tctacagctaagcccacatcttcat	U69135

SEQ ID NO	sequence	DBAxnID
126281	tcgcacagaagccaagttcaattgt	W41899
126282	caagttcaattgtccctgggccgca	W41899
126283	agttcaattgtccctgggccgcaat	W41899
126284	gttcaattgtccctgggccgcaata	W41899
126285	tcaattgtccctgggccgcaatatt	W41899
126286	caattgtccctgggccgcaatattt	W41899
126287	attgtccctgggccgcaatatttgt	W41899
126288	ttgtccctgggccgcaatatttgtt	W41899
126289	gtccctgggccgcaatatttgtttg	W41899
126290	tccctgggccgcaatatttgtttgc	W41899
126291	tcaatttcccggacattcgcacaga	W41899
126292	caatttcccggacattcgcacagaa	W41899
126293	cccggacattcgcacagaagccaag	W41899
126294	cggacattcgcacagaagccaagtt	W41899
126295	ggacattcgcacagaagccaagttc	W41899
126296	acattcgcacagaagccaagttcaa	W41899
126297	cattcgcacagaagccaagttcaat	W41899
126298	ttcgcacagaagccaagttcaattg	W41899
126299	agctggtccagtgcctcacagagtt	L21707
126300	agtgcctcacagagttccacgctgc	L21707
126301	atcacccagccttagcagtgcttcc	L21707
126302	cagccttagcagtgcttccaaacct	L21707
126303	ccttagcagtgcttccaaacctcag	L21707
126304	tgcttccaaacctcagcttttaacg	L21707
126305	caaacctcagcttttaacgatgacg	L21707
126306	gctgtcttagtgccaactgcttcta	L21707
126307	gtcttagtgccaactgcttctattc	L21707
126308	gtgccaactgcttctattcttaatg	L21707
126309	ttgtctggtttgccttatacgaaga	L21707
126310	tctggtttgccttatacgaagaaag	L21707
126311	tcacagagttccacgctgccctggg	L21707
126312	agttccacgctgccctgggagccta	L21707
126313	tgggagcctacgtctgacttctctc	L21707
126314	gagcctacgtctgacttctctccca	L21707
126315	agctccgccactcagaagaaagtgc	L21707
126316	aaagtgcctgtctgtcacggatgcc	L21707
126317	tgtcacggatgcccctcgtgcagcg	L21707
126318	tgcagcgcagtgcctgcaggggcac	L21707
126319	cccgagcaacaccatgaagctctgc	M23503
126320	catgaagctctgcgtgtctgccctc	M23503
126321	attcctgaccaaaagaggcagacag	M23503
126322	tgagccctgggtcactgagtacatg	M23503
126323	cctcagccctgatgcttctcactga	M23503
126324	tgcttctcactgagaagcgtccttg	M23503
126325	tcactgagaagcgtccttgctcctc	M23503
126326	gctcctcacgttcagatttcctgcc	M23503
126327	ggtccaccattgctgaaactctgct	M23503
126328	ccattgctgaaactctgctattgtg	M23503
126329	ctgaaactctgctattgtggatatg	M23503
126330	ctctgctattgtggatatgactgtg	M23503
126331	ggctgccttctgtgctccagggttc	M23503
126332	ctcagcaccaatgggctctgaccct	M23503
126333	ccggcagcttcacagaagctttgtg	M23503
126334	gcttcacagaagctttgtgatggat	M23503
126335	tgagaccagcagtctttgctccaag	M23503
126336	cagcagtctttgctccaagccagct	M23503
126337	tctttgctccaagccagctgtggta	M23503
126338	tgtggtattcctgaccaaaagaggc	M23503
126339	agtgccttttgtcttcctgtcagct	M34094
126340	gtgccttttgtcttcctgtcagctc	M34094
126341	cctgtcagctctgtcaatcacgcct	M34094
126342	ctgtcagctctgtcaatcacgcctg	M34094
126343	tgtcagctctgtcaatcacgcctgt	M34094
126344	gtcagctctgtcaatcacgcctgtc	M34094
126345	tcagctctgtcaatcacgcctgtcc	M34094
126346	cagctctgtcaatcacgcctgtcct	M34094
126347	agctctgtcaatcacgcctgtcctc	M34094
126348	gctctgtcaatcacgcctgtcctct	M34094

TABLE 1

SEQ ID NO	sequence	DBAxnID
41141	tcaaatcacattcatgctgtgtaca	D84096
41142	aatcacattcatgctgtgtacacat	D84096
41143	caattcccagtgtctgctgtgtaat	D84096
41144	ccccacgtacacagtgtattgattc	D84096
41145	ttgtcacccatcaataaagatcaca	D84096
41146	tcacccatcaataaagatcacaaag	D84096
41147	cgcaccgtgtcccagtctgatcgcg	D84096
41148	tcccagtctgatcgcgtagtggaat	D84096
41149	cagtctgatcgcgtagtggaataag	D84096
41150	tctgatcgcgtagtggaataagtcc	D84096
41151	ccgcaccagcagctcttgtaaattt	D84096
41152	cagcagctcttgtaaatttgtgaaa	D84096
41153	taattcatcacactctcctccttta	D84096
41154	aacgagccagtcgtcattagagatc	D84096
41155	gccttcagccgaacgctcaacacga	AA015402
41156	gacgtcaaccacttcgctccggagc	AA015402
41157	cgctccggagcgtctacaagtgaac	AA015402
41158	gctccggagcgtctacaagtgaacg	AA015402
41159	ctccggagcgtctacaagtgaacga	AA015402
41160	tccggagcgtctacaagtgaacgac	AA015402
41161	tggagatccatggcagcacgaagaa	AA015402
41162	gagatccatggcagcacgaagaatg	AA015402
41163	agatccatggcagcacgaagaatgg	AA015402
41164	gatccatggcagcacgaagaatggc	AA015402
41165	atccatggcagcacgaagaatggca	AA015402
41166	tccatggcagcacgaagaatggcag	AA015402
41167	cgtcaaccacttcgctccggagcgt	AA015402
41168	gtcaaccacttcgctccggagcgtc	AA015402
41169	tcaaccacttcgctccggagcgtct	AA015402
41170	accacttcgctccggagcgtctaca	AA015402
41171	ccacttcgctccggagcgtctacaa	AA015402
41172	cacttcgctccggagcgtctacaag	AA015402
41173	cttcgctccggagcgtctacaagtg	AA015402
41174	tcgctccggagcgtctacaagtgaa	AA015402
41175	aatcacgtttgtgtcattagtgaaa	J00423
41176	ggtgttctagtcctgtggccatctg	J00423
41177	tgagcctataggccagcctaccctc	J00423
41178	tataggccagcctaccctctggtag	J00423
41179	ccagcctaccctctggtagattgtc	J00423
41180	gattgtcgcttatcttgtaagaaaa	J00423
41181	acgagtctgaagctctcgatttcct	J00423
41182	ctgaagctctcgatttcctatcagt	J00423
41183	ctctcgatttcctatcagtaacagc	J00423
41184	atttcctatcagtaacagcatctaa	J00423
41185	tatcagtaacagcatctaagaggtt	J00423
41186	catgtttcagcagtgttggctgtat	J00423
41187	ctagtcctgtggccatctgcctagt	J00423
41188	ctgtggccatctgcctagtaaagct	J00423
41189	ccatctgcctagtaaagcttttgc	J00423
41190	tttttgcatgaaccttctatgaatg	J00423
41191	tcagttgctgcgtccccagacttttt	J00423
41192	tccccagacttttgatttgcactat	J00423
41193	gacttttgatttgcactatgagcct	J00423
41194	tgatttgcactatgagcctataggc	J00423
41195	tgtttttcccaatggaaatggcact	D21059
41196	tggcacttacctctcctgggcagag	D21059
41197	gtcttccatgggccactgtacaaca	D21059
41198	catgggccactgtacaacagccagc	D21059
41199	ccacagactgagttcactctcaatg	D21059
41200	actgagttcactctcaatgtcagat	D21059
41201	gtcagatcaatcaccttgccttgta	D21059
41202	cctccttgattaatctgtcaaccct	D21059
41203	tgattaatctgtcaaccctcacaat	D21059
41204	atctgtcaaccctcacaattgccct	D21059
41205	tcacaattgccctcatgcctagaac	D21059
41206	tcatgcctagaacagcacagaaagg	D21059
41207	ggacatagacccctttcttctgcctc	D21059
41208	attgtgaacatcttcatattcactc	D21059

SEQ ID NO	sequence	DBAxnID
83745	gctaagcccacatcttcatcttcat	U69135
83746	tcccctgttgatgtggtcaagacga	U69135
83747	atgaactctgccttgggccagtacc	U69135
83748	tctgccttgggccagtaccacagcg	U69135
83749	cagtaccacagcgcaggtcactgtg	U69135
83750	gcaggtcactgtgcccttaccatgc	U69135
83751	cactgtgcccttaccatgctccgga	U69135
83752	ttcatgccttcctttctccgcttgg	U69135
83753	atgtttgtcacctatgagcagctca	U69135
83754	gtagattccggcaagtatagcagaa	AA104687
83755	agattccggcaagtatagcagaagc	AA104687
83756	acatctcgcagtggagatgcgacac	AA104687
83757	atctcgcagtggagatgcgacacca	AA104687
83758	atgcgacaccagtcgctagtatagt	AA104687
83759	gcgacaccagtcgctagtatagtac	AA104687
83760	caccagtcgctagtatagtacgatc	AA104687
83761	tacgatcaattatgccccagagaac	AA104687
83762	cgatcaattatgccccagagaacat	AA104687
83763	caattatgccccagagaacatatgc	AA104687
83764	tatgccccagagaacatatgcttca	AA104687
83765	tgccccagagaacatatgcttcagt	AA104687
83766	cgtacacatgatctacaaatgtagg	AA104687
83767	catatgcttcagtagcagcattgtt	AA104687
83768	tacacatgatctacaaatgtaggtg	AA104687
83769	aagccgtccttcaactaggcatcgg	AA104687
83770	gccgtccttcaactaggcatcgggt	AA104687
83771	cgtccttcaactaggcatcgggtct	AA104687
83772	tcaactaggcatcgggtcttagaaa	AA104687
83773	aaactgacagttgatcgtagactag	AA104687
83774	attgacatctcgcagtggagatgcg	AA104687
83775	tctaccctaatggtgtgatggagac	AA104688
83776	accctaatggtgtgatggagaccaa	AA104688
83777	ccaacctggtgcattaccgtgttga	AA104688
83778	tgcattaccgtgttgacctgaactt	AA104688
83779	gtgttgacctgaacttggcaggcac	AA104688
83780	ttgacctgaacttggcaggcaccaa	AA104688
83781	acctgaacttggcaggcaccaagaa	AA104688
83782	acttggcaggcaccaagaacagctc	AA104688
83783	caggcaccaagaacagctccggaca	AA104688
83784	ccaagaacagctccggacaatgaag	AA104688
83785	agaacagctccggacaatgaagaca	AA104688
83786	acagctccggacaatgaagacaagc	AA104688
83787	ccaagatgcatgccactggatatgt	AA104688
83788	agatgcatgccactggatatgtcca	AA104688
83789	tgcatgccactggatatgtccacgc	AA104688
83790	ccactggatatgtccacgcaacctt	AA104688
83791	gatatgtccacgcaaccttctacac	AA104688
83792	tctacacccctgagggcttgcgcaa	AA104688
83793	acacccctgagggcttgcgcaatgg	AA104688
83794	cccctgagggcttgcgcaatggaat	AA104688
83795	tccactcagttgccgatgctttgtc	U70210
83796	cagttgccgatgctttgtctccaga	U70210
83797	ccaagttcattttgctgtcctcttg	U70210
83798	cctcttgactggatctgtcacaagc	U70210
83799	atctgtcacaagccaacttggggtc	U70210
83800	gcactttgccctgatttcggatcct	U70210
83801	tgccctgatttcggatcctgagtaa	U70210
83802	tagtttttcataacactgagcctgt	U70210
83803	ctgttggcgtcggtacagacaccag	U70210
83804	gtacagacaccagccaccgagctct	U70210
83805	acactggttcacatctacagctatt	U70210
83806	atctacagctatttgaggtgccggg	U70210
83807	tatctttaaccagacagtgttagac	U70210
83808	caagcatgtgacctcgtcttgccgc	U70210
83809	ttcctgtaagttacatcatgagcag	U70210
83810	attgtgaacaggacttccgagcaca	U70210
83811	aacaggacttccgagcacacacaca	U70210
83812	gagcacacacacagaagaatgcggc	U70210

SEQ ID NO	sequence	DBAxnID
126349	tctgtcaatcacgcctgtcctctca	M34094
126350	ccctgatacttgttattaagaaatg	M34094
126351	tgccttttgtcttcctgtcagctct	M34094
126352	gccttttgtcttcctgtcagctctg	M34094
126353	ccttttgtcttcctgtcagctctgt	M34094
126354	tttgtcttcctgtcagctctgtcaa	M34094
126355	ttgtcttcctgtcagctctgtcaat	M34094
126356	tgtcttcctgtcagctctgtcaatc	M34094
126357	gtcttcctgtcagctctgtcaatca	M34094
126358	cttcctgtcagctctgtcaatcacg	M34094
126359	gtcggttccttctgcgtcgtctccg	AA028536
126360	ggttccttctgcgtcgtctccgagc	AA028536
126361	aacatcgctgtgggcaaatccacct	AA028536
126362	gtgggcaaatccacctttgtgaagt	AA028536
126363	tgggcaaatccacctttgtgaagtt	AA028536
126364	gcaaatccacctttgtgaagttact	AA028536
126365	aatccacctttgtgaagttactcat	AA028536
126366	tccacctttgtgaagttactcatga	AA028536
126367	cgacagaacctatagcagagtggca	AA028536
126368	acagaacctatagcagagtggcaga	AA028536
126369	aacctatagcagagtggcagaatat	AA028536
126370	tccaaacgtcttggaaacttgctag	AA028536
126371	ttccttctgcgtcgtctccgagcgt	AA028536
126372	ctgcggaacgcgctcgtggacgcgc	AA028536
126373	gtggacgcgccacacgccagggcca	AA028536
126374	tggacgcgccacacgccagggccat	AA028536
126375	cacacgccagggccatgcacgacgg	AA028536
126376	cgaaggctctgcattgaaggcaaca	AA028536
126377	gaaggcaacatcgctgtgggcaaat	AA028536
126378	gcaacatcgctgtgggcaaatccac	AA028536
126379	caagcctcgtgtacgtcgccctggc	W41938
126380	gaaggctcatgctgaccaacctagt	W41938
126381	gaccaacctagtacatgcagcgtgt	W41938
126382	caacctagtacatgcagcgtgtggc	W41938
126383	tgcagctggtggctattttgtgcct	W41938
126384	tggtggctattttgtgcctgcagat	W41938
126385	ggctattttgtgcctgcagattcgc	W41938
126386	ctattttgtgcctgcagattcgcag	W41938
126387	tattttgtgcctgcagattcgcagc	W41938
126388	ttttgtgcctgcagattcgcagctc	W41938
126389	tttgtgcctgcagattcgcagctca	W41938
126390	tgtgcctgcagattcgcagctcagg	W41938
126391	aaggctcatgctgaccaacctagta	W41938
126392	gtgcctgcagattcgcagctcaggg	W41938
126393	ggctcatgctgaccaacctagtaca	W41938
126394	gctcatgctgaccaacctagtacat	W41938
126395	tcatgctgaccaacctagtacatgc	W41938
126396	catgctgaccaacctagtacatgca	W41938
126397	tgctgaccaacctagtacatgcagc	W41938
126398	gctgaccaacctagtacatgcagcg	W41938
126399	tgaccaacctagtacatgcagcgtg	W41938
126400	atagctacagttcctggagttacct	W41941
126401	ctgtctatagacgtcactcgagatg	W41941
126402	atcaacggtatcagctataaacgtc	W41941
126403	gtatcagctataaacgtcagggagt	W41941
126404	atcagctataaacgtcagggagtac	W41941
126405	gagtactgtgcactcaccatgacta	W41941
126406	gtactgtgcactcaccatgactata	W41941
126407	tactgtgcactcaccatgactataa	W41941
126408	ctgtgcactcaccatgactataacc	W41941
126409	tgtgcactcaccatgactataaccg	W41941
126410	tgcactcaccatgactataaccggt	W41941
126411	gcactcaccatgactataaccggtc	W41941
126412	tgtctatagacgtcactcgagatgt	W41941
126413	cactcaccatgactataaccggtca	W41941
126414	ctatagacgtcactcgagatgtacg	W41941
126415	atagacgtcactcgagatgtacggc	W41941
126416	acgtcactcgagatgtacggcattt	W41941

TABLE 1

SEQ ID NO	sequence	DBAxnID
41209	cttcttctgcctcatagatcacagg	D21059
41210	ctgcctcatagatcacaggggttt	D21059
41211	caatgttgtagctcagcctcagtaa	D21059
41212	tgtagctcagcctcagtaagttacc	D21059
41213	tcagcctcagtaagttaccctctct	D21059
41214	gtcaatgtcatcaacaaggtcttcc	D21059
41215	gtcatcaacaaggtcttccatgggc	D21059
41216	tagtcctcaactcagatgagttgcg	AA015396
41217	tcaactcagatgagttgcgatagct	AA015396
41218	ttcctctatcggacacagacgggca	AA015396
41219	actactgtgggctgcatactctctc	AA015396
41220	ctctctcatacgacggacactaaca	AA015396
41221	catacgacggacactaacatcatcc	AA015396
41222	acggacactaacatcatcctcaagt	AA015396
41223	atcatcctcaagtgtatctatatgg	AA015396
41224	agttcggatagcatgcccgagagag	AA015396
41225	gatagcatgcccgagagagtgatcc	AA015396
41226	gtgatccccagaggtgaagatctat	AA015396
41227	gatctattgtctcaacgtgagcagc	AA015396
41228	agttgcgatagctctacgcgcctgc	AA015396
41229	ttgtctcaacgtgagcagcatcctg	AA015396
41230	tctacgcgcctgccgtctgagagac	AA015396
41231	cgcctgccgtctgagagacctatat	AA015396
41232	cctatatagccgtcttcgacgtaga	AA015396
41233	tagccgtcttcgacgtagatgtcaa	AA015396
41234	tcttcgacgtagatgtcaagcaggt	AA015396
41235	atgtcaagcaggtggtgcttcctct	AA015396
41236	tggtgcttcctctatcggacacaga	AA015396
41237	accaaagctcttcagagaatatctt	L77247
41238	agttactgtcaactaaattccatgg	L77247
41239	tccatctcaaaagatcagtgacctg	L77247
41240	ttgaagaccttgacttcaggtattt	L77247
41241	atggtgcttttctctctgcagcagt	L77247
41242	ctgcagcagtgtgtgctagaaacag	L77247
41243	ggcatctaagtgcacagaggagtgc	L77247
41244	gtgcgctggacttctcagtagcaaa	L77247
41245	cgctggacttctcagtagcaaaaca	L77247
41246	tggacttctcagtagcaaaacacta	L77247
41247	tagcaaaacactaaactctactgtg	L77247
41248	actaaactctactgtggtgatattt	L77247
41249	gtcatgcctgtctaacacttttaaa	L77247
41250	ttacttgagatccaggggttcatac	L77247
41251	atacatgtagctactgggacccaga	L77247
41252	gtagctactgggacccagagacatg	L77247
41253	actgggacccagagacatgaggatt	L77247
41254	actccatgagtttgaagcagcctca	L77247
41255	gtttgaagcagcctcagcaaacctа	L77247
41256	tgaagcagcctcagcaaacctaggg	L77247
41257	taggccaggcacaaccctcgaagag	AA015461
41258	tctctgccctgatctccaagtccag	AA015461
41259	ccttctttctggcttgcccagggat	AA015461
41260	ggatacggccctagctccgtaccag	AA015461
41261	tacggccctagctccgtaccagtgt	AA015461
41262	ggccctagctccgtaccagtgtagc	AA015461
41263	agctccgtaccagtgtagcctcatc	AA015461
41264	tccgtaccagtgtagcctcatcctc	AA015461
41265	gtaccagtgtagcctcatcctctgt	AA015461
41266	gtgtagcctcatcctctgtgatggc	AA015461
41267	tagcctcatcctctgtgatggcacc	AA015461
41268	cctcatcctctgtgatggcaccgga	AA015461
41269	ccctgatctccaagtccagagtagt	AA015461
41270	caccggagtctccttcgagttcagt	AA015461
41271	tgatctccaagtccagagtagtagg	AA015461
41272	tctccaagtccagagtagtaggggt	AA015461
41273	gacaagcagcattctcagttgtagg	AA015461
41274	tctcagttgtaggcttggcaaggca	AA015461
41275	tgagtcccaaacagttggaatgata	AA015461
41276	gtcccaaacagttggaatgatagaa	AA015461

SEQ ID NO	sequence	DBAxnID
83813	actaacactgcatccttggacgaac	U70210
83814	actgcatccttggacgaacggtgcc	U70210
83815	gcagacatacatgtcttctgcggcg	AA104744
83816	cagacatacatgtcttctgcggcgg	AA104744
83817	gcgcctactgattggtgtgctctgc	AA104744
83818	cgcctactgattggtgtgctctgct	AA104744
83819	ctactgattggtgtgctctgcttat	AA104744
83820	tactgattggtgtgctctgcttatg	AA104744
83821	tgattggtgtgctctgcttatgata	AA104744
83822	cactagacctactgtctgagatccc	AA104744
83823	actagacctactgtctgagatccct	AA104744
83824	ctagacctactgtctgagatcccta	AA104744
83825	gtctgagatccctaagagagattaa	AA104744
83826	tctgagatccctaagagagattaac	AA104744
83827	agacatacatgtcttctgcggcggc	AA104744
83828	acatacatgtcttctgcggcggcgt	AA104744
83829	catacatgtcttctgcggcggcgtc	AA104744
83830	atacatgtcttctgcggcggcgtcg	AA104744
83831	gagatggcgcctactgattggtgtg	AA104744
83832	gatggcgcctactgattggtgtgct	AA104744
83833	atggcgcctactgattggtgtgctc	AA104744
83834	tggcgcctactgattggtgtgctct	AA104744
83835	ctcttcaggtatcaaggttacattg	D83585
83836	tacattggtgcagccctagttttgg	D83585
83837	attgcagctggcatctttaatgact	D83585
83838	aatgacttggggtctggaagcaaca	D83585
83839	agcaagctggactttcttcgtccat	D83585
83840	ctggactttcttcgtccattctcag	D83585
83841	tttcttcgtccattctcagtgccca	D83585
83842	cgtccattctcagtgcccaacaaga	D83585
83843	ttctcagtgcccaacaagaaaggga	D83585
83844	gagaaaggcactaccgctgtcctca	D83585
83845	acccctctggagattgaggtgctag	D83585
83846	atgcctttggcaattgctcaattaa	D83585
83847	gttactggacctcatctctacagca	D83585
83848	ggacctcatctctacagcatctatc	D83585
83849	catctctacagcatctatcctcatg	D83585
83850	tacagcatctatcctcatggatcaa	D83585
83851	atctatcctcatggatcaactgata	D83585
83852	aaattgccttatgtcaccatgggtt	D83585
83853	tctggctccttggcagcaatggctg	D83585
83854	tccttggcagcaatggctgtgtttg	D83585
83855	ttccacaccgtgcgcttcggtgcgc	Y09010
83856	cacaccgtgcgcttcggtgcgctgt	Y09010
83857	gtgtgggctccaggcttgaaacagc	Y09010
83858	gctccaggcttgaaacagccgctgc	Y09010
83859	agcaacctctacatccaggaatgag	Y09010
83860	ctctacatccaggaatgagccattg	Y09010
83861	tgcagactcctaacagacgcactag	Y09010
83862	ctcctaacagacgcactagtggtca	Y09010
83863	atgacatgaccttatctcccaataa	Y09010
83864	acatgaccttatctcccaataaact	Y09010
83865	tgaccttatctcccaataaacttga	Y09010
83866	tatctcccaataaacttgactttag	Y09010
83867	ctggacgactccagcacggagcaca	Y09010
83868	tccagcacggagcacaagggaccag	Y09010
83869	cacaagggaccagtgcaggtgatcc	Y09010
83870	acccctgagatccccatgacagaag	Y09010
83871	gaagatcgactcgaggccttctgga	Y09010
83872	ctcgaggccttctggaagcatggag	Y09010
83873	gaggccttctggaagcatggagttc	Y09010
83874	gccttctggaagcatggagttcagg	Y09010
83875	gcacacgtcaagatcacgtacgacg	AA104781
83876	cacacgtcaagatcacgtacgacgc	AA104781
83877	gatcacgtacgacgccgcgcgcgac	AA104781
83878	atcacgtacgacgccgcgcgcgacg	AA104781
83879	cgcgcgacgtagtcctcagagcaga	AA104781
83880	cgtagtcctcagagcagacccgcgc	AA104781

SEQ ID NO	sequence	DBAxnID
126417	gtcactcgagatgtacggcatttgc	W41941
126418	catttgctgaacctaggagacggca	W41941
126419	atttgctgaacctaggagacggcat	W41941
126420	gaaatcaacggtatcagctataaac	W41941
126421	gtgtccatgaccactgtgggatacg	Y00305
126422	atgaccactgtgggatacggtgaca	Y00305
126423	actatcagcaagtctgagtacatgg	Y00305
126424	agcatagcccattacagacaggcta	Y00305
126425	gcccattacagacaggctaatatca	Y00305
126426	ggtaactgcaccacagctgatcaaa	Y00305
126427	tgcaccacagctgatcaaaactgcg	Y00305
126428	aagagcaagctcctgaccgatgttt	Y00305
126429	gcaacaggcaagccaacaaaagccc	Y00305
126430	tgtcccgctctgtagatactttact	Y00305
126431	ctttactaagcagtagtctttgaat	Y00305
126432	attttgctggcaatgcattgttgca	Y00305
126433	atcgctggtgtgctgacaattgccc	Y00305
126434	caggctcagttgctccatgttagtt	Y00305
126435	cagttgctccatgttagttctccta	Y00305
126436	gttagttctcctaacttagcctctg	Y00305
126437	aacttagcctctgacagtgacctca	Y00305
126438	gacagtgacctcagccgccgcagct	Y00305
126439	cgcagctcctctactatcagcaagt	Y00305
126440	tcctctactatcagcaagtctgagt	Y00305
126441	ttttactggtgatctttgagtctcg	W70499
126442	ttactggtgatctttgagtctcgcc	W70499
126443	ggcagccttggctattgccagtggc	W70499
126444	gccttggctattgccagtggcaatg	W70499
126445	cttggctattgccagtggcaatggc	W70499
126446	tggctattgccagtggcaatggctt	W70499
126447	caatggcttgttgctcaaaggtggg	W70499
126448	atggcttgttgctcaaaggtgggaa	W70499
126449	ccatccacggagtcaaggaggccat	W70499
126450	atccacggagtcaaggaggccatac	W70499
126451	aggatctctgccgccttgacaaaat	W70499
126452	gatctctgccgccttgacaaaataa	W70499
126453	gatctttgagtctcgccctgactgt	W70499
126454	tttgagtctcgccctgactgtctac	W70499
126455	cctgactgtctaccccaggtggcag	W70499
126456	actgtctaccccaggtggcagcctt	W70499
126457	tgtctaccccaggtggcagccttgg	W70499
126458	taccccaggtggcagccttggctat	W70499
126459	ccaggtggcagccttggctattgcc	W70499
126460	aggtggcagccttggctattgccag	W70499
126461	cacgtgagcactatccaattcttcc	W41641
126462	cgtgagcactatccaattcttccag	W41641
126463	ttttctctaccgtatggcgtgatca	W41641
126464	tttctctaccgtatggcgtgatcac	W41641
126465	tctctaccgtatggcgtgatcacca	W41641
126466	ctctaccgtatggcgtgatcaccag	W41641
126467	tctaccgtatggcgtgatcaccagc	W41641
126468	taccgtatggcgtgatcaccagcgc	W41641
126469	aaagtagccacagcaagggctttgg	W41641
126470	aagtagccacagcaagggctttggc	W41641
126471	caagggctttggctttgtgtgcttt	W41641
126472	tggctttgtgtgcttttcctctcca	W41641
126473	gtgagcactatccaattcttccagg	W41641
126474	tgagcactatccaattcttccaggg	W41641
126475	gcactatccaattcttccaggggtg	W41641
126476	cactatccaattcttccaggggtgt	W41641
126477	gacgactccatgtaatgaatgagag	W41641
126478	acgactccatgtaatgaatgagagg	W41641
126479	gaagttttctctaccgtatggcgtg	W41641
126480	gttttctctaccgtatggcgtgatc	W41641
126481	agtgacaagctgtccaaagatcccg	M30440
126482	tagaagtgcctctaccataagtaag	M30440
126483	cataatagcctgcattgtagtcagt	M30440
126484	agcctgcattgtagtcagtgttcta	M30440

TABLE 1

SEQ ID NO	sequence	DBAxnID
41277	agtccttctttctggcttgcccagg	AA015461
41278	agataactaatattcccgtcgtctg	AA015481
41279	ctaatattcccgtcgtctgtcgtag	AA015481
41280	caacctctcgaaccaaatgtgcatg	AA015481
41281	gtgcatgagccttattgtgtacata	AA015481
41282	gcgtgtccatcgcactgatcatggc	AA015481
41283	ccatcgcactgatcatggcctgcat	AA015481
41284	cctgcatggccatgaagatgtactg	AA015481
41285	tgtactgatacaccagcttggtgaa	AA015481
41286	gatacaccagcttggtgaagccgcg	AA015481
41287	tggtgaagccgcgcttgtcttcgtc	AA015481
41288	agccgcgcttgtcttcgtcagagta	AA015481
41289	cgcgcttgtcttcgtcagagtagcc	AA015481
41290	tcgtctgtcgtagcactcctggatt	AA015481
41291	cttcgtcagagtagcccgacacgtg	AA015481
41292	gtcgtagcactcctggattccagga	AA015481
41293	gcactcctggattccaggatcattc	AA015481
41294	tccaggatcattccacaagctctta	AA015481
41295	atcattccacaagctcttaatagca	AA015481
41296	ccacaagctcttaatagcatcatac	AA015481
41297	aatagcatcatacatatggattctc	AA015481
41298	gattctcaaaagcagacaccttctc	AA015481
41299	acgaccctgtactgcagaggattgt	U51196
41300	ttctttatgccacagatgaaggctt	U51196
41301	tacctcttcttcaaagtgcactttg	U51196
41302	aaagtgcactttgcagaagtctcac	U51196
41303	cactttgcagaagtctcaccttctc	U51196
41304	gcagaagtctcaccttctccgatga	U51196
41305	ccttctccgatgagtttgagttagg	U51196
41306	agttaggagctttggccttgtagca	U51196
41307	gagctttggccttgtagcagagcag	U51196
41308	tggccttgtagcagagcagtattaa	U51196
41309	ggccaaccatggggctcttcatgtg	U51196
41310	ccatggggctcttcatgtggatgct	U51196
41311	aagcagcctggaccagcagagcaac	U51196
41312	cctggaccagcagagcaacatccga	U51196
41313	ccagcagagcaacatccgaagtctt	U51196
41314	gagcaacatccgaagtcttcactcc	U51196
41315	catccgaagtcttcactccaaatca	U51196
41316	aagtcttcactccaaatcatgtgct	U51196
41317	tcactccaaatcatgtgcttaactg	U51196
41318	caaatcatgtgcttaactgttaata	U51196
41319	ttgggcaatgtctccaacagtaatg	AA015455
41320	ggcaatgtctccaacagtaatgtca	AA015455
41321	gaactgcttctccatgctccagtcg	AA015455
41322	ctccatgctccagtcgttgaaagcc	AA015455
41323	catgctccagtcgttgaaagccgtc	AA015455
41324	gctccagtcgttgaaagccgtcacc	AA015455
41325	gttgaaagccgtcaccaacaccaca	AA015455
41326	acacaccaccgacaagaggatcgca	AA015455
41327	caccaccgacaagaggatcgcagct	AA015455
41328	gaggatcgcagctccttcaatccac	AA015455
41329	aacagaaacttctccacaaagtgca	AA015455
41330	aacttctccacaaagtgcattatcc	AA015455
41331	gtctccaacagtaatgtcagctaca	AA015455
41332	aatgtcagctacaggtatctggatg	AA015455
41333	gtcagctacaggtatctggatgacc	AA015455
41334	cttctgttcctgctcaattcgactc	AA015455
41335	ctgttcctgctcaattcgactctgc	AA015455
41336	ctcaattcgactctgcaggcctcgg	AA015455
41337	aattcgactctgcaggcctcggaac	AA015455
41338	actctgcaggcctcggaactgcttc	AA015455
41339	caatgaatctacttgtgttgctgac	AA120586
41340	tgaatctacttgtgttgctgaccat	AA120586
41341	tgtcctcggtgagttcaatgacttt	AA120586
41342	gttcaatgactttcttcaatccata	AA120586
41343	ctttcttcaatccatacttcaggag	AA120586
41344	ctacaagctacagcaggtccatcag	AA120586

SEQ ID NO	sequence	DBAxnID
83881	gagtagcactcgccgctccggcgca	AA104781
83882	caagttgctctctgggtgagtgtgg	AA104781
83883	aagttgctctctgggtgagtgtggt	AA104781
83884	ttgctctctgggtgagtgtggtgaa	AA104781
83885	agtgctgtcatttgctccgaaatgg	AA104781
83886	gtgctgtcatttgctccgaaatggc	AA104781
83887	acacgtcaagatcacgtacgacgcc	AA104781
83888	cacgtcaagatcacgtacgacgccg	AA104781
83889	acgtcaagatcacgtacgacgccgc	AA104781
83890	cgtcaagatcacgtacgacgccgcg	AA104781
83891	tcaagatcacgtacgacgccgcgcg	AA104781
83892	caagatcacgtacgacgccgcgcgc	AA104781
83893	aagatcacgtacgacgccgcgcgcg	AA104781
83894	agatcacgtacgacgccgcgcgcga	AA104781
83895	cggtccctggtgccagctctagcca	AA104787
83896	tccctggtgccagctctagccatga	AA104787
83897	tcaaccaggactacctctcaggcat	AA104787
83898	accaggactacctctcaggcatggc	AA104787
83899	aggactacctctcaggcatggcagc	AA104787
83900	acctctcaggcatggcagccaacat	AA104787
83901	tctcaggcatggcagccaacatgtc	AA104787
83902	tggcagccaacatgtctggaacatt	AA104787
83903	gagccaacgtgccaaatctgtatcc	AA104787
83904	acgtgccaaatctgtatcctggggc	AA104787
83905	tgccaaatctgtatcctggggctcc	AA104787
83906	caaatctgtatcctggggctcctgg	AA104787
83907	ccagctctagccatgagctacccag	AA104787
83908	gctctagccatgagctacccaggct	AA104787
83909	gcatgccccctatcgggctggataa	AA104787
83910	tgccccctatcgggctggataacgt	AA104787
83911	acgtagccaactatgcggggcagtt	AA104787
83912	tagccaactatgcggggcagttcaa	AA104787
83913	ccaactatgcggggcagttcaacca	AA104787
83914	ggcagttcaaccaggactacctctc	AA104787
83915	gctagtcccttctctgatatgctcc	U47850
83916	ctcctgcacccatcagaagagcaat	U47850
83917	cttctgcaatttcagcaatgcttgc	U47850
83918	cagcaatgcttgcctctgacttcat	U47850
83919	ttgcctctgacttcatgccagtgtc	U47850
83920	ctgactgctctcatgtgttccccat	U47850
83921	actgctctcatgtgttccccatata	U47850
83922	gctctcatgtgttccccatataccc	U47850
83923	tgttccccatataccctagctcag	U47850
83924	tataccctagctcaggaaataaag	U47850
83925	ccctaggtgctgtcatctcctcctg	U47850
83926	ctgtcatctcctcctggaagtgtct	U47850
83927	ctgcacccatcagaagagcaatata	U47850
83928	taccctgaatacgggctgctcccag	U47850
83929	cctgaatacgggctgctcccagtcc	U47850
83930	cccccatgaaaacatcaatatcaac	U47850
83931	catcaatatcaaccctggtgtggca	U47850
83932	tatcaaccctggtgtggcatctgtg	U47850
83933	gaatagctaccaaagctccttctgc	U47850
83934	ctccttctgcaatttcagcaatgct	U47850
83935	cagtttccacactgcgagactggga	U36488
83936	ctgaccttccttgatgctgtgggcc	U36488
83937	ctacagcaagcagggaccgagcgca	U36488
83938	gatgtcttcagtgtggccctgaagc	U36488
83939	ttcagtgtggccctgaagcagacac	U36488
83940	gagcagtatatctacctctacaact	U36488
83941	tacctctacaactgtctgaacagcg	U36488
83942	tgtctgaacagcgcattgaggaaca	U36488
83943	aagtgaccttgccctgctaggcatc	U36488
83944	ccttgccctgctaggcatcacgttc	U36488
83945	aggcatcacgttccagcaatccacc	U36488
83946	gcctcacgctgtcaaagggcagagt	U36488
83947	ttccttgatgctgtgggccagtgct	U36488
83948	tgctcccggggcaatagcaagaagc	U36488

SEQ ID NO	sequence	DBAxnID
126485	agtcagtgttctacagtgttctaca	M30440
126486	tgttctacagtgttctacagcatct	M30440
126487	acagtgttctacagcatctggttct	M30440
126488	ttctacagcatctggttctgcatgg	M30440
126489	agcatctggttctgcatggaaagca	M30440
126490	tatttatcatggctttcatgaaatc	M30440
126491	ctttcatgaaatcttcatcaccgac	M30440
126492	tgaaatcttcatcaccgacttacag	M30440
126493	tgcctctaccataagtaagtctgat	M30440
126494	gagagtcacccatggagccagcatc	M30440
126495	agccaactgtaccttggctaacaca	M30440
126496	ctgtaccttggctaacacaaactat	M30440
126497	cttggctaacacaaactatgtgaat	M30440
126498	gaagcctactaatgtactcacagct	M30440
126499	tactaatgtactcacagctcaacag	M30440
126500	tgtactcacagctcaacaggactga	M30440
126501	cacagctcaacaggactgatgcaga	M30440
126502	ttgtgccatcgcaggtgtcttgacc	M30441
126503	aggtgtcttgaccattgcattgcca	M30441
126504	tggaacatgccccctggtctgtgt	M30441
126505	tatgcccttgatttatacatttcca	M30441
126506	cttgatttatacatttccagaccac	M30441
126507	atttccagaccactcatcaaggaaa	M30441
126508	agaccactcatcaaggaaagtacaa	M30441
126509	ttcattctccctattgcttcatact	M30441
126510	ctccctattgcttcatactgaaaca	M30441
126511	attgcttcatactgaaacaggtgcc	M30441
126512	ctgtttttgcaagtgggctgcattc	M30441
126513	tccctgtctcttaattttgtgacca	M30441
126514	cttgaccattgcattgccagttcct	M30441
126515	gcaagcccagtacatgcacgtgggc	M30441
126516	catgcacgtgggcagttgccagcac	M30441
126517	ctcttcagccgaggagctccgaaaa	M30441
126518	gagtaactccactctgagtaagtcg	M30441
126519	agccacttgcaccacgaacaataac	M30441
126520	ctcctgtgtcaacatcaagaagata	M30441
126521	acggttgccaattctgtgcccagta	M30441
126522	tcttccaagtgtcactctgacaggt	K02241
126523	tccaagtgtcactctgacaggttct	K02241
126524	catccttttaatcaaaatggcacca	K02241
126525	cgtgaagaagcccgctgctgcgcct	K02241
126526	aatcgatctgtctgctattaagatc	K02241
126527	atcgatctgtctgctattaagatcg	K02241
126528	gatctgtctgctattaagatcgagt	K02241
126529	tctgtctgctattaagatcgagttc	K02241
126530	taagatcgagttctctaaggagcaa	K02241
126531	gttctctaaggagcaacaggaggac	K02241
126532	ttctctaaggagcaacaggaggact	K02241
126533	ggaggcatttctcctgtttgacaga	K02241
126534	caagtgtcactctgacaggttcttc	K02241
126535	gaggcatttctcctgtttgacagaa	K02241
126536	aagtgtcactctgacaggttcttct	K02241
126537	gtgtcactctgacaggttcttctgg	K02241
126538	ctctgacaggttcttctggaggaga	K02241
126539	tctgacaggttcttctggaggagat	K02241
126540	gacaggttcttctggaggagatcct	K02241
126541	aggttcttctggaggagatccttct	K02241
126542	ttcttctggaggagatccttctttt	K02241
126543	tgtccacgggaggctctgtcgcaag	AA118560
126544	agtctgaagcatccggcttctgtta	AA118560
126545	acatcgtcttggccatcctggaact	AA118560
126546	tcttggccatcctggaactgctaaa	AA118560
126547	tggccatcctggaactgctaaagta	AA118560
126548	ccatcctggaactgctaaagtacca	AA118560
126549	tgctaaagtaccaccagagggtgct	AA118560
126550	taaagtaccaccagagggtgctcta	AA118560
126551	agtaccaccagagggtgctctatat	AA118560
126552	accaccagagggtgctctatattga	AA118560

TABLE 1

SEQ ID NO	sequence	DBAxnID
41345	caagctacagcaggtccatcagtat	AA120586
41346	gctacagcaggtccatcagtatatg	AA120586
41347	acagcaggtccatcagtatatgaag	AA120586
41348	gtatatgaaggcccttcgtgaagag	AA120586
41349	gtattttgatccgagcatggttggg	AA120586
41350	tgatccgagcatggttgggtggaca	AA120586
41351	tacttgtgttgctgaccatatcaac	AA120586
41352	ttgtgttgctgaccatatcaacatg	AA120586
41353	tgttgctgaccatatcaacatggtt	AA120586
41354	tgctgaccatatcaacatggttttc	AA120586
41355	ccatatcaacatggttttcaaaata	AA120586
41356	catatactttgtcctcggtgagttc	AA120586
41357	atactttgtcctcggtgagttcaat	AA120586
41358	ctttgtcctcggtgagttcaatgac	AA120586
41359	ctatgctgtgttggccaacactttc	U51204
41360	tgctgtgttggccaacactttccag	U51204
41361	ttcttttccagggctgacagcaggg	U51204
41362	ttttccagggctgacagcagggctt	U51204
41363	gacagcagggcttggggtagtcttt	U51204
41364	tagagccgagactgggacaggactc	U51204
41365	tttgacttctctctcagtagatgag	U51204
41366	gacttctctctcagtagatgaggga	U51204
41367	gtagacatgacctccaggcactggg	U51204
41368	tccctcctgcagcctagttagacca	U51204
41369	ctcctgcagcctagttagaccacac	U51204
41370	ctgcagcctagttagaccacacaga	U51204
41371	ggccaacactttccagggtgccgct	U51204
41372	caacactttccagggtgccgctgta	U51204
41373	ctccctggcagccagcagctgtata	U51204
41374	cctggcagccagcagctgtatattt	U51204
41375	agccagcagctgtatatttgacaaa	U51204
41376	tggattgcccttgcactttacctgt	U51204
41377	attgcccttgcactttacctgttct	U51204
41378	tacctgttcttttccagggctgaca	U51204
41379	tcactggcggttcaggtcgaagaac	AA015537
41380	agctgactgcgcatctctctggggt	AA015537
41381	ctctagaagatcctgcttgtgtaag	AA015537
41382	tagaagatcctgcttgtgtaagaac	AA015537
41383	atcctgcttgtgtaagaacagagtc	AA015537
41384	tgctttgctcgccaccatgcaggac	AA015537
41385	catgcaggactcattgtctgactcg	AA015537
41386	ctcattgtctgactcgacaagaact	AA015537
41387	attgtctgactcgacaagaacttga	AA015537
41388	gtctgactcgacaagaacttgatca	AA015537
41389	ttgatcatatgcgctaagcgctact	AA015537
41390	atatgcgctaagcgctactagatac	AA015537
41391	tgactgcgcatctctctggggtcca	AA015537
41392	atctctctggggtccatcatattct	AA015537
41393	tctctggggtccatcatattctggg	AA015537
41394	ctggggtccatcatattctgggaag	AA015537
41395	tccatcatattctgggaagtagtcg	AA015537
41396	atacatgagtagctcctctagaaga	AA015537
41397	catgagtagctcctctagaagatcc	AA015537
41398	ctcctctagaagatcctgcttgtgt	AA015537
41399	gagcttccgcattttgctgggaaat	L42996
41400	cttccgcattttgctgggaaatact	L42996
41401	gatttcagtgaccttcagcgagaca	L42996
41402	ttcagtgaccttcagcgagacacga	L42996
41403	agtgaccttcagcgagacacgagaa	L42996
41404	gaccttcagcgagacacgagaaaag	L42996
41405	ggtcttggagtctgttctgtcctcc	L42996
41406	cttggagtctgttctgtcctcccag	L42996
41407	gccctcagtaggagcacgtattaat	L42996
41408	tgctactaatgatcatcttgaaaaa	L42996
41409	ttaatcagatagcttcagggggatt	L42996
41410	atcagatagcttcaggggggattcta	L42996
41411	tacttgactttgcaaactcattttg	L42996
41412	actttgcaaactcattttgtgatat	L42996
83949	accctgctcagtcactccagcaagg	U36488
83950	ctcagtcactccagcaaggtcacaa	U36488
83951	cactccagcaaggtcacaaaccagc	U36488
83952	agcaaggtcacaaaccagctgagca	U36488
83953	accttcttggctatggaacagctgc	U36488
83954	cagctgctacagcaagcagggaccg	U36488
83955	tcctacatcaagatcatggacgtgg	AA104899
83956	aagatcatggacgtgggccagagct	AA104899
83957	tattacctcatgaacatccatgtga	AA104899
83958	ctcatgaacatccatgtgacacccc	AA104899
83959	gagttttccaagcatctggcccagt	AA104899
83960	ttttccaagcatctggcccagttca	AA104899
83961	tccaagcatctggcccagttcatca	AA104899
83962	aagcatctggcccagttcatcagtg	AA104899
83963	catctggcccagttcatcagtgacc	AA104899
83964	cagttcatcagtgaccagaacatta	AA104899
83965	ttcatcagtgaccagaacattaagg	AA104899
83966	gatctgaaggtctggacgagccaga	AA104899
83967	atcatggacgtgggccagagctatg	AA104899
83968	gtgaaccgtgttgctgatcacatcc	AA104899
83969	aaccgtgttgctgatcacatccaga	AA104899
83970	cgtgttgctgatcacatccagagtc	AA104899
83971	gttgctgatcacatccagagtcgca	AA104899
83972	gatcacatccagagtcgcatcgttt	AA104899
83973	cgcatcgtttattacctcatgaaca	AA104899
83974	atcgtttattacctcatgaacatcc	AA104899
83975	aatcggactacctattggatagact	X92122
83976	atagactacattcttcgccatgacg	X92122
83977	ctctacttcatattgtcctatgtga	X92122
83978	ggaatccccaatggcaaatacaaag	X92122
83979	aacagcccaggtgaagggatcagtt	X92122
83980	tgctattctttagtctaacagctac	X92122
83981	gtctaacagctactaaaagtaaatg	X92122
83982	gtcagcaaacaatcctaacatgccc	X92122
83983	catgccctcatcagatcttattaat	X92122
83984	gtaaagagcacaaccctaaatgcaa	X92122
83985	attctaatactgatgcagagagttg	X92122
83986	atactgatgcagagagttggcagtg	X92122
83987	catgacggagcccatcacctccgtt	X92122
83988	tctgctgtccatcagatctctttct	X92122
83989	tatttcctactggatattgcctttg	X92122
83990	ctactggatattgcctttgtgcttc	X92122
83991	gatattgccttttgtgcttctgcttg	X92122
83992	ctgcttggtgctgtcttgctctact	X92122
83993	ggtgctgtcttgctctacttcatat	X92122
83994	gtcttgctctacttcatattgtcct	X92122
83995	gatctctttgaatctgatgatgagg	AA104856
83996	ctaccataagaacgccttgcgcatt	AA104856
83997	acatgactaacctagagcagtgtct	AA104856
83998	tgactaacctagagcagtgtctcga	AA104856
83999	tcgatgcattcatgcagatggcctg	AA104856
84000	atgcattcatgcagatggcctgttc	AA104856
84001	tcatgcagatggcctgttctggggc	AA104856
84002	agatggcctgttctggggctctcta	AA104856
84003	cctgttctggggctctctaaattgg	AA104856
84004	ctctctaaattggttccagtggata	AA104856
84005	tctaaattggttccagtggatatgg	AA104856
84006	aaattggttccagtggatatggatt	AA104856
84007	ccataagaacgccttgcgcattaga	AA104856
84008	agccctgcattggttgcacgtcttc	AA104856
84009	cctgcattggttgcacgtcttccat	AA104856
84010	gcacgtcttccatcctgactgacgt	AA104856
84011	cgtcttccatcctgactgacgtaca	AA104856
84012	tcctgactgacgtacagccttggga	AA104856
84013	agccttgggacgatgggacggacat	AA104856
84014	cggacatgactaacctagagcagtg	AA104856
84015	cacagcagccagtgaccgaaggaca	D01093
84016	ttacacctgctgcagcagcctgagc	D01093
126553	ttgatattcaccatggcgatggcgt	AA118560
126554	atattcaccatggcgatggcgtgga	AA118560
126555	ctgaagcatccggcttctgttacgt	AA118560
126556	ttcaccatggcgatggcgtggaaga	AA118560
126557	aagcatccggcttctgttacgtcaa	AA118560
126558	catccggcttctgttacgtcaatga	AA118560
126559	ccggcttctgttacgtcaatgacat	AA118560
126560	gcttctgttacgtcaatgacatcgt	AA118560
126561	gttacgtcaatgacatcgtcttggc	AA118560
126562	acgtcaatgacatcgtcttggccat	AA118560
126563	tcaatgacatcgtcttggccatcct	AA118560
126564	tggacacccttaatgtttctatggc	AA014295
126565	agttccagggcatgccccttgcacg	AA014295
126566	tggaagtcccgatagacaagctgag	AA014295
126567	aagtcccgatagacaagctgagatg	AA014295
126568	tccgtcctatgccgctacaattgct	AA014295
126569	ctatgccgctacaattgcttccaaa	AA014295
126570	cgctacaattgcttccaaactggcg	AA014295
126571	tacaattgcttccaaactggcgatt	AA014295
126572	ttccaaactggcgattcacaaccca	AA014295
126573	caaactggcgattcacaacccaaat	AA014295
126574	tcacaacccaaatttacctgccact	AA014295
126575	caacccaaatttacctgccactctg	AA014295
126576	tccagggcatgccccttgcacgtac	AA014295
126577	aaatttacctgccactctgccagtt	AA014295
126578	ttgcacgtacaccatgccaagtcag	AA014295
126579	gtacaccatgccaagtcagtttctt	AA014295
126580	catgccaagtcagtttcttccacag	AA014295
126581	tcagtttcttccacagcaggccacc	AA014295
126582	gtcaccaccaagctcagagcctgga	AA014295
126583	aagctcagagcctggaagtcccgat	AA014295
126584	agagcctggaagtcccgatagacaa	AA014295
126585	ggcagcctgcacccatcagctgagc	W41716
126586	ctgcacccatcagctgagctctgga	W41716
126587	cagcaggatcgcatgggctaccagc	W41716
126588	cagctgcatggatctgaggttaatg	W41716
126589	gttaatggctcgctcccagctgtat	W41716
126590	ggctcgctcccagctgtatccagct	W41716
126591	tcgctcccagctgtatccagcttttt	W41716
126592	ctcccagctgtatccagcttttcgg	W41716
126593	gtatccagcttttcggctgcccctg	W41716
126594	tccagcttttcggctgcccctggca	W41716
126595	gctgcccctggcacttacagtggga	W41716
126596	cctggcacttacagtgggacttccg	W41716
126597	cacccatcagctgagctctggagta	W41716
126598	ccatcagctgagctctggagtacgc	W41716
126599	gagctctggagtacgcctagccagg	W41716
126600	ctctggagtacgcctagccaggtgg	W41716
126601	agtacgcctagccaggtgggctttg	W41716
126602	gggcccatgctaggtgacggctctt	W41716
126603	cccatgctaggtgacggctcttccc	W41716
126604	cttgcaccgggcagcagctccgtgg	W41716
126605	cacctccactggagagcctaaagca	
126606	ctccactggagagcctaaagcaaca	
126607	ttcattgtttgaccggactccaacg	
126608	tcattgtttgaccggactccaacgg	
126609	taggggtcccacctccactggagag	
126610	tcccacctccactggagagcctaaa	
126611	ttcattgtttgaccggactccaacg	
126612	tcattgtttgaccggactccaacgg	
126613	cccacctccactggagagcctaaag	
126614	ccacctccactggagagcctaaagc	
126615	cacctccactggagagcctaaagca	
126616	ctccactggagagcctaaagcaaca	
126617	gctccagctgcatccgcactccgga	
126618	ctccagctgcatccgcactccggag	
126619	tccagctgcatccgcactccggagc	
126620	atccgcactccggagcccctcaagg	

TABLE 1

SEQ ID NO	sequence	DBAxnID
41413	ttgcaaactcattttgtgatataaa	L42996
41414	accataagcatagcatcgctgtctt	L42996
41415	ataagcatagcatcgctgtcttttt	L42996
41416	ttgttgccttttgatttcagtgacc	L42996
41417	ttgccttttgatttcagtgaccttc	L42996
41418	ccttttgatttcagtgaccttcagc	L42996
41419	gggacccacaagcgcaaactcagtg	AA138324
41420	acccacaagcgcaaactcagtgcct	AA138324
41421	agcgctcaggttccagctacggtca	AA138324
41422	gctcaggttccagctacggtcatcc	AA138324
41423	gttccagctacggtcatccagtgcc	AA138324
41424	ccagctacggtcatccagtgccata	AA138324
41425	gctacggtcatccagtgccataact	AA138324
41426	acggtcatccagtgccataacttttt	AA138324
41427	ggtcatccagtgccataacttttaa	AA138324
41428	gtcatccagtgccataacttttaaa	AA138324
41429	tccagtgccataacttttaaaggat	AA138324
41430	cagtgccataacttttaaaggatat	AA138324
41431	cacaagcgcaaactcagtgcctagc	AA138324
41432	gccagactctcgcccagagggcttg	AA138324
41433	agactctcgcccagagggcttgggc	AA138324
41434	ctctcgcccagagggcttgggccca	AA138324
41435	gatgcggacgccatgctaaaagcca	AA138324
41436	gacgccatgctaaaagccaaaatgg	AA138324
41437	gccaaaatggctgccccaaggatgc	AA138324
41438	atggctgccccaaggatgcccgcag	AA138324
41439	gcagcgacggtcttgtgtgttgcag	AA015546
41440	cagcgacggtcttgtgtgttgcaga	AA015546
41441	tttagaagcggcacgagcggtcaag	AA015546
41442	ttagaagcggcacgagcggtcaaga	AA015546
41443	agaagcggcacgagcggtcaagatg	AA015546
41444	aagcggcacgagcggtcaagatgat	AA015546
41445	agcggcacgagcggtcaagatgatg	AA015546
41446	cggcacgagcggtcaagatgatgaa	AA015546
41447	agcgacggtcttgtgtgttgcagag	AA015546
41448	ggctcctagtcgccgcggtcctgaa	AA015546
41449	tcctagtcgccgcggtcctgaacct	AA015546
41450	agatgtgccgggtatatttggggat	AA015546
41451	atgtgccgggtatatttggggatga	AA015546
41452	tgtgccgggtatatttggggatgaa	AA015546
41453	cttttagaagcggcacgagcggtca	AA015546
41454	ttttagaagcggcacgagcggtcaa	AA015546
41455	gttatctgctcaggtatcaaggatg	AA015555
41456	ttatctgctcaggtatcaaggatgc	AA015555
41457	tcattgcctgaggatgccatttgcg	AA015555
41458	attgcctgaggatgccatttgcgtt	AA015555
41459	ttgcctgaggatgccatttgcgtta	AA015555
41460	gatgccatttgcgttagttctagtc	AA015555
41461	tgccatttgcgttagttctagtcgt	AA015555
41462	gccatttgcgttagttctagtcgtg	AA015555
41463	ttgcgttagttctagtcgtgcagaa	AA015555
41464	tgcgttagttctagtcgtgcagaat	AA015555
41465	cgttagttctagtcgtgcagaatgt	AA015555
41466	gttagttctagtcgtgcagaatgtt	AA015555
41467	atctgctcaggtatcaaggatgcct	AA015555
41468	ttagttctagtcgtgcagaatgttc	AA015555
41469	tctgctcaggtatcaaggatgcctt	AA015555
41470	atcaaggatgccttcaaactctttt	AA015555
41471	aggatgccttcaaactcttttccag	AA015555
41472	gatgccttcaaactcttttccagta	AA015555
41473	gcagaatcattgcctgaggatgcca	AA015555
41474	agaatcattgcctgaggatgccatt	AA015555
41475	atcattgcctgaggatgccatttgc	AA015555
41476	gctcgagcacttttaggccaacatt	AA015388
41477	gagatttcccaccagaaccttgtag	AA015388
41478	aaccttgtagcacgtgtgagagcat	AA015388
41479	aagactctggagctgagctacaagg	AA015388
41480	tgtagcaaggtctcaacggatcggc	AA015388

SEQ ID NO	sequence	DBAxnID
84017	cacagatccctggaggctggagagc	D01093
84018	cagctgctcccagtggaagagatgt	D01093
84019	ctgctcccagtggaagagatgtgtc	D01093
84020	atgtgtccttactcattttggagca	D01093
84021	tgtccttactcattttggagcaggt	D01093
84022	gaggtcagaccacagccaccaatca	D01093
84023	gtcagaccacagccaccaatcatct	D01093
84024	ttccctgtctccaagccatccatag	D01093
84025	aagccatccatagccccatgtctaa	D01093
84026	tccatagccccatgtctaacctcat	D01093
84027	cacctgctgcagcagcctgagcagc	D01093
84028	ccccatgtctaacctcatagttgcc	D01093
84029	cagctaccagtcttgggccatggtg	D01093
84030	gtcttgggccatggtgctggctctg	D01093
84031	ccaggctagataccccagtgcccaa	D01093
84032	cagtgcccaaaaccatgcatgcaca	D01093
84033	ccaaaaccatgcatgcacagatccc	D01093
84034	ccatgcatgcacagatccctggagg	D01093
84035	atgcacagatccctggaggctggag	D01093
84036	caagtcatccatatttcattggtgt	U49385
84037	atccatatttcattggtgtccagtt	U49385
84038	gaagctctttcttgcctcaggaata	U49385
84039	ctttcttgcctcaggaatagcagaa	U49385
84040	agcagaagctacctaagaggcctct	U49385
84041	agctacctaagaggcctctgaagtc	U49385
84042	ctaagaggcctctgaagtcattata	U49385
84043	gtctgaagaaaccaccacactgttc	U49385
84044	actgttccctagacatgggctgtga	U49385
84045	ttcatgcaacagaaccaaaggggtc	U49385
84046	cttttccctccagaggcagcctgta	U49385
84047	agtagtcacacatttctatccttaa	U49385
84048	atttcattggtgtccagttccatcc	U49385
84049	ctgagttttcctctaggccaatgaa	U49385
84050	tttcctctaggccaatgaagccttc	U49385
84051	cgtacctggggctcttacttgcagc	U49385
84052	tcttacttgcagcaacggggaatct	U49385
84053	acaagctgccatacagtgatggata	U49385
84054	atgccagcgatgacagctttccaga	U49385
84055	tcaactgaagctctttcttgcctca	U49385
84056	cgctcacaccaggttacccagcaaa	AA104937
84057	caccaggttacccagcaaatgaaca	AA104937
84058	atgatgcacagaaactcttagaaca	AA104937
84059	atgcacagaaactcttagaacacat	AA104937
84060	tgccttacaacgtgggacctggctt	AA104937
84061	acaacgtgggacctggctttgctgg	AA104937
84062	tgggacctggctttgctggaaactt	AA104937
84063	tttcaacacaaaaggtcaagatgca	AA104937
84064	agatgcatattcactcttacactaa	AA104937
84065	tgcatattcactcttacactaaagt	AA104937
84066	atattcactcttacactaaagtgac	AA104937
84067	actcttacactaaagtgacaagaat	AA104937
84068	caggttacccagcaaatgaacatgc	AA104937
84069	gttacccagcaaatgaacatgctta	AA104937
84070	tgacaaacgctgttggccttccaag	AA104937
84071	caaacgctgttggccttccaagtat	AA104937
84072	ctgttggccttccaagtattcctgt	AA104937
84073	ttggccttccaagtattcctgtcca	AA104937
84074	gccttccaagtattcctgtccatcc	AA104937
84075	tccatcctattggatatgatgatgc	AA104937
84076	tccaacaggttgactacagtcagtg	U55861
84077	aggttgactacagtcagtggggcca	U55861
84078	ctccaaaccaagctgggtatggaat	U55861
84079	tggcaagcttcccgacacagtgagc	U55861
84080	ttgtaattcaccacaggctgcagtc	U55861
84081	ttcaccacaggctgcagtctcctgt	U55861
84082	tgcagtctcctgtcacactctgaag	U55861
84083	ctcctgtcacactctgaagacatga	U55861
84084	tcacactctgaagacatgaaaagta	U55861

SEQ ID NO	sequence	DBAxnID
126621	taggggtcccacctccactggagag	
126622	tcccacctccactggagagcctaaa	
126623	ttcattgtttgaccggactccaacg	
126624	tcattgtttgaccggactccaacgg	
126625	cccacctccactggagagcctaaag	
126626	ccacctccactggagagcctaaagc	
126627	cacctccactggagagcctaaagca	
126628	ctccactggagagcctaaagcaaca	
126629	gctccagctgcatccgcactccgga	
126630	ctccagctgcatccgcactccggag	
126631	tccagctgcatccgcactccggagc	
126632	atccgcactccggagcccctcaagg	
126633	tggccatgataaccgtgtcgagctg	W41722
126634	gccatgataaccgtgtcgagctgcc	W41722
126635	ccgtgtcgagctgccttggggtcac	W41722
126636	cgtgtcgagctgccttggggtcaca	W41722
126637	gtgtcgagctgccttggggtcacag	W41722
126638	tgtcgagctgccttggggtcacaga	W41722
126639	gcatgcccacactacaggcccggag	W41722
126640	atgcccacactacaggcccggagct	W41722
126641	tgcccacactacaggcccggagctt	W41722
126642	cacactacaggcccggagctttggg	W41722
126643	ctacaggcccggagctttggggctg	W41722
126644	ccatgataaccgtgtcgagctgcct	W41722
126645	catgataaccgtgtcgagctgcctt	W41722
126646	atgataaccgtgtcgagctgccttg	W41722
126647	tgataaccgtgtcgagctgccttgg	W41722
126648	gataaccgtgtcgagctgccttggg	W41722
126649	ataaccgtgtcgagctgccttgggg	W41722
126650	taaccgtgtcgagctgccttggggt	W41722
126651	accgtgtcgagctgccttggggtca	W41722
126652	tgtctactaggtgtccctctgaggc	M57625
126653	agttccgtcttgagtccctagccat	M57625
126654	ctcatttgagcctcttggcccttgg	M57625
126655	tcttggcccttgggtgctcatggcc	M57625
126656	cccttgggtgctcatggccattcct	M57625
126657	catggccattcctgcacacacacat	M57625
126658	cattcctgcacacacacatatgctt	M57625
126659	tgcacacacacatatgcttatatct	M57625
126660	cacacatatgcttatatctggaact	M57625
126661	tatatctggaactttctgctgaagg	M57625
126662	tggaactttctgctgaagggagctg	M57625
126663	tttctgctgaagggagctgttggtt	M57625
126664	tccctctcttctgtggctcattaaa	M57625
126665	tcgaggccagtctgggatatgtgag	M57625
126666	atgtgaggcaccatcccaagaccat	M57625
126667	ataagttcatgcagcggcacatttg	M57625
126668	acatttgcctgctacagtacacaac	M57625
126669	tacagtacacaacatcacatctggc	M57625
126670	acacaacatcacatctggctgctcc	M57625
126671	tccagtcactttgctttgggtattc	M57625
126672	gggcttctgctgcatctaacattgg	AA089117
126673	cttctgctgcatctaacattggcgg	AA089117
126674	accacgcagggcctcaagctggtga	AA089117
126675	acgcagggcctcaagctggtgaccg	AA089117
126676	cagggcctcaagctggtgaccgcgc	AA089117
126677	ctcgggccacagagcggactgctgc	AA089117
126678	ccacagagcggactgctgcgtttcc	AA089117
126679	ctgctgcgtttccccgaaagatcaa	AA089117
126680	gaaatcggcaagcttctgaattcct	AA089117
126681	ggcaagcttctgaattcctacttgg	AA089117
126682	gaggatcactccgtgcacctgctct	AA089117
126683	ggatcactccgtgcacctgctcttc	AA089117
126684	ctgctgcatctaacattggcgggaa	AA089117
126685	gatcactccgtgcacctgctcttct	AA089117
126686	ctgcatctaacattggcgggaacct	AA089117
126687	catctaacattggcgggaacctggc	AA089117
126688	ctaacattggcgggaacctggcaag	AA089117

TABLE 1

SEQ ID NO	sequence	DBAxnID
41481	agcaaggtctcaacggatcggcaca	AA015388
41482	tctgagtaccagaaaccaccaacaa	AA015388
41483	ctgagtaccagaaaccaccaacaag	AA015388
41484	tgagtaccagaaaccaccaacaaga	AA015388
41485	gagtaccagaaaccaccaacaagag	AA015388
41486	taccagaaaccaccaacaagagcct	AA015388
41487	agagcctaaagacaacacttgaaga	AA015388
41488	ttcccaccagaaccttgtagcacgt	AA015388
41489	tcccaccagaaccttgtagcacgtg	AA015388
41490	cccaccagaaccttgtagcacgtgt	AA015388
41491	ccaccagaaccttgtagcacgtgtg	AA015388
41492	accagaaccttgtagcacgtgtgag	AA015388
41493	ccagaaccttgtagcacgtgtgaga	AA015388
41494	cagaaccttgtagcacgtgtgagag	AA015388
41495	agaaccttgtagcacgtgtgagagc	AA015388
41496	ttactgtttttctgtgaagcacata	U41751
41497	agttgctccagtcactccctctata	U41751
41498	tggacaagtgccactgcatcatagt	U41751
41499	agtgccactgcatcatagtatgctc	U41751
41500	actgcatcatagtatgctcggagaa	U41751
41501	aatttactgttgccactgccaggtc	U41751
41502	ctgttgccactgccaggtcacactg	U41751
41503	ccactgccaggtcacactggtgttt	U41751
41504	aatactgggtgcttcatataggaac	U41751
41505	taaaccattcaacctgtgattggtg	U41751
41506	attcaacctgtgattggtgatgttt	U41751
41507	gatgttttcctgtcattttaagagt	U41751
41508	cactccctctatagccatactgtct	U41751
41509	agccatactgtcttgttttctgtaa	U41751
41510	actgtcttgttttctgtaactcagg	U41751
41511	tctctattctctgctgcagaaaagg	U41751
41512	gatagacctcagccaaactggctgg	U41751
41513	cctcagccaaactggctgggttttg	U41751
41514	tcatgttctttcttcccttgaaggg	U41751
41515	tggtaccagttctggacaagtgcca	U41751
41516	cttcatggaccactctgtagctttc	AA163608
41517	catggaccactctgtagctttcagg	AA163608
41518	agtccatcacttcactaaggtggag	AA163608
41519	ccatcacttcactaaggtggagatg	AA163608
41520	cttcactaaggtggagatgtttggg	AA163608
41521	gactcgcagctgttggatgagtcct	AA163608
41522	agatcttgacggagctgggcttgac	AA163608
41523	tgacttccgggtactggacatgcca	AA163608
41524	cttccgggtactggacatgccacca	AA163608
41525	actggacatgccaccagaactggcc	AA163608
41526	ggacatgccaccagaactggccttc	AA163608
41527	catgccaccagaactggccttcctg	AA163608
41528	ggaccactctgtagctttcagggac	AA163608
41529	ctctgtagctttcagggaccttcca	AA163608
41530	cagggaccttccagtcaggatggtc	AA163608
41531	ggaccttccagtcaggatggtctgt	AA163608
41532	ctgtgccagcacctgctaccgggca	AA163608
41533	tgccagcacctgctaccgggcagag	AA163608
41534	cagcacctgctaccgggcagagaca	AA163608
41535	ctgctaccgggcagagacagacact	AA163608
41536	atgtaatgccacgaactccattggc	AA015570
41537	gtaatgccacgaactccattggctc	AA015570
41538	gaaatcatcatccttgtggtgatca	AA015570
41539	atgatgaaccagctgggccaatgaa	AA015570
41540	gatgaaccagctgggccaatgaaaa	AA015570
41541	tgaaccagctgggccaatgaaaacc	AA015570
41542	caactctaccaacaatcacaaagat	AA015570
41543	actctaccaacaatcacaaagatca	AA015570
41544	tctaccaacaatcacaaagatcaga	AA015570
41545	atcacaaagatcagaacttgcgcca	AA015570
41546	aagatcagaacttgcgccagagaga	AA015570
41547	gatcagaacttgcgccagagagaca	AA015570
41548	aatgccacgaactccattggctctg	AA015570

SEQ ID NO	sequence	DBAxnID
84085	tttggaacctttagcacagctttgc	U55861
84086	acctttagcacagctttgcttggtg	U55861
84087	cacatgtcttctagttctgcctttt	U55861
84088	actacagtcagtggggccagtggag	U55861
84089	tgtatggaaacccacaacagtatgg	U55861
84090	gaaacccacaacagtatggacagta	U55861
84091	caccctatggagtatatgggcagcc	U55861
84092	tatatgggcagccgtggaaccaaca	U55861
84093	tagatcaatccccttctgctgcttg	U55861
84094	aatccccttctgctgcttggatggg	U55861
84095	ttggtgctcagcctcctcaaggaca	U55861
84096	ggtaagatcactttcatcagaaatt	U64445
84097	cagtcgctgcggaagaagggaagaa	U64445
84098	tgcagtgtctttagcccatcatggc	U64445
84099	gtctttagcccatcatggctactca	U64445
84100	agcccatcatggctactcaggccag	U64445
84101	aggccagcacttgagtaccacacaa	U64445
84102	gcacttgagtaccacacaaagatgg	U64445
84103	gagtaccacacaaagatggcctctg	U64445
84104	cacacaaagatggcctctgtttttta	U64445
84105	atttacagtgactcagaagggatct	U64445
84106	gggatctcatccagatgaaaggctc	U64445
84107	aaggctctcattttaatctgctcgc	U64445
84108	ttgcacctggcttacagttactggc	U64445
84109	tcattttaatctgctcgctctcagt	U64445
84110	tacagttactggctctgacaagttc	U64445
84111	tactggctctgacaagttcagagat	U64445
84112	gaactatcaagcttgtcctggatac	U64445
84113	taactccagcttcagggccctcaca	U64445
84114	cagggccctcacagcctcagcagag	U64445
84115	cttcttccccatgtctgttcatggt	U64445
84116	ccccatgtctgttcatggtgcagtg	U64445
84117	ttgcttcccaggccaacagctggga	U69133
84118	cccaggccaacagctgggacttctt	U69133
84119	ttccataggcaccagccaataagat	U69133
84120	aggcaccagccaataagatgaccac	U69133
84121	ataagatgaccactcatgaggtgat	U69133
84122	tgaccactcatgaggtgatcagagc	U69133
84123	ggagtcttcagccagccagatggaa	U69133
84124	aaagtgcacacaatctttgtctttg	U69133
84125	cacacaatctttgtctttggctgaa	U69133
84126	gtctttggctgaattcacaggactt	U69133
84127	atcatttacctccagtcttgttata	U69133
84128	tacctccagtcttgttatagagata	U69133
84129	ccaacagctgggacttctttattat	U69133
84130	tttctgtgatcatctcaagaagatg	U69133
84131	gtctgttatttccataagctccttt	U69133
84132	tatttccataagctcctttacttgt	U69133
84133	cataagctcctttacttgtggaaat	U69133
84134	ctcctttacttgtggaaatgaaatg	U69133
84135	agagacagctcataaagctgtataa	U69133
84136	aagagtgtgcctggataggaattat	U69133
84137	caattcggacagtgatccaaataca	AA105509
84138	aattcggacagtgatccaaatacat	AA105509
84139	ttccattatattctacacttccacg	AA105509
84140	cattatattctacacttccacgcca	AA105509
84141	attatattctacacttccacgccag	AA105509
84142	tatattctacacttccacgccagca	AA105509
84143	atattctacacttccacgccagcag	AA105509
84144	ttctacacttccacgccagcagcaa	AA105509
84145	tccacgccagcagcaacaacgcatt	AA105509
84146	acgccagcagcaacaacgcatttttt	AA105509
84147	gccagcagcaacaacgcatttttga	AA105509
84148	agcagcaacaacgcatttttgagcc	AA105509
84149	cagtgatccaaatacatatgtgtga	AA105509
84150	gcagcaacaacgcatttttgagcca	AA105509
84151	tgatccaaatacatatgtgtgaaga	AA105509
84152	gagaccttcttcttttcttgactgg	AA105509

SEQ ID NO	sequence	DBAxnID
126689	acattggcgggaacctggcaagttg	AA089117
126690	acctggcaagttgaccggtgctgtg	AA089117
126691	cgtgctggcaagaccacgcagggcc	AA089117
126692	aagaccacgcagggcctcaagctgg	AA089117
126693	actgtgctggagccactaactagaa	M86390
126694	ctggagccactaactagaaaagcct	M86390
126695	cctagctctctagaatagagcattt	M86390
126696	ctcagagacacgcattccttttggt	M86390
126697	cccatatacacttactgttgtcctc	M86390
126698	tacacttactgttgtcctctgggac	M86390
126699	tactgttgtcctctgggactcatgt	M86390
126700	tgtcctctgggactcatgtgtgaag	M86390
126701	cagtcctgtgatttgcaaagattgg	M86390
126702	tagcctcttaattaagtctatccct	M86390
126703	tctacctcccatattggacctatta	M86390
126704	cctattacaaatctagtcccagtgg	M86390
126705	ttggagccatgccaaacgttcagta	M86390
126706	ccatgccaaacgttcagtatagcca	M86390
126707	caaacgttcagtatagccatgggac	M86390
126708	ggcaaacaaatggcccactgtggtg	M86390
126709	gccaatggaatctccttttccttct	M86390
126710	tccttttccttctttgtcacactca	M86390
126711	tccttctttgtcacactcattcaac	M86390
126712	attcaacctagctctctagaataga	M86390
126713	ggccagagtcccatggatctaactg	M32057
126714	atggatctaactgtctccacttccc	M32057
126715	ctggtttctcatatgggtagagtgt	M32057
126716	tctaatgcaattctgccagtgttgt	M32057
126717	ttttttaactgcaagaactctgtat	M32057
126718	tctgtatttttccaagcacagcatg	M32057
126719	caagcacagcatggttcccttcatt	M32057
126720	ggttcccttcattcatattctctga	M32057
126721	tcatattctctgagaaattggaatt	M32057
126722	tggaattcatgtttcctctgaaatt	M32057
126723	tcatgtttcctctgaaattatgtgc	M32057
126724	tattccatttaagtcctaaatagct	M32057
126725	gctagggttgcggatgtgtgccacc	M32057
126726	tcctaaatagctctctttaaactgt	M32057
126727	gatgtgtgccaccacatccaaccttt	M32057
126728	tggattctgtctcaagctttctaga	M32057
126729	gctttgctgcctaagctatgtccca	M32057
126730	aagctatgtcccagggctccagttt	M32057
126731	tgtcccagggctccagtttaatact	M32057
126732	gagtactcagcacattttatgttat	M32057
126733	gttactctggtttctcatatgggta	M32057
126734	tcaggccaggacgaccgagggcttt	L04678
126735	tgggccagagcgtgagggtatcatc	L04678
126736	tctaaccctggggacccagcgcctg	L04678
126737	gacccagcgcctggaagcaggaggc	L04678
126738	cacccggcatgtgacccaggaattc	L04678
126739	gcatgtgacccaggaattcgtgacc	L04678
126740	cttaacggccagtggctctctcagc	L04678
126741	tctcagcactcatatggaccaacag	L04678
126742	cactcatatggaccaacagttcttc	L04678
126743	ctgctgctctacccacgagcttgct	L04678
126744	ccacgagcttgctgaccacagagcc	L04678
126745	tgctgtccaggaaccataaagtggg	L04678
126746	caccatcgagtctcaggttggaggc	L04678
126747	cagcaattctgggctcttccagaac	L04678
126748	gctcttccagaacccagtgcaaagc	L04678
126749	ccagaacccagtgcaaagcgagttc	L04678
126750	cgagttcagcagcgtgaccagcacg	L04678
126751	cagcacgcacagcaccacgactgag	L04678
126752	gactgagcccttcctcatggatggt	L04678
126753	gcccttcctcatggatggtctaacc	L04678
126754	tgtgccactaggagggtcctttgtc	M64640
126755	agggtcctttgtcacattcagtgct	M64640
126756	ttgggcactcttccttttatccttg	M64640

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
41549	ccacgaactccattggctctgcgtt	AA015570	84153	ttcttcttttcttgactggtcaaga	AA105509	126757	ttttcctatcttacaagatccatgg	M64640
41550	acgaactccattggctctgcgttcg	AA015570	84154	ttaaaatcattccattatattctac	AA105509	126758	tatcttacaagatccatgggatctg	M64640
41551	gaactccattggctctgcgttcgtt	AA015570	84155	aaatcattccattatattctacact	AA105509	126759	gaattcatggatcccatacaatgcc	M64640
41552	actccattggctctgcgttcgtttc	AA015570	84156	aatcattccattatattctacactt	AA105509	126760	atggatcccatacaatgccgcccaa	M64640
41553	ttcttgggaattctggctgaaatca	AA015570	84157	cattccattatattctacacttcca	AA105509	126761	cgcccaacacttgagcttggaccct	M64640
41554	aattctggctgaaatcatcatccttt	AA015570	84158	tcatggctttatccaggcatctgat	U70017	126762	acacttgagcttggacccttgtgaa	M64640
41555	ctgaaatcatcatccttgtggtgat	AA015570	84159	ctttatccaggcatctgatgttata	U70017	126763	gagcttggacccttgtgaacttttg	M64640
41556	cataaccccagtccgtggatctctg	AA154444	84160	ttgtgactacattgtctccaaagaa	U70017	126764	gtaactagcattcttagggcttggg	M64640
41557	taaccccagtccgtggatctctgga	AA154444	84161	ttaagccatgcacattgttgctgct	U70017	126765	gcttggggtccaaggccatgtattg	M64640
41558	aactgcgtcgctaggatgaagctcg	AA154444	84162	catgcacattgttgctgctgttact	U70017	126766	ctttgtcacattcagtgcttgtgga	M64640
41559	atgggacacaagtccatggaacaat	AA154444	84163	ctccttctcagtagatcatctaggg	U70017	126767	cacattcagtgcttgtggacaagcg	M64640
41560	cacaagtccatggaacaatcacagg	AA154444	84164	gcagtcactgcagctacttatcatc	U70017	126768	tcacccttgctgtggcattgtggag	M64640
41561	acaatcacaggtgtagatgtcagca	AA154444	84165	actgcagctacttatcatcaccaga	U70017	126769	cggatctcagccctacgatacagct	M64640
41562	atgtcagcatgaacacacacctttaa	AA154444	84166	gctacttatcatcaccagagcttaa	U70017	126770	tcagccctacgatacagcttcagtt	M64640
41563	gtcagcatgaacacacacctttaaag	AA154444	84167	tatcatcaccagagcttaactactc	U70017	126771	ctacgatacagcttcagttgcatga	M64640
41564	gcatgaacacacacctttaaagctgt	AA154444	84168	gtgatctctgcagttagacacacag	U70017	126772	tacagcttcagttgcatgagttggg	M64640
41565	atgaacacacacctttaaagctgtga	AA154444	84169	gttagacacacagctctcgtccaga	U70017	126773	gtccgacttcatgaggagaacaacc	M64640
41566	acacacaccttaaagctgtgaaaat	AA154444	84170	tgaatctgtcttgcctttgacaaca	U70017	126774	gcaagttcaagttccctggcgcaga	W41773
41567	acacaccttaaagctgtgaaaatga	AA154444	84171	acacagctctcgtccagactcaagc	U70017	126775	caagttcaagttccctggcgcagaa	W41773
41568	ccgtggatctctggagcctgaattc	AA154444	84172	gcctttgacaacactaacagatcca	U70017	126776	tgttgctgaaacggctcattctgat	W41773
41569	gtggatctctggagcctgaattctg	AA154444	84173	gacaacactaacagatccaatattc	U70017	126777	tgctgaaacggctcattctgatggc	W41773
41570	atctctggagcctgaattctgtgaa	AA154444	84174	actaacagatccaatattccagcat	U70017	126778	gctgaaacggctcattctgatggct	W41773
41571	agcctgaattctgtgaacagtcggg	AA154444	84175	agatccaatattccagcatcatcag	U70017	126779	tgaaacggctcattctgatggctgt	W41773
41572	tgaattctgtgaacagtcgggccag	AA154444	84176	ccagcatcatcaggaagcatcaaat	U70017	126780	gaaacggctcattctgatggctgtg	W41773
41573	aattctgtgaacagtcgggccagaa	AA154444	84177	tggatcatctttgggcagtcctgtt	U70017	126781	aacggctcattctgatggctgtgtg	W41773
41574	ctgtgaacagtcgggccagaaggga	AA154444	84178	gccacattgtgactacattgtctcc	U70017	126782	acggctcattctgatggctgtgtgt	W41773
41575	acagtcgggccagaagggagaactg	AA154444	84179	agacggccaggtacgagttgtgcca	AA105557	126783	ggctcattctgatggctgtgtgtaa	W41773
41576	ttcattcgaccattctacaagatga	AA118878	84180	acggccaggtacgagttgtgccata	AA105557	126784	gctcattctgatggctgtgtgtaat	W41773
41577	attcgaccattctacaagatgatgc	AA118878	84181	aggtgctcggcaccatgcagattgt	AA105557	126785	cattctgatggctgtgtgtaatata	W41773
41578	gaacttgacctcatgttctgcatag	AA118878	84182	gtgctcggcaccatgcagattgttt	AA105557	126786	agttcaagttccctggcgcagaaga	W41773
41579	cttgacctcatgttctgcatagacg	AA118878	84183	tgctcggcaccatgcagattgtttt	AA105557	126787	attctgatggctgtgtgtaatatat	W41773
41580	gacctcatgttctgcatagacgaag	AA118878	84184	tcggcaccatgcagattgttttgga	AA105557	126788	gttcaagttccctggcgcagaagat	W41773
41581	ctcatgttctgcatagacgaagaga	AA118878	84185	cggcaccatgcagattgttttggag	AA105557	126789	cagaagatcacatctcaaagaagtg	W41773
41582	atgttctgcatagacgaagagaact	AA118878	84186	ggcaccatgcagattgttttggaga	AA105557	126790	agaagatcacatctcaaagaagtgg	W41773
41583	acataccaagtggatctgaagccca	AA118878	84187	gcaccatgcagattgttttggagac	AA105557	126791	aagatcacatctcaaagaagtgggg	W41773
41584	tacattgacttagtcatccagtgga	AA118878	84188	accatgcagattgttttggagacag	AA105557	126792	agatcacatctcaaagaagtggggc	W41773
41585	attgacttagtcatccagtggagat	AA118878	84189	gttactgacgtgtcaggttttgacg	AA105557	126793	atcacatctcaaagaagtggggctc	W41773
41586	gacttagtcatccagtggagatttg	AA118878	84190	ttactgacgtgtcaggttttgacgt	AA105557	126794	tcacatctcaaagaagtggggctca	W41773
41587	ttagtcatccagtggagatttgtga	AA118878	84191	ggttgacccttgatgcccgtactat	AA105557	126795	ctgaatggcaatctcctggtaccca	M58589
41588	cgaccattctacaagatgatgctgg	AA118878	84192	tgcccgtactattcgggaccctgat	AA105557	126796	gtacccaaaaactccagcagcagca	M58589
41589	ccattctacaagatgatgctgggga	AA118878	84193	cctgatcgcctcatgaaggtgctcg	AA105557	126797	aagctcagcatcccttatgaaagtt	M58589
41590	ttctacaagatgatgctggggaagc	AA118878	84194	ctgatcgcctcatgaaggtgctcgg	AA105557	126798	agcatcccttatgaaagtttctatg	M58589
41591	atggagtccgtggacagcgagtact	AA118878	84195	tgatcgcctcatgaaggtgctcggc	AA105557	126799	aagctcaacaagccctccaagcttg	M58589
41592	agcgagtactacaactctttgaagt	AA118878	84196	gatcgcctcatgaaggtgctcggca	AA105557	126800	ccctccaagcttgaaggctctgaag	M58589
41593	gaccccacggaacttgacctcatgt	AA118878	84197	cctcatgaaggtgctcggcaccatg	AA105557	126801	aggctgctgcaagctctcatggaca	M58589
41594	cccacggaacttgacctcatgttct	AA118878	84198	tgaaggtgctcggcaccatgcagat	AA105557	126802	ctgcaagctctcatggacatcctaa	M58589
41595	acggaacttgacctcatgttctgca	AA118878	84199	agcttcagtccttcagtgataggca	D86037	126803	gctctcatggacatcctaaatgagg	M58589
41596	ccccgcagccaggtctatgaagacc	U45980	84200	agtccttcagtgataggcaacctag	D86037	126804	aagtgtgttgcctgagttgggaatc	M58589
41597	agctggttccaggcttgaactcctg	U45980	84201	ctaatcttggcatgtgcacattcct	D86037	126805	tccttaaatgttcctgggtctggag	M58589
41598	tgcccatggctggagctgggaccct	U45980	84202	ttggcatgtgcacattcctcagagg	D86037	126806	aatgttcctgggtctggagttgttg	M58589
41599	tggctggagctgggaccctacactt	U45980	84203	tgtgcacattcctcagaggtaccag	D86037	126807	caaggaactccttcaaaggccatgc	M58589
41600	ggaccctacacttctatagtcaagg	U45980	84204	cattcctcagaggtaccaggtattc	D86037	126808	actccttcaaaggccatgctgcgac	M58589
41601	gtgcttagcctcaaggttgcagatg	U45980	84205	ggtattcccagccatgcatctctgt	D86037	126809	tcaaaggccatgctgcgactcctac	M58589
41602	agcctcaaggttgcagatgcaccct	U45980	84206	cccagccatgcatctctgtgggaag	D86037	126810	gccatgctgcgactcctacaaagtg	M58589
41603	gcagatgcaccctctagtactctgg	U45980	84207	catgcatctctgtgggaagatagaa	D86037	126811	aatgcactttcaaaacaatcaccaa	M58589
41604	gcaccctctagtactctgggtgcag	U45980	84208	tcatgctctgcagttacataggtag	D86037	126812	tcaccaaagaagtctccaagtgcaa	M58589
41605	tctagtactctgggtgcagactgta	U45980	84209	ccatttgtcctgttctaattatgaa	D86037	126813	tctccaagtgcaaagctcagcatcc	M58589
41606	actctgggtgcagactgtacactgg	U45980	84210	tgtcatatttcattcaaatgccaat	D86037	126814	agtgcaaagctcagcatcccttatg	M58589
41607	atgattctgggctttgacaccaca	U45980	84211	tctttatcagccaggcaatgactct	D86037	126815	acctactcctatagtcgcacctctg	W41826
41608	ccaaagagctgggcatccaggcttt	U45980	84212	tcagccaggcaatgactctgaactc	D86037	126816	ctactcctatagtcgcacctctgtg	W41826
41609	agctgggcatccaggcttttggtca	U45980	84213	tgactctgaactctgaaatgctata	D86037	126817	caatctgtgcgattgcctgcattcc	W41826
41610	gcatccaggcttttggtcaccatgg	U45980	84214	ggatcaatggccttatctgttacac	D86037	126818	atctgtgcgattgcctgcattccat	W41826
41611	aggcttttggtcaccatggcactac	U45980	84215	atggccttatctgttacacatacac	D86037	126819	ctgtgcgattgcctgcattccatgt	W41826
41612	ggcttttcctgttcagtgagcagga	U45980	84216	cacattttcacagcatagcttggct	D86037	126820	gcgattgcctgcattccatgtgccg	W41826
41613	tcctgttcagtgagcaggaattcag	U45980	84217	ttcacagcatagcttggctttatgc	D86037	126821	gattgcctgcattccatgtgccgac	W41826
41614	tccctgacttaccttgacccatggc	U45980	84218	gcatagcttggctttatgctaatct	D86037	126822	ttgcctgcattccatgtgccgacag	W41826
41615	ctgaaggctccatgcccatggctgg	U45980	84219	ttgacagactttggcttcagcaaca	AA105564	126823	gcctgcattccatgtgccgacagac	W41826
41616	gccagaggaccccttcactattagag	U04204	84220	tttggcttcagcaacaaatttcagc	AA105564	126824	gtccgttcgttcccaatggctatgc	W41826

TABLE 1

SEQ ID NO	sequence	DBAxnID
41617	gattgccgccaagcacgagaaaacc	U04204
41618	tgtttaagcccagcctgcctgacat	U04204
41619	tcctgctataggcaaggctgtgttt	U04204
41620	cccacgctgaaccagggacagactg	U04204
41621	cagactgttgcgagcaaatgcgact	U04204
41622	agcaaatgcgactcggagaagcgaa	U04204
41623	aagcgaacggacatctccttcacta	U04204
41624	atctccttcactaatttgacctgac	U04204
41625	ttcactaatttgacctgaccggatg	U04204
41626	gtttgtcaacaaccaggaactctgg	U04204
41627	caacaaccaggaactctggtaacat	U04204
41628	tctgattcggtttcacatccagagg	U04204
41629	gccatcacgtatacaggagaacatt	U04204
41630	ggccactatccttagcttcaacaga	U04204
41631	tatccttagcttcaacagaaactgg	U04204
41632	ctgagtcagcccacgaggcttcctt	U04204
41633	tcctctttgctgatgcacacttccc	U04204
41634	ttgctgatgcacacttccctcctgg	U04204
41635	gagtcctgtttaagcccagcctgcc	U04204
41636	gcctgaatctctggctgactacatc	D26091
41637	ctacatcaccgcagcatatgtggag	D26091
41638	ctgcatatctcgtggcttcacacca	D26091
41639	tggcttcacaccagcccagttccag	D26091
41640	agcccagttccaggcagctctggat	D26091
41641	gttccaggcagctctggatgaatat	D26091
41642	taatacttctcggacacggatcacc	D26091
41643	ttctcggacacggatcactttgtc	D26091
41644	gacacggatcacctttgtctgatag	D26091
41645	ctttgtctgatagccagtttttaca	D26091
41646	ctgcctacaccagagggcatgctga	D26091
41647	aatctcattctcccatgctgcactt	D26091
41648	caccgcagcatatgtggagatgagg	D26091
41649	ctatacttctgcccggaccctgctg	D26091
41650	ggccattctccgactttccactgct	D26091
41651	tctccgactttccactgctctggct	D26091
41652	acagacagctaggacccagaggcca	D26091
41653	atttgccaccatccgtgaattggtg	D26091
41654	caccatccgtgaattggtgtcacgg	D26091
41655	acagcgctgcatatctcgtggcttc	D26091
41656	cactactgtagttgtggtcctcctt	AA016382
41657	tactgtagttgtggtcctccttcgg	AA016382
41658	tattccttatggctgccgtcatccc	AA016382
41659	tccttatggctgccgtcatcccaat	AA016382
41660	tggctgccgtcatcccaatgggagt	AA016382
41661	ctgccgtcatcccaatgggagtgat	AA016382
41662	tgattggtaacggccggacaccagg	AA016382
41663	gaaacagccctcgactcagaaccct	AA016382
41664	tcgctccatttttgtatcactcctgg	AA016382
41665	ctccatttttgtatcactcctggaga	AA016382
41666	cattttgtatcactcctggagaaac	AA016382
41667	gtatcactcctggagaaacttgcag	AA016382
41668	ccttcggatcgccactgaccactgg	AA016382
41669	tcggatcgccactgaccactgggga	AA016382
41670	gatcgccactgaccactggggagcc	AA016382
41671	cactgaccactggggagccacatgg	AA016382
41672	cagtccgcatcctgcaactggtgat	AA016382
41673	tccgcatcctgcaactggtgatgct	AA016382
41674	gcatcctgcaactggtgatgctatt	AA016382
41675	tgctattccttatggctgccgtcat	AA016382
41676	ctcaggcaacatcacccgctgcttt	D50872
41677	ttatgagccatacagtgtgcccatc	D50872
41678	gctgccctggaccctagcagagttg	D50872
41679	caacttccatcaggctattaatgat	D50872
41680	cctcagcaccaactgtgtcttagat	D50872
41681	gttttacagcatgcgcagtagccgg	D50872
41682	cagcatgcgcagtagccggaagtgc	D50872
41683	gaagtgctccagagccacgagtgac	D50872
41684	ctccagagccacgagtgacacgtgc	D50872

SEQ ID NO	sequence	DBAxnID
84221	tacgatgcccctgcagtagacatat	AA105564
84222	gatgcccctgcagtagacatatgga	AA105564
84223	tggagcctgggcgtgatccttttca	AA105564
84224	ggcgtgatccttttcatgctggtgt	AA105564
84225	ttcatgctggtgtgttggcagccac	AA105564
84226	tgttggcagccacccttccaagaag	AA105564
84227	cccttccaagaagccaacgacagcg	AA105564
84228	ttccaagaagccaacgacagcgaga	AA105564
84229	caagaagccaacgacagcgagacac	AA105564
84230	gagacactgaccatgatcatggact	AA105564
84231	ggcttcagcaacaaatttcagcctg	AA105564
84232	agcaacaaatttcagcctggaaaga	AA105564
84233	ctcaccacgagctgcgggtctcttg	AA105564
84234	agctgcgggtctcttgcatactctg	AA105564
84235	tactctgctccagaaatcctgcttg	AA105564
84236	gctccagaaatcctgcttggcgatg	AA105564
84237	gaaatcctgcttggcgatgagtacg	AA105564
84238	gagtacgatgcccctgcagtagaca	AA105564
84239	gaacggcctcagccagcaagcacga	AA105571
84240	aacggcctcagccagcaagcacgag	AA105571
84241	catcgtcatggaccctctgggtgga	AA105571
84242	cgtcatggaccctctgggtggatca	AA105571
84243	gtcatggaccctctgggtggatcag	AA105571
84244	catggaccctctgggtggatcagac	AA105571
84245	atggaccctctgggtggatcagaca	AA105571
84246	gaccctctgggtggatcagacacgg	AA105571
84247	ctcctcaaacccatgggcaaagttg	AA105571
84248	tcctcaaacccatgggcaaagttgt	AA105571
84249	ctcaaacccatgggcaaagttgtca	AA105571
84250	tcaaacccatgggcaaagttgtcac	AA105571
84251	atcgactaccacacgactgactatg	AA105571
84252	cgactaccacacgactgactatgtg	AA105571
84253	ctaccacacgactgactatgtggac	AA105571
84254	taccacacgactgactatgtggacg	AA105571
84255	ccacacgactgactatgtggacgag	AA105571
84256	cacacgactgactatgtggacgaga	AA105571
84257	tcccccaaaggagtagacatcgtca	AA105571
84258	gacatcgtcatggaccctctgggtg	AA105571
84259	tcaaaacagctccagccgcagccgg	AA105579
84260	acagctccagccgcagccgggcaag	AA105579
84261	aagtttccagacaggtcaacattag	AA105579
84262	agtttccagacaggtcaacattagt	AA105579
84263	gtttccagacaggtcaacattagtt	AA105579
84264	tttccagacaggtcaacattagttg	AA105579
84265	ttccagacaggtcaacattagttgt	AA105579
84266	tccagacaggtcaacattagttgtc	AA105579
84267	tcaacattagttgtctgcctggaaa	AA105579
84268	agctccagccgcagccgggcaaggt	AA105579
84269	tcttctacctggggctatgatccgt	AA105579
84270	cttctacctggggctatgatccgtg	AA105579
84271	ttctacctggggctatgatccgtgg	AA105579
84272	tctacctggggctatgatccgtggg	AA105579
84273	ctacctggggctatgatccgtgggc	AA105579
84274	acaagtttccagacaggtcaacatt	AA105579
84275	caagtttccagacaggtcaacatta	AA105579
84276	gcaacgactggcctacaaggtggag	D86949
84277	gcatctcatcaacgccatgtccata	D86949
84278	atggcagccatgtttcatcacagcc	D86949
84279	gccatgtttcatcacagccggttcc	D86949
84280	cccatcacagtgtgagctcaggaca	D86949
84281	tgagctcaggacacaacgggcaagg	D86949
84282	caggacacaacgggcaaggagaagg	D86949
84283	gtggccctttaagctgagaggcttg	D86949
84284	gatggttctgcctctgtgactgctg	D86949
84285	tctgcctctgtgactgctgctttgc	D86949
84286	actgctgctttgcatgaaaattcat	D86949
84287	acagaaacataaatcctccctgtca	D86949
84288	catcaacgccatgtccatagagagc	D86949

SEQ ID NO	sequence	DBAxnID
126825	ccgttcgttcccaatggctatgctt	W41826
126826	gttcgttcccaatggctatgcttca	W41826
126827	actcctatagtcgcacctctgtgtc	W41826
126828	cgttcccaatggctatgcttcacca	W41826
126829	ctatagtcgcacctctgtgtcagat	W41826
126830	atagtcgcacctctgtgtcagatga	W41826
126831	agtcgcacctctgtgtcagatgact	W41826
126832	tcgcacctctgtgtcagatgacttt	W41826
126833	acgcatccatcaatctgtgcgattg	W41826
126834	atccatcaatctgtgcgattgcctg	W41826
126835	atcaatctgtgcgattgcctgcatt	W41826
126836	acaatcaaagcttgcccgaggaaca	M84607
126837	atcaaagcttgcccgaggaacacaa	M84607
126838	cacgttaactgttgcacttttgaat	M84607
126839	aactgttgcacttttgaatgtccaa	M84607
126840	tgcacttttgaatgtccaaaattta	M84607
126841	gttcccaacatggtggtgtggtaag	M84607
126842	gagagcgacttactccataggaagg	M84607
126843	ggtcttccaatacaagatggcttcc	M84607
126844	cttccaatacaagatggcttccaga	M84607
126845	gatggcttccagataccctgttca	M84607
126846	ggcttccagataccctgttcatgt	M84607
126847	cagataccctgttcatgttttgtt	M84607
126848	gtggtctgccaacctgtacaaaatg	M84607
126849	gtctgccaacctgtacaaaatggtc	M84607
126850	tgccaacctgtacaaaatggtccta	M84607
126851	atgacaagctgtatcactgcctttg	M84607
126852	agctgtatcactgcctttgtttata	M84607
126853	tttaactgtgatattccccacaggc	M84607
126854	tgtgatattccccacaggcacgtta	M84607
126855	gatattccccacaggcacgttaact	M84607
126856	cccaatggaccagctgctggcaaca	AA062397
126857	aatggaccagctgctggcaacaaga	AA062397
126858	tcacacagactgtctgcttagacga	AA062397
126859	cacagactgtctgcttagacgatac	AA062397
126860	ctgtctgcttagacgatacaacggt	AA062397
126861	tctgcttagacgatacaacggtcaa	AA062397
126862	acacagctggccaagagcgctatca	AA062397
126863	ctggccaagagcgctatcacagcct	AA062397
126864	aagagcgctatcacagcctggcccc	AA062397
126865	gctatcacagcctggccccgatgta	AA062397
126866	atcacagcctggccccgatgtacta	AA062397
126867	acagcctggccccgatgtactatcg	AA062397
126868	ggaccagctgctggcaacaagatct	AA062397
126869	tttaagctggtcctcttgggcgagt	AA062397
126870	agtccagcctggtcctccgctttgt	AA062397
126871	ccagcctggtcctccgctttgtcaa	AA062397
126872	gcctggtcctccgctttgtcaaggg	AA062397
126873	tccgctttgtcaaggggcagttcca	AA062397
126874	gagcggctttcctcacacagactgt	AA062397
126875	cggctttcctcacacagactgtctg	AA062397
126876	gatatccccgaagcatgaaagatcg	W41858
126877	atccccgaagcatgaaagatcgacc	W41858
126878	aaattccagctagttcaggactgtc	W41858
126879	caggactgtccatacctgcacataa	W41858
126880	tgtccatacctgcacataactcttg	W41858
126881	ccatacctgcacataactcttggaa	W41858
126882	tacctgcacataactcttggaagag	W41858
126883	gaagacaagatcacccagagatacg	W41858
126884	gacaagatcacccagagatacgaca	W41858
126885	cagagatacgacatcctgagactca	W41858
126886	agatacgacatcctgagactcatcg	W41858
126887	tacgacatcctgagactcatcgcac	W41858
126888	catccaagtctgtggttcatgggtt	W41858
126889	ccaagtctgtggttcatgggttact	W41858
126890	ctgtggttcatgggttactgggatg	W41858
126891	tggttcatgggttactgggatgtcc	W41858
126892	gtgtttactgctgcaagctatgagg	W41858

TABLE 1

SEQ ID NO	sequence	DBAxnID
41685	agccacgagtgacacgtgcaccgag	D50872
41686	gagtgacacgtgcaccgaggtgata	D50872
41687	ccagactcctattgtgtcgctgaaa	D50872
41688	gccatacagtgtgcccatccttgtt	D50872
41689	gcccatccttgttgttcatgtcttc	D50872
41690	ccttgttgttcatgtcttcatcgcc	D50872
41691	cttctactgcaacttggtcatcatc	D50872
41692	ctgcaacttggtcatcatccacacg	D50872
41693	gctgctcacgcagcccatgaggcag	D50872
41694	ggtcttggcggtattcatcatctgt	D50872
41695	tcacgtggtccagctgccctggacc	D50872
41696	atggtcccctgagcacagccgactc	AA016411
41697	ggtcccctgagcacagccgactctt	AA016411
41698	acactcgttcagcaccgctgggtgg	AA016411
41699	gatacgtgcacaagctgcacgccgc	AA016411
41700	gcacaagctgcacgccgcgaacgca	AA016411
41701	acaagctgcacgccgcgaacgcaga	AA016411
41702	caagctgcacgccgcgaacgcagac	AA016411
41703	agctgcacgccgcgaacgcagacga	AA016411
41704	gcacgccgcgaacgcagacgagcac	AA016411
41705	cgccgcgaacgcagacgagcacgag	AA016411
41706	ccgcgaacgcagacgagcacgagac	AA016411
41707	acttcagccgaacgctcaacagaca	AA016411
41708	gcacagccgactcttcgatcaacca	AA016411
41709	tcttcgatcaaccattcggggtaca	AA016411
41710	acaccggttgcgcgatgagtggtca	AA016411
41711	tgagtggtcacactcgttcagcacc	AA016411
41712	agtggtcacactcgttcagcaccgc	AA016411
41713	gtggtcacactcgttcagcaccgct	AA016411
41714	ggtcacactcgttcagcaccgctgg	AA016411
41715	cacactcgttcagcaccgctgggtg	AA016411
41716	tctgcctggatgctgccatgttccc	AA016423
41717	gcctggatgctgccatgttccctcc	AA016423
41718	gagacctcaccagcactgatgcagt	AA016423
41719	acctcaccagcactgatgcagtagg	AA016423
41720	tcaccagcactgatgcagtaggagg	AA016423
41721	catctcaggagatgggctggcaagg	AA016423
41722	gccagagtggctgttgcagactgtg	AA016423
41723	gtggctgttgcagactgtggcatct	AA016423
41724	gactgtggcatctcaggccacagag	AA016423
41725	tgtggcatctcaggccacagagaag	AA016423
41726	catatttcagcagcagagtggtctc	AA016423
41727	atttcagcagcagagtggtctccct	AA016423
41728	atgctgccatgttccctccttgatg	AA016423
41729	ctgccatgttccctccttgatgata	AA016423
41730	ccatgttccctccttgatgataatg	AA016423
41731	tccctccttgatgataatggactga	AA016423
41732	ggactgaacctctgaacttgtggca	AA016423
41733	aacctctgaacttgtggcagggctg	AA016423
41734	ctctgaacttgtggcagggctgaga	AA016423
41735	tgaacttgtggcagggctgagacct	AA016423
41736	gcagcctgtactgcagagtgggcat	M37823
41737	tcggtttccatctgcagatctaccc	M37823
41738	cgatccacagaactgaaaagacagg	M37823
41739	tcctacccaggttcaagcagtccga	M37823
41740	ccaggttcaagcagtccgagcaacc	M37823
41741	tcaagcagtccgagcaaccggaact	M37823
41742	tcaccgtcactgttccagaaaagaa	M37823
41743	tgaaaccaaaggtgcccctgtcgca	M37823
41744	tgcccctgtcgcagcctcgcagaag	M37823
41745	tgtcgcagcctcgcagaagtcccag	M37823
41746	tgaagtttcgctttggatgatgctc	M37823
41747	ttcgctttggatgatgctcatcgtc	M37823
41748	tccatctgcagatctacccggatgg	M37823
41749	tgcagatctacccggatggcaaagt	M37823
41750	ctgtgtctcaggggattgtaggaat	M37823
41751	aactccatgcaagtgccaaatttac	M37823
41752	acagctataatacctatgcgtccgc	M37823
84289	cgccatgtccatagagagctgaaag	D86949
84290	catataagctatcacactggcttct	D86949
84291	agctatcacactggcttctcaaaag	D86949
84292	cacactggcttctcaaaaggaaaga	D86949
84293	ccccagagctggctatcctctgaaa	D86949
84294	agctggctatcctctgaaacctcac	D86949
84295	ctgtcaatggcagccatgtttcatc	D86949
84296	gctgtgctggccacctaaaagataa	AA105582
84297	tgtgctggccacctaaaagataatc	AA105582
84298	acactgccttcaaaagggcatacta	AA105582
84299	actgccttcaaaagggcatactatc	AA105582
84300	aaagggcatactatcccagcatggg	AA105582
84301	agggcatactatcccagcatgggca	AA105582
84302	ggcatactatcccagcatgggcatg	AA105582
84303	catactatcccagcatgggcatgag	AA105582
84304	ctatcccagcatgggcatgagcagc	AA105582
84305	atcccagcatgggcatgagcagcct	AA105582
84306	cccagcatgggcatgagcagcctga	AA105582
84307	tccattatcatggtaagttgcttct	AA105582
84308	tgctggccacctaaaagataatcag	AA105582
84309	ctggccacctaaaagataatcagtg	AA105582
84310	atcagtgaattctacctgaagtact	AA105582
84311	gaattctacctgaagtactgaggga	AA105582
84312	attctacctgaagtactgagggaca	AA105582
84313	tctacctgaagtactgagggacact	AA105582
84314	agggacactgccttcaaaagggcat	AA105582
84315	ggacactgccttcaaaagggcatac	AA105582
84316	ctacacgcccaagtgcctaggggca	AA105584
84317	acacgcccaagtgcctaggggcaag	AA105584
84318	ggtcacaatcctgccaaacggcgcc	AA105584
84319	aatcctgccaaacggcgccattttg	AA105584
84320	tcctgccaaacggcgccattttgca	AA105584
84321	caaacggcgccattttgcagagcca	AA105584
84322	cggcgccattttgcagagccaggac	AA105584
84323	gcgccattttgcagagccaggacat	AA105584
84324	ccaggacatggccttggcttatcag	AA105584
84325	cagcgctgaatgtcagccttatctg	AA105584
84326	tcagccttatctggccacctgagag	AA105584
84327	agccttatctggccacctgagagac	AA105584
84328	tacaccactttcgaggctgaaaggg	AA105584
84329	ccactttcgaggctgaaagggatgc	AA105584
84330	aagggatgcccgaaccattgagaca	AA105584
84331	gatgcccgaaccattgagacagagt	AA105584
84332	aggtcaccatggtcacaatcctgcc	AA105584
84333	caccatggtcacaatcctgccaaac	AA105584
84334	ccatggtcacaatcctgccaaacgg	AA105584
84335	atggtcacaatcctgccaaacggcg	AA105584
84336	catggacgcctacttagtggagcag	D86950
84337	cctccatgctaatgacttcaatgtc	D86950
84338	ctcttgtcggaagcacaagcttcga	D86950
84339	gcacaagcttcgacagaagcctgag	D86950
84340	gcttcgacagaagcctgagcagatc	D86950
84341	cttgcttctgagccatcctcccagt	D86950
84342	tctgagccatcctcccagtcagggg	D86950
84343	tccagggctgagatccagagcggtg	D86950
84344	gttaccaagccaagatgccccatca	D86950
84345	aagccaagatgccccatcacacctg	D86950
84346	ccttcattagtgccttgctttgggc	D86950
84347	ttagtgccttgctttgggccctgca	D86950
84348	tgacttcaatgtcctaagtgcactc	D86950
84349	caatgtcctaagtgcactcagcgag	D86950
84350	cctaagtgcactcagcgagctctac	D86950
84351	tgcactcagcgagctctacttctat	D86950
84352	gctctacttctatgtcaccaagtac	D86950
84353	ggagatcctcacctcgctggaccga	D86950
84354	ctcgctggaccgagatgcctcttgt	D86950
84355	ggaccgagatgcctcttgtcggaag	D86950
84356	ttggctcaatcattaacccaaccat	AA105618
126893	gcgacacggtacatctgtggggaca	W41858
126894	tacatctgtggggacactctgacta	W41858
126895	gacactctgactaagatagcaagcc	W41858
126896	cgaccctttgaccatgccactcagt	D26107
126897	tttgaccatgccactcagtatctca	D26107
126898	cagcacccaggttcctgtctccaga	D26107
126899	tcctgtctccagagcatgaattcca	D26107
126900	ctccagagcatgaattccaggtcca	D26107
126901	aattccaggtccaatgctagagggg	D26107
126902	tttgggagactctgctcttatcctg	D26107
126903	tgctcttatcctgaggactactgaa	D26107
126904	cctacccagtgagatgagaactaca	D26107
126905	attttgtaagcatttcctacataat	D26107
126906	taagcatttcctacataatatgagt	D26107
126907	tttcctacataatatgagtttctac	D26107
126908	ccttgcacttgtcctcaggcaatag	D26107
126909	acttgtcctcaggcaatagaatcca	D26107
126910	atccctgttgctcagacctgagccc	D26107
126911	cagacctgagccctccaggcagcag	D26107
126912	tgagccctccaggcagcagaagctc	D26107
126913	ccacctactcctgcaggcaggaatc	D26107
126914	actcctgcaggcaggaatctcaggt	D26107
126915	aggaatctcaggtttctcacaccct	D26107
126916	gttatctggtgttcaagcagccctg	W41963
126917	tggtgttcaagcagccctggccagg	W41963
126918	ttgatgacatgctcaatgtgtctgg	W41963
126919	acatgctcaatgtgtctggacatct	W41963
126920	atgtgtctggacatctcctgagtac	W41963
126921	tgtctggacatctcctgagtacagc	W41963
126922	gacatctcctgagtacagcagaggt	W41963
126923	atctcctgagtacagcagaggtgga	W41963
126924	tcctgagtacagcagaggtggaatc	W41963
126925	tggaatcggcacttgtggaacacga	W41963
126926	aatcggcacttgtggaacacgaggc	W41963
126927	aacacgaggctgtcgcagaggcagc	W41963
126928	ggatcatgcacgcagtctatgggaa	W41963
126929	tgggccacctcatcctgtgaagggc	W41963
126930	tcatgcacgcagtctatgggaacca	W41963
126931	tgcacgcagtctatgggaaccacac	W41963
126932	tctatgggaaccacacacggtttga	W41963
126933	agaagttccctggctactatgtgac	W41963
126934	tccctggctactatgtgaccggaga	W41963
126935	ctggctactatgtgaccggagatgg	W41963
126936	gctattactggatcacgggcaggat	W41963
126937	aggctctgcaggtctctgctttggg	X64070
126938	ctgtctctcctgctggctcagggaa	X64070
126939	ttcctacttctcaataccttgcaa	X64070
126940	ctacttctcaataccttgcaatgg	X64070
126941	ctcaataccttgcaatggcagtgg	X64070
126942	acccttgcaatggcagtggaaattt	X64070
126943	tgcatcctaacccgtgttttcaatg	X64070
126944	gctttgacgtttgtgctaaggagac	X64070
126945	ttgacgtttgtgctaaggagacaca	X64070
126946	gaatagtgcccaaggtacagtcctg	X64070
126947	tagtgcccaaggtacagtcctgacc	X64070
126948	tgcccaaggtacagtcctgacctca	X64070
126949	agtgtctgacccacttatctatggg	X64070
126950	gtctgacccacttatctatgggaaa	X64070
126951	tgacccacttatctatgggaaaagg	X64070
126952	tctgcccagatgcaagctgatctcg	X64070
126953	taacaacacagttaatctgaacaca	X64070
126954	agttaatctgaacacaggagatgtg	X64070
126955	taatctgaacacaggagatgtggga	X64070
126956	atgaagtcattcctacttctcaata	X64070
126957	agcacctgcacaaacatgtatatac	M36411
126958	aacatgtatatacccacgaatagac	M36411
126959	tagggtgaccactctgaagtggcac	M36411
126960	gaccactctgaagtggcacatttca	M36411

TABLE 1

SEQ ID NO	sequence	DBAxnID
41753	ataatacctatgcgtccgcgatcca	M37823
41754	cctatgcgtccgcgatccacagaac	M37823
41755	cgtccgcgatccacagaactgaaaa	M37823
41756	ctccttagttttctcatagcactaa	V00727
41757	agttttctcatagcactaactaatc	V00727
41758	atgtactgtagtccttcagcgtcaa	V00727
41759	tgtagtccttcagcgtcaatgttca	V00727
41760	ccttcagcgtcaatgttcattgtca	V00727
41761	ctgatcatgcattgtcgaggtggtc	V00727
41762	atgcattgtcgaggtggtctgaatg	V00727
41763	taccctgaggtctttcgacatgtgg	V00727
41764	gaggtctttcgacatgtggaaagtg	V00727
41765	attgtttgcttattgttccaggaca	V00727
41766	tgcttattgttccaggacattgtca	V00727
41767	ttgttccaggacattgtcaataaaa	V00727
41768	ctcatagcactaactaatctgttgg	V00727
41769	gcactaactaatctgttgggttcat	V00727
41770	actaatctgttgggttcattattgg	V00727
41771	attgtatctagtgcagctgatttta	V00727
41772	acctactgtgttcctggcaatagcg	V00727
41773	tgtgttcctggcaatagcgtgttcc	V00727
41774	atagctatatccatgtactgtagtc	V00727
41775	atatccatgtactgtagtccttcag	V00727
41776	taccagtgtatgggctgttgcttct	M22992
41777	acaatgctggttccaaagaatatta	M22992
41778	ctgacggctgcggagccgagccatt	M22992
41779	agccattcaatggcgctgtgtgtca	M22992
41780	gacttctgacgcgcttcagttacac	M22992
41781	gcttcagttacacactgcctcttta	M22992
41782	acatcccttatacttcagtacaatc	M22992
41783	tacaatctgcagtctcttctcgtta	M22992
41784	ctgcagtctcttctcgttagggaaa	M22992
41785	tctcttctcgttagggaaatatgta	M22992
41786	gccttttaaatcatcaatcccgcag	M22992
41787	taaatcatcaatcccgcaggcactg	M22992
41788	gaggccacatgctgtgtggccaaag	M22992
41789	acatgctgtgtggccaaagcattta	M22992
41790	gcatttactaaggccacagtaatgg	M22992
41791	aatcatacggagtgccactgtagca	M22992
41792	tgccactgtagcacttgctactacc	M22992
41793	tgtagcacttgctactaccacaagt	M22992
41794	acttgctactaccacaagtcgtagc	M22992
41795	tactaccacaagtcgtagcttctga	M22992
41796	cgccctgtggagctcgtctgagaaa	AA016485
41797	cctgtggagctcgtctgagaaaaat	AA016485
41798	catgtactcaccggagagcctcagt	AA016485
41799	gtactcaccggagagcctcagtctg	AA016485
41800	ctcaccggagagcctcagtctggct	AA016485
41801	gaacactagcaacgtgcgggacgac	AA016485
41802	cactagcaacgtgcgggacgacgac	AA016485
41803	tagcaacgtgcgggacgacgacatc	AA016485
41804	caacgtgcgggacgacgacatcttc	AA016485
41805	ggacgacgacatcttcattgtcacc	AA016485
41806	cgacgacatcttcattgtcacctac	AA016485
41807	aggtaccaactggatgattgagatc	AA016485
41808	tgtttccgaaatgagctggaatttt	AA016485
41809	aggtatccctttttcctgtcggcatg	AA016485
41810	tatccctttttcctgtcggcatgtac	AA016485
41811	ccctttttcctgtcggcatgtactca	AA016485
41812	ttttcctgtcggcatgtactcaccg	AA016485
41813	tcctgtcggcatgtactcaccggag	AA016485
41814	tgtcggcatgtactcaccggagagc	AA016485
41815	cggcatgtactcaccggagagcctc	AA016485
41816	ttgggcccatctggcaacctcttgg	AA016500
41817	tgggcccatctggcaacctcttggc	AA016500
41818	gcaacctcttggctacctgcagcag	AA016500
41819	caacctcttggctacctgcagcaga	AA016500
41820	aacctcttggctacctgcagcagag	AA016500

SEQ ID NO	sequence	DBAxnID
84357	ggctcaatcattaacccaaccatta	AA105618
84358	taatctcaaaacgtcttcaatcctt	AA105618
84359	aacgtcttcaatccttccaacaatg	AA105618
84360	gtcttcaatccttccaacaatggat	AA105618
84361	cttcaatccttccaacaatggatag	AA105618
84362	ttcaatccttccaacaatggatagg	AA105618
84363	tcaatccttccaacaatggataggt	AA105618
84364	caatccttccaacaatggataggta	AA105618
84365	ctattatccaaccaattatggttat	AA105618
84366	tattatccaaccaattatggttatc	AA105618
84367	tatccaaccaattatggttatccca	AA105618
84368	gctcaatcattaacccaaccattat	AA105618
84369	ctcaatcattaacccaaccattata	AA105618
84370	tcaatcattaacccaaccattatag	AA105618
84371	atcattaacccaaccattataggat	AA105618
84372	attccctcaatcctaatcccattct	AA105618
84373	cggctaatctcaaaacgtcttcaat	AA105618
84374	ggctaatctcaaaacgtcttcaatc	AA105618
84375	ctaatctcaaaacgtcttcaatcct	AA105618
84376	tcatcgtattacacccggagaggcc	AA105621
84377	gaatcccgaacctgttgacccatga	AA105621
84378	gaacgacaccattcagattgatttg	AA105621
84379	acgacaccattcagattgatttgaa	AA105621
84380	gacaccattcagattgatttgaaga	AA105621
84381	attaactgacttcatcaagtttgac	AA105621
84382	acttcatcaagtttgacactgggaa	AA105621
84383	ttcatcaagtttgacactgggaacc	AA105621
84384	gtttgacactgggaacctgtgtatg	AA105621
84385	ttgacactgggaacctgtgtatggt	AA105621
84386	cactgggaacctgtgtatggtgact	AA105621
84387	ctgggaacctgtgtatggtgactgg	AA105621
84388	atcccgaacctgttgacccatgatg	AA105621
84389	attggtgtactcaccaacagagaga	AA105621
84390	cccgaacctgttgacccatgatgct	AA105621
84391	atgctcgtacaattcggtaccctga	AA105621
84392	tgatcccctcatcaaggtgaacgac	AA105621
84393	atcccctcatcaaggtgaacgacac	AA105621
84394	cccctcatcaaggtgaacgacacca	AA105621
84395	aggtgaacgacaccattcagattga	AA105621
84396	gtgaacgacaccattcagattgatt	AA105621
84397	cccagggttctgcaagcagaagagc	AA153354
84398	cagaagagctacaaccctcgtacgg	AA153354
84399	gcaaggcttcagcaactcagcgggc	AA153354
84400	caaggcttcagcaactcagcgggct	AA153354
84401	aaggcttcagcaactcagcgggctg	AA153354
84402	aggcttcagcaactcagcgggctgg	AA153354
84403	gcttcagcaactcagcgggctggcc	AA153354
84404	cttcagcaactcagcgggctggccg	AA153354
84405	ttcagcaactcagcgggctggccgt	AA153354
84406	tcagcaactcagcgggctggccgtg	AA153354
84407	cagcaactcagcgggctggccgtgc	AA153354
84408	agcaactcagcgggctggccgtgca	AA153354
84409	gagctacaaccctcgtacgggaatg	AA153354
84410	cccctgcagcaaggcttcagcaact	AA153354
84411	ccctgcagcaaggcttcagcaactc	AA153354
84412	cctgcagcaaggcttcagcaactca	AA153354
84413	ctgcagcaaggcttcagcaactcag	AA153354
84414	tgcagcaaggcttcagcaactcagc	AA153354
84415	cagcaaggcttcagcaactcagcgg	AA153354
84416	agcaaggcttcagcaactcagcggg	AA153354
84417	ctgcttcatttcgaggccaactgag	Z70023
84418	catttcgaggccaactgagaaaacg	Z70023
84419	acttcaaggtcaagtgtaggtgagc	Z70023
84420	cccttctgagcatgtaccctctttg	Z70023
84421	tgagcatgtaccctctttgtagaca	Z70023
84422	tgtaccctctttgtagacaacattg	Z70023
84423	aacattgatctgacaactcctcctc	Z70023
84424	agctgttcatacacaatataagtca	Z70023

SEQ ID NO	sequence	DBAxnID
126961	cactctgaagtggcacatttcactt	M36411
126962	gcacatttcactttaaccactaaga	M36411
126963	ataatattgctgtcactctggccct	M36411
126964	atattgctgtcactctggcccttag	M36411
126965	ttgctgtcactctggcccttagctg	M36411
126966	ctgtcactctggcccttagctgatg	M36411
126967	ctctggcccttagctgatggggaca	M36411
126968	tggcccttagctgatggggacacac	M36411
126969	atgtatatacccacgaatagacacg	M36411
126970	atacccacgaatagacacgcatttg	M36411
126971	cccacgaatagacacgcatttgtaa	M36411
126972	aatagacacgcatttgtaattaagc	M36411
126973	agtgtgtcagcttccatgctatggg	M36411
126974	gtgtcagcttccatgctatggggtt	M36411
126975	tcagcttccatgctatggggttgct	M36411
126976	gcttccatgctatggggttgctgat	M36411
126977	gctcagcgccatgaagatggagact	L09192
126978	catgactctggaaggcgacgacctc	L09192
126979	ccatgggacagcacacacactacct	L09192
126980	gacagcacacacactacctgcaatg	L09192
126981	acacacactacctgcaatggcctgc	L09192
126982	tgcaatggcctgcccattcccttca	L09192
126983	cccattcccttcagctatttgtcct	L09192
126984	cacatattcatctcttgccaaataa	L09192
126985	ttcatctcttgccaaataagggcct	L09192
126986	caaataagggcctgctcctcgtggg	L09192
126987	tgctcctcgtgggagaccacaggtg	L09192
126988	attcacaggtcctgggaaatttgct	L09192
126989	aggcgacgacctcatcctagagatt	L09192
126990	ctccacactaggtcatgtacagtct	L09192
126991	atcttactccagcctggcagcctgg	L09192
126992	ccaagcctctcaacagaagctgtgc	L09192
126993	ctctcaacagaagctgtgcagccag	L09192
126994	acagaagctgtgcagccagggcagg	L09192
126995	gcccaggccagccagtacctgagag	L09192
126996	gccagccagtacctgagagtaggaa	L09192
126997	cctgtcccatgggacagcacacaca	L09192
126998	gtttagtccagccaggcacgtggct	W42014
126999	ttagtccagccaggcacgtggctgg	W42014
127000	aaatcaccattacggtcaggatggg	W42014
127001	aaccgcctctctgtgcgatccatct	W42014
127002	ctctgtgcgatccatctggcgatgt	W42014
127003	tctgtgcgatccatctggcgatgta	W42014
127004	gtgcgatccatctggcgatgtaatg	W42014
127005	gcgatccatctggcgatgtaatgat	W42014
127006	tccatctggcgatgtaatgatgcag	W42014
127007	atgatatcagccaaaaagcaggtca	W42014
127008	tgatatcagccaaaaagcaggtcac	W42014
127009	gtcaaaccacgctggtagacgtaca	W42014
127010	agtgggtccccgggagtcatgatct	W42014
127011	gtccccgggagtcatgatctgaaga	W42014
127012	agaatctgtgtaccacgaattggcc	W42014
127013	aatctgtgtaccacgaattggccca	W42014
127014	ctgtgtaccacgaattggcccaaca	W42014
127015	tgtgtaccacgaattggcccaacag	W42014
127016	tgtaccacgaattggcccaacagaa	W42014
127017	caccaaaaatcaccattacggtcag	W42014
127018	caaacagttctttgtggctgtggaa	AA118162
127019	tgatactctatgtgatctctatgac	AA118162
127020	catcttctgcaacaccaagcggaag	AA118162
127021	tcttctgcaacaccaagcggaaggt	AA118162
127022	ttctgcaacaccaagcggaaggttg	AA118162
127023	gaagccaatttcactgtcgtccatg	AA118162
127024	agccaatttcactgtcgtccatgca	AA118162
127025	ccaatttcactgtcgtccatgcatg	AA118162
127026	aatttcactgtcgtccatgcatgga	AA118162
127027	tttcactgtcgtccatgcatggaga	AA118162
127028	ttccggtcaggtgccagccgggtgc	AA118162

TABLE 1

SEQ ID NO	sequence	DBAxnID
41821	tcttggctacctgcagcagagataa	AA016500
41822	cttggctacctgcagcagagataag	AA016500
41823	ttggctacctgcagcagagataaga	AA016500
41824	tggctacctgcagcagagataagag	AA016500
41825	ggctacctgcagcagagataagagc	AA016500
41826	gctacctgcagcagagataagagcg	AA016500
41827	ctacctgcagcagagataagagcgt	AA016500
41828	gggcccatctggcaacctcttggct	AA016500
41829	ggcccatctggcaacctcttggcta	AA016500
41830	ccatctggcaacctcttggctacct	AA016500
41831	catctggcaacctcttggctacctg	AA016500
41832	atctggcaacctcttggctacctgc	AA016500
41833	tctggcaacctcttggctacctgca	AA016500
41834	ctggcaacctcttggctacctgcag	AA016500
41835	ggcaacctcttggctacctgcagca	AA016500
41836	ctgtcttcaatgcattccatggcat	U58882
41837	tcttcaatgcattccatggcatcac	U58882
41838	tgttctgcccctgtcatgggctcct	U58882
41839	gtcatgggctccttcctctggcagg	U58882
41840	ccttggaccaatcaactgattgatt	U58882
41841	tggaccaatcaactgattgattttt	U58882
41842	ttttctctctggatggaacaggctg	U58882
41843	ctaggagacccactaaggagatcag	U58882
41844	gacccactaaggagatcagtttaga	U58882
41845	ttggttagctctcagcttcacttcc	U58882
41846	cagcttcacttcctgccttaggctc	U58882
41847	cacttcctgccttaggctcctcaga	U58882
41848	atgcattccatggcatcacatctgt	U58882
41849	tccatggcatcacatctgtcctggg	U58882
41850	ccacccttcagtgtctctgtctttt	U58882
41851	agtgtctctgtctttaagatcttc	U58882
41852	gtctctgtctttaagatcttcaac	U58882
41853	taagatcttcaactgcttctttatc	U58882
41854	tccagcttattttaccatcccaagc	U58882
41855	aagccttgttctgcccctgtcatgg	U58882
41856	cagacgacttcgatgatggagaaca	AA016507
41857	agcagaaatctgtcatctcctggct	AA016507
41858	aagtgctgcaccacacgctggccaa	AA016507
41859	acacgctggccaacatagatgggaa	AA016507
41860	cctaccgcaccatgatgagtcagat	AA016507
41861	accgcaccatgatgagtcagatctt	AA016507
41862	tgagtcagatcttctgccagcacat	AA016507
41863	ccgctatagactacacctacgacag	AA016507
41864	ctatagactacacctacgacagtga	AA016507
41865	tagactacacctacgacagtgacat	AA016507
41866	acacctacgacagtgacatcctgaa	AA016507
41867	acgacagtgacatcctgaagggcaa	AA016507
41868	aatctgtcatctcctggctgttgaa	AA016507
41869	tcatctcctggctgttgaaccatga	AA016507
41870	tctcctggctgttgaaccatgatcc	AA016507
41871	tgttgaaccatgatccagctaaacg	AA016507
41872	tgaaccatgatccagctaaacggcc	AA016507
41873	atccagctaaacggcccacggctat	AA016507
41874	cagctaaacggcccacggctatgga	AA016507
41875	aggagtccgagctgcatgaagtgct	AA016507
41876	caccctgcagaggttttccaagaat	AA016397
41877	ggttttccaagaatccctcggcatg	AA016397
41878	cttgttcacttttgccatcgcgtca	AA016397
41879	ttgttcacttttgccatcgcgtcaa	AA016397
41880	tgttcacttttgccatcgcgtcaat	AA016397
41881	gttcacttttgccatcgcgtcaatc	AA016397
41882	ttcacttttgccatcgcgtcaatct	AA016397
41883	tcacttttgccatcgcgtcaatctc	AA016397
41884	tttgccatcgcgtcaatctctgctt	AA016397
41885	ttgccatcgcgtcaatctctgctta	AA016397
41886	caagaatccctcggcatggcaagac	AA016397
41887	aatccctcggcatggcaagacaagg	AA016397
41888	atccctcggcatggcaagacaaggc	AA016397

SEQ ID NO	sequence	DBAxnID
84425	tcatacacaatataagtcaaaattg	Z70023
84426	ccaagccctcgtgacaactgggcct	Z70023
84427	gacaactgggccttggagtcacctg	Z70023
84428	tgggccttggagtcacctggacaag	Z70023
84429	ttttatgatttccgcatccgtgatt	Z70023
84430	tggagtcacctggacaagtcctatg	Z70023
84431	gatttccgcatccgtgatttgcatg	Z70023
84432	ttgcatgctgctcaatgtggccgag	Z70023
84433	gctgctcaatgtggccgagttgtgt	Z70023
84434	caatgtggccgagttgtgttacctg	Z70023
84435	gttgtgttacctgctgcttaaattg	Z70023
84436	ttacctgctgcttaaattgtgcttt	Z70023
84437	ttaagcacttcaaggtcaagtgtag	Z70023
84438	cgaactacatcgagaccctgagagt	Z54179
84439	acatcgagaccctgagagtgcagat	Z54179
84440	ctcgctgaccactgtgtccttgtca	Z54179
84441	gaccactgtgtccttgtcatggaca	Z54179
84442	cttgtcatggacaccagtgaccatg	Z54179
84443	atggacaccagtgaccatgcacagt	Z54179
84444	accagtgaccatgcacagttgtgtt	Z54179
84445	ttgtgttccttgcattctaagtcag	Z54179
84446	tccttgcattctaagtcagtggagg	Z54179
84447	agagacgtcctacaaggcagattca	Z54179
84448	gtcctacaaggcagattcagaccaa	Z54179
84449	agattcagaccaatatttcttcgta	Z54179
84450	agaccctgagagtgcagatccatgc	Z54179
84451	tccatgcaaactgccgtatccgaag	Z54179
84452	acttctcagacagactctactcaga	Z54179
84453	cagacagactctactcagaagatga	Z54179
84454	gactctactcagaagatgagctgcc	Z54179
84455	agctgccagcagagttcaaactcta	Z54179
84456	aactctatctaccagttcagaacaa	Z54179
84457	actgtgctgtggctcgctgaccact	Z54179
84458	agcccctctgatggccactcagaga	U37485
84459	tctgatggccactcagagaatacca	U37485
84460	gctcacagcctttagcgctttgttg	U37485
84461	cacagcctttagcgctttgttgctt	U37485
84462	ttaatctgaaggttctggtaacctg	U37485
84463	tttgtacttttctgtgactcacctg	U37485
84464	cttttctgtgactcacctgcccttc	U37485
84465	ttctgtgactcacctgcccttcctt	U37485
84466	gcctcgtcccactatgcacagattg	U37485
84467	tcgtcccactatgcacagattgaaa	U37485
84468	tcccactatgcacagattgaaactt	U37485
84469	cctacaaacctgttagtgtgatctg	U37485
84470	ggccactcagagaataccataataa	U37485
84471	acaatgttctggttgtgcatgaaat	U37485
84472	atgttctggttgtgcatgaaattgg	U37485
84473	gttgttccttcatatgaacctgtaa	U37485
84474	gttccttcatatgaacctgtaaaat	U37485
84475	ccttcatatgaacctgtaaaatgct	U37485
84476	ggagttcacgctcacagcctttagc	U37485
84477	cacgctcacagcctttagcgctttg	U37485
84478	actgcccctacagacctggggtgct	U55057
84479	cctacagacctggggtgctttgctc	U55057
84480	cctgtgacaatccacaaggctgaat	U55057
84481	acaatccacaaggctgaatcacagc	U55057
84482	atccacaaggctgaatcacagcccc	U55057
84483	gaatcacagccccctggggttgaggt	U55057
84484	ctgtggctcttggtgaggctgccac	U55057
84485	ctcttggtgaggctgccactggatc	U55057
84486	cagctcctagagtacagaggaagaa	U55057
84487	caatttccccatctgtaaactgtag	U55057
84488	gatatgactactgacctacctcaca	U55057
84489	atgactactgacctacctcacaggg	U55057
84490	gacctggggtgctttgctcgctttc	U55057
84491	gcttctgagcttttcctgcaacagg	U55057
84492	gatatacttcagctccttcttcccc	U55057

SEQ ID NO	sequence	DBAxnID
127029	tcaggtgccagccgggtgctcatct	AA118162
127030	actctatgtgatctctatgacacgc	AA118162
127031	tgtgatctctatgacacgctgacca	AA118162
127032	tgatctctatgacacgctgaccatc	AA118162
127033	atcacccaggccgtcatcttctgca	AA118162
127034	caggccgtcatcttctgcaacacca	AA118162
127035	ggccgtcatcttctgcaacaccaag	AA118162
127036	ccgtcatcttctgcaacaccaagcg	AA118162
127037	gtcatcttctgcaacaccaagcgga	AA118162
127038	tttgcactccacctgaaccagcctg	U66103
127039	ctgaaccagcctgggcctgatgcta	U66103
127040	tttgtgaaccacgtgccaggccact	U66103
127041	aaccacgtgccaggccactgcgagt	U66103
127042	ggccactgcgagtctgggttgtcta	U66103
127043	ttgtctattgcttgccaagaagaac	U66103
127044	tcgggctcaactatgcccaccaggc	U66103
127045	ttttgctctgggaagctctgggcaa	U66103
127046	tagcccagatgccagccaaggtccg	U66103
127047	agatgccagccaaggtccgctgagc	U66103
127048	cagccaaggtccgctgagcctgcag	U66103
127049	ttccactatcggaggtgcttgttta	U66103
127050	cagcctgggcctgatgctacacaca	U66103
127051	gatgctacacacagtgctcccagtc	U66103
127052	acacacagtgctcccagtcgatgtt	U66103
127053	tgccttgagtccaagacatacaggg	U66103
127054	tgttagcttatccttctgaggaccc	U66103
127055	tacttcatgctttagcaatggctgt	U66103
127056	tagcctgctaccgacactcaagggc	U66103
127057	gctaccgacactcaagggcagctcc	U66103
127058	ttaggagccgctctgcttttgaaca	M64226
127059	gccgctctgcttttgaacaacagca	M64226
127060	gctgctctcgaagggtcaatcgcag	M64226
127061	actctactgcctctgtcagccgtgg	M64226
127062	agctagacacactagcaggtcttcg	M64226
127063	acacactagcaggtcttcggaggag	M64226
127064	agccccacgacagccttgacctgaa	M64226
127065	acgacagccttgacctgaactgtga	M64226
127066	actgtgacagccgggacttcgtggc	M64226
127067	ccaacacgccagatgaaagtcaacc	M64226
127068	ctctcaggaactccagcttgggtac	M64226
127069	tccctgagactgtcaagatctcttc	M64226
127070	aacagcatcaccatctgctgcattg	M64226
127071	gactgtcaagatctcttccctgtga	M64226
127072	agaagactacgtgtcacgagttcac	M64226
127073	ctacgtgtcacgagttcacagacga	M64226
127074	ccagccgcagtacctcagtatcatc	M64226
127075	cctcagtatcatcccaaccaatggg	M64226
127076	tatcatcccaaccaatggggcctgg	M64226
127077	ggagcctgttctcatcctgctgctc	M64226
127078	tgttctcatcctgctgctctcgaag	M64226
127079	cacacaagctataccagcataacta	W42141
127080	acaagctataccagcataactattg	W42141
127081	ttccacaataacagcaggaaatata	W42141
127082	aggatgaccaagctggctgctcgtc	W42141
127083	atgaccaagctggctgctcgtcctt	W42141
127084	accaagctggctgctcgtccttcat	W42141
127085	aagctggctgctcgtccttcattgg	W42141
127086	cgtccttcattggcgttacttttgca	W42141
127087	ccttcattggcgttacttttgcaaat	W42141
127088	tcattggcgttacttttgcaaattgc	W42141
127089	aaattgcagatcacttaggtcggtt	W42141
127090	ttgcagatcacttaggtcggttcct	W42141
127091	agctataccagcataactattgaga	W42141
127092	cagatcacttaggtcggttcctgtt	W42141
127093	gagaatatcagcaccaggaacatgt	W42141
127094	aatatcagcaccaggaacatgttcc	W42141
127095	atcagcaccaggaacatgttccaca	W42141
127096	agcaccaggaacatgttccacaata	W42141

TABLE 1

SEQ ID NO	sequence	DBAxnID
41889	tccctcggcatggcaagacaaggct	AA016397
41890	ccctcggcatggcaagacaaggctg	AA016397
41891	cctcggcatggcaagacaaggctgt	AA016397
41892	tccttgttcacttttgccatcgcgt	AA016397
41893	ccttgttcacttttgccatcgcgtc	AA016397
41894	catacagcgaaggtgcccacttcag	AA030885
41895	aaggtgcccacttcagtgactccca	AA030885
41896	gcaccttgagtcaggctggcttcct	AA030885
41897	tcctgccaggtgagctgagcctcag	AA030885
41898	tgagcctcagcagtcccgggccact	AA030885
41899	gcatcaagagcagctcccagtatta	AA030885
41900	agagcagctcccagtattacccctc	AA030885
41901	gcagctcccagtattacccctcatt	AA030885
41902	ccagcaaccctcgtcggagagctgc	AA030885
41903	accctcgtcggagagctgcagatgg	AA030885
41904	gagctgcagatggtggcctggatac	AA030885
41905	atggtggcctggatactcagccgaa	AA030885
41906	acttcagtgactcccacagcagcct	AA030885
41907	tgccgccttccacgttcctaggagc	AA030885
41908	cgccttccacgttcctaggagctgg	AA030885
41909	cttccacgttcctaggagctgggct	AA030885
41910	atgcctatgccacctttgggagaga	AA030885
41911	atgccacctttgggagagacaccag	AA030885
41912	gtgttggcaccttgagtcaggctgg	AA030885
41913	ttggcaccttgagtcaggctggctt	AA030885
41914	ggagctactcaaggactttggagtg	U44940
41915	ctactcaaggactttggagtgataa	U44940
41916	gttcccatgatgttgcctacactgc	U44940
41917	tcccatgatgttgcctacactgcta	U44940
41918	gatgttgcctacactgctagactac	U44940
41919	tgttgcctacactgctagactacag	U44940
41920	ttgcctacactgctagactacagta	U44940
41921	gcctacactgctagactacagtatt	U44940
41922	actgctagactacagtattgctttg	U44940
41923	ctagactacagtattgctttgtatc	U44940
41924	cagtattgctttgtatcatgaggcc	U44940
41925	gtattgctttgtatcatgaggccaa	U44940
41926	ttttccacttgagaactactttatg	U44940
41927	ttaaaaatgccttcttggtatcagt	U44940
41928	gccttcttggtatcagttagaaatt	U44940
41929	tgtttacatgcaagtgcattttata	U44940
41930	atgttggctggtgcaaaaggcctgg	U44940
41931	tttttctggttcccatgatgttgcc	U44940
41932	tttctggttcccatgatgttgccta	U44940
41933	tggttcccatgatgttgcctacact	U44940
41934	gtggagacgccatacactcttggac	AA016574
41935	tggagacgccatacactcttggact	AA016574
41936	gacttccagatactgcaggcaatag	AA016574
41937	cttccagatactgcaggcaatagcg	AA016574
41938	ttccagatactgcaggcaatagcga	AA016574
41939	tccagatactgcaggcaatagcgat	AA016574
41940	agatactgcaggcaatagcgattat	AA016574
41941	gatactgcaggcaatagcgattatg	AA016574
41942	atgtcattctagtatgcatctcagt	AA016574
41943	tgtcattctagtatgcatctcagtg	AA016574
41944	cattctagtatgcatctcagtggac	AA016574
41945	attctagtatgcatctcagtggact	AA016574
41946	ggagacgccatacactcttggactt	AA016574
41947	agacgccatacactcttggacttcc	AA016574
41948	gacgccatacactcttggacttcca	AA016574
41949	acgccatacactcttggacttccag	AA016574
41950	tcttggacttccagatactgcaggc	AA016574
41951	cttggacttccagatactgcaggca	AA016574
41952	tggacttccagatactgcaggcaat	AA016574
41953	ggacttccagatactgcaggcaata	AA016574
41954	gctgctactgctgagtatgtacaga	D42083
41955	aaattccccgaggatggcagtgagc	D42083
41956	cctgtggcctatatcatcgagcaag	D42083

SEQ ID NO	sequence	DBAxnID
84493	ctggcctttgggtctccatggttca	U55057
84494	tctccatggttcagtcctgctcagc	U55057
84495	ccatggttcagtcctgctcagcttg	U55057
84496	tggttcagtcctgctcagcttgggc	U55057
84497	cctgctcagcttgggcctgtgacaa	U55057
84498	tccttctggaatgactcctttgcca	AA139602
84499	atgctttcactgacctatgagccac	AA139602
84500	cacagcaatggctctgttgcccatt	AA139602
84501	aatggctctgttgcccatttcaatg	AA139602
84502	tctgttgcccatttcaatgtttccc	AA139602
84503	gtttcccaagtcacaggacctagca	AA139602
84504	cctagcatctattctttccactgtg	AA139602
84505	atctattctttccactgtgagtacg	AA139602
84506	tctttccactgtgagtacgtcagca	AA139602
84507	gagtacgtcagcagtgtgagcaaga	AA139602
84508	aaaggcaatctccttgtgaccaacg	AA139602
84509	aatctccttgtgaccaacgtgccct	AA139602
84510	tcactgacctatgagccactctttg	AA139602
84511	acctatgagccactctttggtgcaa	AA139602
84512	acattcaagttcattctggctagtc	AA139602
84513	aagttcattctggctagtcgcttct	AA139602
84514	tatccagtgtctgcccgatattggt	AA139602
84515	gtgtctgcccgatattggtttgcca	AA139602
84516	tattggtttgccatggaacgacttg	AA139602
84517	tttgccatggaacgacttgaaatcc	AA139602
84518	tcagcgtgcaggaggctgtggcact	AA109909
84519	gacacacacctgcaggcatgcagac	AA109909
84520	atgctttccactattatgacagcga	AA109909
84521	tccactattatgacagcgatggccc	AA109909
84522	acagcgatggccctgtcctttatcc	AA109909
84523	gcgatggccctgtcctttatccacg	AA109909
84524	atggccctgtcctttatccacgcgc	AA109909
84525	tttatccacgcgctctgtgcctctt	AA109909
84526	ctctgtgcctctttgagatgcccac	AA109909
84527	gcctctttgagatgcccacaggggt	AA109909
84528	ttgagatgcccacaggggtacccct	AA109909
84529	ttaggcgccactttgactcaaactt	AA109909
84530	acacacctgcaggcatgcagactaa	AA109909
84531	ctcacgagctggcccctggtattga	AA109909
84532	tggcccctggtattgactgtccaga	AA109909
84533	ctggtattgactgtccagagaccgc	AA109909
84534	ttgactgtccagagaccgctacttt	AA109909
84535	actgtccagagaccgctactttcct	AA109909
84536	ccgctactttcctggatgctttcca	AA109909
84537	tcctggatgctttccactattatga	AA109909
84538	gagaatcagccagacactgatgaca	U65586
84539	gaatcagccagacactgatgacaaa	U65586
84540	cactggaggctggatgggtttgatt	U65586
84541	tgattcagcttaatacaaggataaa	U65586
84542	atacttggatcactacactttgttt	U65586
84543	ggatcactacactttgtttacaatt	U65586
84544	tgtttacaatttcctggtcagtaat	U65586
84545	tttacaatttcctggtcagtaatga	U65586
84546	caatttcctggtcagtaatgataaa	U65586
84547	aatctatgtcatcattattttctga	U65586
84548	atatgttgaaccctaccaaattcag	U65586
84549	catcccatattctgttttaatacaa	U65586
84550	cagccagacactgatgacaaaagtg	U65586
84551	agacagacatggctttgggaagaag	U65586
84552	atactatcccattataagttcaaca	U65586
84553	tataagttcaacaaccgaacaagtg	U65586
84554	agttcaacaaccgaacaagtgtcat	U65586
84555	ttcaacaaccgaacaagtgtcatgt	U65586
84556	caacaaccgaacaagtgtcatgtta	U65586
84557	ttagctgagacactggaggctggat	U65586
84558	ccatcttgaaccttctggataccta	AA105081
84559	tcttgaaccttctggatacctacga	AA105081
84560	atgttacctttgctgagacatttga	AA105081

SEQ ID NO	sequence	DBAxnID
127097	accaggaacatgttccacaataaca	W42141
127098	aacatgttccacaataacagcagga	W42141
127099	atgttccacaataacagcaggaaat	W42141
127100	gcccatgagtacccacatggctaac	U09383
127101	gagtacccacatggctaaccagatc	U09383
127102	taaagcctgacaaacttcataaatg	U09383
127103	ctgacaaacttcataaatggtgacg	U09383
127104	cctcttacatgctgaatcactggtg	U09383
127105	acatgctgaatcactggtgaaaatt	U09383
127106	atactgcttccatgtattttggaaa	U09383
127107	tgccagatatcttcccatatatcac	U09383
127108	atatcttcccatatatcacagcaat	U09383
127109	tcccatatatcacagcaatgcaaaa	U09383
127110	tagtggccagattccttgatgcaca	U09383
127111	ccagattccttgatgcacatttctc	U09383
127112	ccacatggctaaccagatcaaccaa	U09383
127113	ggctaaccagatcaaccaatataaa	U09383
127114	atataaatccacaagcagcctgatc	U09383
127115	aagcagcctgatccctccaatcaga	U09383
127116	cctgatccctccaatcagagaagtt	U09383
127117	ccctccaatcagagaagttgaagat	U09383
127118	tgaatgttgactcccaggagaccag	U09383
127119	ttgactcccaggagaccagaactat	U09383
127120	cgcagactcgctggccaacgggcgc	L10084
127121	gcgctccagcaagcggcggccgtcg	L10084
127122	cttccgcaaggctttccagcgcctg	L10084
127123	caaggctttccagcgcctgctctgc	L10084
127124	ggctttccagcgcctgctctgctgc	L10084
127125	tttccagcgcctgctctgctgcgcg	L10084
127126	cgggacaaccactgtggacagcgat	L10084
127127	gacaaccactgtggacagcgattcg	L10084
127128	aaccactgtggacagcgattcgagc	L10084
127129	ctcctcggagtccaaggtgtagaga	L10084
127130	cctcggagtccaaggtgtagagagc	L10084
127131	tagagagccaggctctctgggcgca	L10084
127132	ggctctgcgcgagcagaaggcgctc	L10084
127133	ggcgctcaagacactgggcatcatc	L10084
127134	gacactgggcatcatcatgggtgtg	L10084
127135	actgggcatcatcatgggtgtgttc	L10084
127136	gggcatcatcatgggtgtgttcacg	L10084
127137	cttcttcctggccaacgtggtgaag	L10084
127138	cttcctggccaacgtggtgaaggct	L10084
127139	cttcttcaactggctgggctacgcc	L10084
127140	gaccattctgctagatgccctactc	X57796
127141	agatgccctactccctgtgggtgaa	X57796
127142	agccacttgtgagtggcagggagat	X57796
127143	tgtaccatcagctcctggccagctg	X57796
127144	atcagctcctggccagctgagggtg	X57796
127145	tcctggccagctgagggtgccaaag	X57796
127146	aatgtatctggtgcccacttgggat	X57796
127147	tgcacagggcccaagccaagcttct	X57796
127148	aagccaagcttctcagggcctcctc	X57796
127149	agcttctcagggcctcctcagtggg	X57796
127150	ctccagctggagccctcgactcttg	X57796
127151	ctggagccctcgactcttgtaaata	X57796
127152	tggtagccacttccttggtgctacc	X57796
127153	ccacttccttggtgctaccaacttg	X57796
127154	tgctaccaacttggtgtacatagct	X57796
127155	catagcttttctcagccgccgagga	X57796
127156	ttttctcagccgccgaggactgcct	X57796
127157	cagccgccgaggactgcctgagcca	X57796
127158	ccgaggactgcctgagccagccact	X57796
127159	actgcctgagccagccacttgtgag	X57796
127160	atggcaacaggccgtccttcacctg	W42216
127161	gcctcacctgtaatgccaccacaaa	W42216
127162	ggccttgaccctgtggagatcctac	W42216
127163	gagatcctacaagagcgggagtaca	W42216
127164	atcctacaagagcgggagtacaggc	W42216

TABLE 1

SEQ ID NO	sequence	DBAxnID
41957	gcctatatcatcgagcaagcaggag	D42083
41958	atcatcgagcaagcaggaggtatgg	D42083
41959	ggtatggcaaccacaggcacccagc	D42083
41960	acaggcacccagccagtactggatg	D42083
41961	aagagtatctcagctgtgtgcagag	D42083
41962	atctcagctgtgtgcagagaaacca	D42083
41963	gaaaccaggcaggcaggtagtgagc	D42083
41964	aagtgacacaggtcacggtcagaac	D42083
41965	tcagaacagcgccctgctgctaagg	D42083
41966	agtgagccttatggagccaggtacg	D42083
41967	gatgtgcatcgcaccttggtctatg	D42083
41968	catcgcaccttggtctatggaggaa	D42083
41969	atgtacccagccaaccagaagagtc	D42083
41970	ccagccaaccagaagagtcctaatg	D42083
41971	cctaatggcaagctccggctcctgt	D42083
41972	ggcaagctccggctcctgtatgaat	D42083
41973	tgcaatcctgtggcctatatcatcg	D42083
41974	agatcagcgcagagattggagctcc	AA016639
41975	attggagctcctgcccaccaacgag	AA016639
41976	cgttcaggttgcgctactgaaagga	AA016639
41977	caggttgcgctactgaaaggattcc	AA016639
41978	ggattccgaccgaagcttaacatca	AA016639
41979	attccgaccgaagcttaacatcagc	AA016639
41980	tccgaccgaagcttaacatcagcaa	AA016639
41981	aagcttaacatcagcaaccatggag	AA016639
41982	gcttaacatcagcaaccatggaggt	AA016639
41983	aacatcagcaaccatggaggtcagc	AA016639
41984	catcagcaaccatggaggtcagcga	AA016639
41985	agcaaccatggaggtcagcgaatgg	AA016639
41986	ctgcccaccaacgagtaagacgaat	AA016639
41987	gcccaccaacgagtaagacgaattg	AA016639
41988	tttccatgaactttacagtgcaatc	AA016639
41989	tccatgaactttacagtgcaatccg	AA016639
41990	aactttacagtgcaatccgtgccta	AA016639
41991	caatccgtgcctacggcgttcaggt	AA016639
41992	ctacggcgttcaggttgcgctactg	AA016639
41993	acggcgttcaggttgcgctactgaa	AA016639
41994	catcttacatgtcattatcttagtc	D17577
41995	cattatcttagtctacatttttaag	D17577
41996	taaactgttccttgttcgacagttg	D17577
41997	gttccttgttcgacagttgtaatgc	D17577
41998	gtaatgcacacagatcctctagcaa	D17577
41999	cacacagatcctctagcaaggacag	D17577
42000	gatcctctagcaaggacagctaagt	D17577
42001	aggacagctaagtcctgcaaacagt	D17577
42002	tcctgcaaacagtcactcctctgtc	D17577
42003	ctctgtcaatacctcacttcaccat	D17577
42004	ctcacttcaccatgctgtgcttgca	D17577
42005	agtttgcctcgatggagaagcctct	D17577
42006	aatttgtcatatctctaaaatcttt	D17577
42007	tcatatctctaaaatctttaaattg	D17577
42008	gacactttctcagtttcgatttggt	D17577
42009	ctgactatttttactcatagcacgaa	D17577
42010	ctcatagcacgaactatatttgcta	D17577
42011	atagaaatacccaacaacaatgtgtg	D17577
42012	ataccaacaacaatgtgtgctctga	D17577
42013	acaacaatgtgtgctctgagcaatg	D17577
42014	tcacttagctcgggatttcgggtat	X78197
42015	tgctaaagccgtgtccgagtatttg	X78197
42016	atttacggatctgctggctcaggac	X78197
42017	ggatctgctggctcaggacaggaca	X78197
42018	gccgggcatccaaagctgtctcacg	X78197
42019	catccaaagctgtctcacgcacttc	X78197
42020	aagctgtctcacgcacttcagtctc	X78197
42021	ctgtctcacgcacttcagtctcatc	X78197
42022	ggccatttgcgctgcgctcacggcc	X78197
42023	cttgaacaacaccactaacaggcac	X78197
42024	gaacaacaccactaacaggcacacg	X78197

SEQ ID NO	sequence	DBAxnID
84561	ttacctttgctgagacatttgatgg	AA105081
84562	gtgctattcagcagtcagctgcaca	AA105081
84563	ctattcagcagtcagctgcacaaaa	AA105081
84564	ttcagcagtcagctgcacaaaaggg	AA105081
84565	agattaaacttcacaaaatcatcta	AA105081
84566	aacttcacaaaatcatctaccatct	AA105081
84567	ttcacaaaatcatctaccatcttat	AA105081
84568	aaatcatctaccatcttattgaaga	AA105081
84569	tctaccatcttattgaagatttgca	AA105081
84570	tgaaccttctggatacctacgatgc	AA105081
84571	ttctggatacctacgatgcttccca	AA105081
84572	tggatacctacgatgcttcccacga	AA105081
84573	atacctacgatgcttcccacgaatg	AA105081
84574	cctacgatgcttcccacgaatgtga	AA105081
84575	atgcttcccacgaatgtgaactcga	AA105081
84576	cccacgaatgtgaactcgaattagt	AA105081
84577	atgatgttacctttgctgagacatt	AA105081
84578	ataatccacaatttgctcaaatact	AA110711
84579	aatccacaatttgctcaaatactgg	AA110711
84580	gcttaatctgtactaatgggatggc	AA110711
84581	aatctgtactaatgggatggcacgt	AA110711
84582	atggcacgtggtcacatgcagtcca	AA110711
84583	ggcacgtggtcacatgcagtccatg	AA110711
84584	cgtggtcacatgcagtccatgtggg	AA110711
84585	gtcacatgcagtccatgtgggattc	AA110711
84586	catgcagtccatgtgggattctaac	AA110711
84587	tgcagtccatgtgggattctaacat	AA110711
84588	gattctaacataacattgagtgagt	AA110711
84589	ttctaacataacattgagtgagttt	AA110711
84590	tccacaatttgctcaaatactggtt	AA110711
84591	cacaatttgctcaaatactggtttt	AA110711
84592	ttcttataaactttctacaggatgt	AA110711
84593	caaattcttcacatttcacgttgac	AA110711
84594	aattcttcacatttcacgttgacta	AA110711
84595	ttcttcacatttcacgttgactatg	AA110711
84596	acatttcacgttgactatgtactta	AA110711
84597	atttcacgttgactatgtacttacg	AA110711
84598	tccttgtggatcagaccacaggttt	U65735
84599	atcagaccacaggtttgtccagagg	U65735
84600	gaggccctgtacaccaccaggcaca	U65735
84601	accaggcacagagattcaggttctc	U65735
84602	tctcccctatgggtgtagatcacat	U65735
84603	gtgtcaatgtccccggcaatgcttc	U65735
84604	atgtccccggcaatgcttcctcggg	U65735
84605	tccccggcaatgcttcctcgggctg	U65735
84606	cttcctcgggctggtgcatcttcat	U65735
84607	cctcgggctggtgcatcttcatcta	U65735
84608	ggcaagacgccgatgaggggatcct	U65735
84609	aatctgcaatggccatagcaagtct	U65735
84610	tgtccagaggggttgcctttatccg	U65735
84611	caattaccagtttcattggtcataa	U65735
84612	caggttcctccgagcccatcacagt	U65735
84613	cctccgagcccatcacagtgaagtt	U65735
84614	ccgagcccatcacagtgaagtttgc	U65735
84615	agcccatcacagtgaagtttgcagc	U65735
84616	ttgcagccaatcccaaccagaacaa	U65735
84617	cgcagctgtaccactcgcctgctag	U65735
84618	ccagccagcacttcaatgagatgag	U67326
84619	tggtggcctcccagataatgaatta	U67326
84620	tgacagatctggcattcattgaaga	U67326
84621	atttctccaaaatgcgaatgatatc	U67326
84622	tgatatcacacattattcgagagat	U67326
84623	tacgccagttccagcagaccgctta	U67326
84624	agttccagcagaccgcttaccgcat	U67326
84625	agcagaccgcttaccgcatagacca	U67326
84626	tagaccagcagccaaaggtcataca	U67326
84627	tcatacaatacctgcttgacaaagc	U67326
84628	attcactctatgagctgtcactcaa	U67326

SEQ ID NO	sequence	DBAxnID
127165	gagtacaggcttcaggctcgaatcg	W42216
127166	tacaggcttcaggctcgaatcgcac	W42216
127167	aggcttcaggctcgaatcgcacaca	W42216
127168	caggctcgaatcgcacacagaattc	W42216
127169	gctcgaatcgcacacagaattcagg	W42216
127170	cgaatcgcacacagaattcaggaac	W42216
127171	atcgcacacagaattcaggaacttg	W42216
127172	tcacctgtaatgccaccacaaacac	W42216
127173	gtaatgccaccacaaacacagtccc	W42216
127174	cagcctgctccattggtgccactgc	W42216
127175	gctccattggtgccactgcaccaga	W42216
127176	ccattggtgccactgcaccagaagc	W42216
127177	ttggtgccactgcaccagaagcaga	W42216
127178	gtgccactgcaccagaagcagagcc	W42216
127179	ctgcaccagaagcagagccgaatca	W42216
127180	tacccagagcttgcacattttctag	M59378
127181	gagcttgcacattttctagtctaac	M59378
127182	cctcacacttgtatacctgcatttt	M59378
127183	atacctgcattttatccactaagac	M59378
127184	gcattttatccactaagacatctct	M59378
127185	tatccactaagacatctctccaagg	M59378
127186	agagacctgattcctgcaagttgtc	M59378
127187	tacatgcttctgcatatgtgcacac	M59378
127188	cttctgcatatgtgcacacatcaca	M59378
127189	tgcacacatcacattcttgcacaca	M59378
127190	catcacattcttgcacacacactca	M59378
127191	attcttgcacacacactcacatacc	M59378
127192	gcacattttctagtctaacttgctt	M59378
127193	gtctaacttgcttcagggatctctg	M59378
127194	cttgcttcagggatctctgtctgcc	M59378
127195	atctctgtctgcctatggagtgctc	M59378
127196	agtgctcaggttacaggcaggctgc	M59378
127197	ccatacctgcccgacatttacatga	M59378
127198	ctgcccgacatttacatgaatacta	M59378
127199	tctggtcctcacacttgtatacctg	M59378
127200	gagactgcaaacacccaaacattgt	W42262
127201	actgcaaacacccaaacattgttgc	W42262
127202	ctggacccctttcagaactgcagat	W42262
127203	gacccctttcagaactgcagattgc	W42262
127204	ccctttcagaactgcagattgcata	W42262
127205	tttcagaactgcagattgcatatgt	W42262
127206	gattgtattaccttcacagtaaagg	W42262
127207	gcgctaacattctcctaacggataa	W42262
127208	ctaacattctcctaacggataatgg	W42262
127209	acattctcctaacggataatggtca	W42262
127210	ttctcctaacggataatggtcacgt	W42262
127211	tctcctaacggataatggtcacgtg	W42262
127212	gcaaacacccaaacattgttgctta	W42262
127213	acattgttgcttattttggaagcta	W42262
127214	attttggaagctatctcaggcgaga	W42262
127215	gaagctatctcaggcgagataaact	W42262
127216	gctatctcaggcgagataaactttg	W42262
127217	gctctttacaggacatatatcatgt	W42262
127218	atcatgtaactggacccctttcaga	W42262
127219	taactggacccctttcagaactgca	W42262
127220	gtgtgccagtgccgccgaaagagct	M65132
127221	cagtgccgccgaaagagctatgggc	M65132
127222	gtgaccacttctgccaacttgtagg	M65132
127223	ggcagctttggcggtctgctccctc	M65132
127224	atctgggctggtgagccaggacttc	M65132
127225	ggacttctggtaggctgttcatgcc	M65132
127226	ggctgttcatgccctttgtcaagcg	M65132
127227	tcatgccctttgtcaagcgcctcaa	M65132
127228	cctttgtcaagcgcctcaactacgt	M65132
127229	tcaagcgcctcaactacgtaagcct	M65132
127230	cagttagtggtggctctcagaagga	M65132
127231	gctctcagaaggactggcctggaaa	M65132
127232	cagctggacatctttccaacccagg	M65132

TABLE 1

SEQ ID NO	sequence	DBAxnID
42025	cactaacaggcacacgtctggggaa	X78197
42026	gaacagacagcacacggaccccagt	X78197
42027	acagcacacggaccccagtgacctg	X78197
42028	ggaccccagtgacctgcactccagg	X78197
42029	ccccagtgacctgcactccaggaag	X78197
42030	tgacctgcactccaggaagaatatg	X78197
42031	gctgctggccaccaagcaactttgt	X78197
42032	gctggccaccaagcaactttgtaaa	X78197
42033	agaatttacggatctgctggctcag	X78197
42034	acatgtcaatgctgccaatgacagc	AA016676
42035	accatccagtatgtcgacaggtgac	AA016676
42036	cctgaccagcattgcagcacagctg	AA016676
42037	attgcagcacagctgtcatgcagtc	AA016676
42038	tgcagcacagctgtcatgcagtctt	AA016676
42039	acagctgtcatgcagtcttcagcag	AA016676
42040	agctgtcatgcagtcttcagcagag	AA016676
42041	ctgtcatgcagtcttcagcagagac	AA016676
42042	gtcatgcagtcttcagcagagacca	AA016676
42043	catgcagtcttcagcagagaccaca	AA016676
42044	tgcagtcttcagcagagaccacagc	AA016676
42045	cagtcttcagcagagaccacagcca	AA016676
42046	catccagtatgtcgacaggtgaccc	AA016676
42047	gtcttcagcagagaccacagccatt	AA016676
42048	tccagtatgtcgacaggtgacccac	AA016676
42049	atgtcgacaggtgacccactggctt	AA016676
42050	cactcatggaaccggtcggtgacct	AA016676
42051	ctcatggaaccggtcggtgacctga	AA016676
42052	gaaccggtcggtgacctgaccagca	AA016676
42053	gtcggtgacctgaccagcattgcag	AA016676
42054	gacctgaccagcattgcagcacagc	AA016676
42055	tcgatccaacaaaggtagtgatagc	AA016681
42056	gtgggcaccatgctaactacatcag	AA016681
42057	taactacatcagtatcagtagtgac	AA016681
42058	actacatcagtatcagtagtgacat	AA016681
42059	ctacatcagtatcagtagtgacata	AA016681
42060	acataaattcctaaatgctgagaag	AA016681
42061	cataaattcctaaatgctgagaagg	AA016681
42062	taaattcctaaatgctgagaaggac	AA016681
42063	aaattcctaaatgctgagaaggaca	AA016681
42064	attcctaaatgctgagaaggacact	AA016681
42065	ttcctaaatgctgagaaggacactg	AA016681
42066	atcgagactcgggtatgtggaggca	AA016681
42067	tgggcaccatgctaactacatcagt	AA016681
42068	ggcaccatgctaactacatcagtat	AA016681
42069	gcaccatgctaactacatcagtatc	AA016681
42070	accatgctaactacatcagtatcag	AA016681
42071	ccatgctaactacatcagtatcagt	AA016681
42072	atgctaactacatcagtatcagtag	AA016681
42073	tgctaactacatcagtatcagtagt	AA016681
42074	ctaactacatcagtatcagtagtga	AA016681
42075	gcggcctttctgaacacaatgccct	U04999
42076	tttctgaacacaatgccctgctcca	U04999
42077	ctctccgccgtgtacccaatggcta	U04999
42078	tacccaatggctatcactgcacttt	U04999
42079	atggctatcactgcactttgggact	U04999
42080	atcactgcactttgggactcaacac	U04999
42081	gcactttgggactcaacactggcgt	U04999
42082	accccgatcaggaccactggtgcta	U04999
42083	atcaggaccactggtgctagcttca	U04999
42084	accactggtgctagcttcaccacga	U04999
42085	accacccatgtaccagctccatggg	U04999
42086	gggccctcacatctcggcctctgtg	U04999
42087	atgccctgctccagaaagagccccct	U04999
42088	agcctctagctcctggctcccgaat	U04999
42089	ctggctcccgaattggctctgaccc	U04999
42090	ttggctctgacccttacctagggca	U04999
42091	ccctgcctgaggatacactcacctt	U04999
42092	ctgaggatacactcacctttgaaga	U04999

SEQ ID NO	sequence	DBAxnID
84629	tctatgagctgtcactcaaaattga	U67326
84630	tgaattatgccgacatcagctcccg	U67326
84631	agctgtcactcaaaattgaacctcg	U67326
84632	gccgatgtctccacaactacaatgg	U67326
84633	tggagatcacctcagccttaaacag	U67326
84634	tcacctcagccttaaacagaagtcc	U67326
84635	gaagtcccatctacaggctgaagaa	U67326
84636	ccatctacaggctgaagaaaacctg	U67326
84637	acctcagagagactctcaaaaactg	U67326
84638	tgtacttgacagatctggcattcat	U67326
84639	tggccttgaatgtcaactggcgtta	AA105660
84640	tgtcaactggcgttaggatcccttt	AA105660
84641	tttgctcctgttgacgtgttatcaa	AA105660
84642	ttgctcctgttgacgtgttatcaag	AA105660
84643	gctcctgttgacgtgttatcaagtg	AA105660
84644	ctcctgttgacgtgttatcaagtgg	AA105660
84645	ctatcagaagtcttgcctggagaga	AA105660
84646	tatcagaagtcttgcctggagagag	AA105660
84647	cagaagtcttgcctggagagagagt	AA105660
84648	agaagtcttgcctggagagagagta	AA105660
84649	gaagtcttgcctggagagagagtag	AA105660
84650	agtcttgcctggagagagagtagga	AA105660
84651	gttaggatccctttttgctcctgttg	AA105660
84652	ttaggatccctttttgctcctgttga	AA105660
84653	aggatccctttttgctcctgttgacg	AA105660
84654	ggatccctttttgctcctgttgacgt	AA105660
84655	gatccctttttgctcctgttgacgtg	AA105660
84656	tccctttttgctcctgttgacgtgtt	AA105660
84657	ccttttgctcctgttgacgtgttat	AA105660
84658	ttttgctcctgttgacgtgttatca	AA105660
84659	gggatctgcttttgcctgataaccc	U71202
84660	tgcttttgcctgataaccctggttg	U71202
84661	atagtctatgttatctgttgtagga	U71202
84662	tgatacatgtgcccaagaaaggacc	U71202
84663	aatcttcttagaattgcttcacctg	U71202
84664	cttagaattgcttcacctgcatagt	U71202
84665	attgcttcacctgcatagtagccat	U71202
84666	tcacctgcatagtagccatctgtct	U71202
84667	gcatagtagccatctgtctgcagcg	U71202
84668	gatatggcctctacatactaagtgt	U71202
84669	gcctctacatactaagtgttctctt	U71202
84670	tctctcattttccaagaagcattac	U71202
84671	gtttgcatttcacaaatctgtaaat	U71202
84672	atgtccttgtcttctcttaagtgga	U71202
84673	atttcttcttgagtcctctatagat	U71202
84674	tcttgagtcctctatagatgaacat	U71202
84675	tacatgtccccatatttagtgctca	U71202
84676	tccccatatttagtgctcagtctgc	U71202
84677	gtgctcagtctgccatatgctttat	U71202
84678	agtctgccatatgctttatagaagt	U71202
84679	taaccatgcgccattcgtcacggat	AA105716
84680	accatgcgccattcgtcacggatct	AA105716
84681	tctcagtatcctgaccctctacgtc	AA105716
84682	tcagtatcctgaccctctacgtcat	AA105716
84683	agtatcctgaccctctacgtcatgt	AA105716
84684	tcctgaccctctacgtcatgtagca	AA105716
84685	ctgaccctctacgtcatgtagcatg	AA105716
84686	gaccctctacgtcatgtagcatggc	AA105716
84687	ccctctacgtcatgtagcatggcgg	AA105716
84688	ctctacgtcatgtagcatggcggga	AA105716
84689	ctacgtcatgtagcatggcgggaag	AA105716
84690	ggctcatggcactggagagttgagt	AA105716
84691	catgcgccattcgtcacggatctca	AA105716
84692	tgcgccattcgtcacggatctcagt	AA105716
84693	cgccattcgtcacggatctcagtat	AA105716
84694	ccattcgtcacggatctcagtatcc	AA105716
84695	attcgtcacggatctcagtatcctg	AA105716
84696	cacggatctcagtatcctgaccctc	AA105716

SEQ ID NO	sequence	DBAxnID
127233	gacatctttccaacccaggacacct	M65132
127234	acccaggacacctaccatcctatga	M65132
127235	agtaccaagcgtcagccctatgagg	M65132
127236	aagcgtcagccctatgaggaggttt	M65132
127237	ggcagtagcagtctctcttatacca	M65132
127238	agcagtctctcttataccaacccag	M65132
127239	tataccaacccagctgtggtgacca	M65132
127240	atctccagttctttcatcatgtgac	W42297
127241	atgtgactgatctcatcctctgcta	W42297
127242	agcagacagctacttagcgcgtcaa	W42297
127243	ctacttagcgcgtcaatgcgatcga	W42297
127244	cttagcgcgtcaatgcgatcgatca	W42297
127245	agcgcgtcaatgcgatcgatcatcc	W42297
127246	tcaatgcgatcgatcatcctcggca	W42297
127247	atgcgatcgatcatcctcggcatgt	W42297
127248	cgatcgatcatcctcggcatgttta	W42297
127249	atgtttaaccggtcgtagacatctg	W42297
127250	tagacatctgttggtatctgatgaa	W42297
127251	acatctgttggtatctgatgaaata	W42297
127252	ctgatctcatcctctgctagatcca	W42297
127253	catctgttggtatctgatgaaatat	W42297
127254	tcatcctctgctagatccactttac	W42297
127255	tcctctgctagatccactttaccca	W42297
127256	agctaatcctggatctagggcgaaa	W42297
127257	taatcctggatctagggcgaaatcc	W42297
127258	gaaatccccagtctaagcagacagc	W42297
127259	cccagtctaagcagacagctactta	W42297
127260	ctaagcagacagctacttagcgcgt	W42297
127261	ttcggcacgcgggtgaacggcacct	AA014885
127262	gggaactctagccagcagcagcgga	AA014885
127263	agatcagcttccgccacaagcagca	AA014885
127264	gccacaagcagcaactcacgctgca	AA014885
127265	caagcagcaactcacgctgcaccag	AA014885
127266	agcagcaactcacgctgcaccagcg	AA014885
127267	gcatccaccgggtacgcagcggcta	AA014885
127268	atccaccgggtacgcagcggctatg	AA014885
127269	ccaccgggtacgcagcggctatgct	AA014885
127270	tacgcagcggctatgctcccctgag	AA014885
127271	gggtcagccttcaatcccaagcact	AA014885
127272	gtcagccttcaatcccaagcactcg	AA014885
127273	aatcggcgtggtgagaggcccttca	AA014885
127274	cttcacttgcatggagtgtggcaaa	AA014885
127275	tcacttgcatggagtgtggcaaaaa	AA014885
127276	agattaacctcatcatccaccagcg	AA014885
127277	ctacgagtgtgccgagtgtgagatc	AA014885
127278	acgagtgtgccgagtgtgagatcag	AA014885
127279	tgtgagatcagcttccgccacaagc	AA014885
127280	tgagatcagcttccgccacaagcag	AA014885
127281	tggccctcctttctcatgtagtaca	X03208
127282	aagacatcactcatataatgtgtga	X03208
127283	tccctgtgttctggcaaataattcc	X03208
127284	agatccaatttcttcatccccctttg	X03208
127285	attctttcttcctggcttacagtgt	X03208
127286	tggcttacagtgttgagtggagact	X03208
127287	atacagcatccccagtataaattct	X03208
127288	catccccagtataaattctgtgatc	X03208
127289	caattccagtctatccacatgttac	X03208
127290	cagtctatccacatgttacctagga	X03208
127291	atccacatgttacctaggatacctc	X03208
127292	atatacccatgacaatttttcatga	X03208
127293	ctttacctaacattcttcagagctt	X03208
127294	ctaacattcttcagagcttcttata	X03208
127295	ttcttcagagcttcttataacaaag	X03208
127296	gtaaacaagcctcagatcttccatt	X03208
127297	cagatcttccattacggtcatttat	X03208
127298	ttccattacggtcatttattctgac	X03208
127299	catttattctgactttcatccctgt	X03208
127300	ctttcatccctgtgttctggcaaat	X03208

TABLE 1

SEQ ID NO	sequence	DBAxnID
42093	aggcagtggccaccaactctggccg	U04999
42094	gctcctccaggacttcctatgtgtc	U04999
42095	atgtacgccttttatcacagactta	X89650
42096	gccttttatcacagacttaagagcc	X89650
42097	tctacctttgttctagaaggcgctc	X89650
42098	tttgttctagaaggcgctcctttca	X89650
42099	ctagaaggcgctcctttcagggttg	X89650
42100	ccaagtgtggcccagcactaaccca	X89650
42101	tcttgggttgagccctggcagttct	X89650
42102	aggtcctgccctgcatcatggcttg	X89650
42103	tggagcacttcccccttcagaggtct	X89650
42104	ccttcagaggtctacattctagggt	X89650
42105	gaggtctacattctagggtgtaggc	X89650
42106	ctgagttcttctgtaaagagacgaa	X89650
42107	catgaacagttcccttctgtgtcta	X89650
42108	cttatattcaacactttatgatgcc	X89650
42109	ttcaacactttatgatgccctttttg	X89650
42110	actttatgatgccctttttgtcacta	X89650
42111	tgatgccctttttgtcactatcctac	X89650
42112	ccttttgtcactatcctactcaaag	X89650
42113	cagacctgtcccagtgactctacct	X89650
42114	agtgactctacctttgttctagaag	X89650
42115	ccatcagctggagttcatcctcagg	X83733
42116	atcagctggagttcatcctcaggct	X83733
42117	ttttctatttgtcctgccttgagcc	X83733
42118	tggatactgcttgtctctgttgaag	X83733
42119	gatactgcttgtctctgttgaagct	X83733
42120	ctctgttgaagctgtggtgacctgg	X83733
42121	ctccccagggagatgggagctactc	X83733
42122	gagctactcaaggacagctcaggcc	X83733
42123	gctactcaaggacagctcaggcctc	X83733
42124	tactcaaggacagctcaggcctctg	X83733
42125	ctcaaggacagctcaggcctctgca	X83733
42126	caaggacagctcaggcctctgcagt	X83733
42127	cagctggagttcatcctcaggctcc	X83733
42128	aaggacagctcaggcctctgcagtt	X83733
42129	tcaggcaccaggggttcaccctcag	X83733
42130	tcaaatcctggggtgcaccctgctc	X83733
42131	gtggtcttttcccattgccagtcct	X83733
42132	ggtcttttcccattgccagtccttg	X83733
42133	tcttttcccattgccagtccttgga	X83733
42134	ttttcccattgccagtccttggaag	X83733
42135	ttcccattgccagtccttggaaggt	X83733
42136	catcttggctgcagaagtcttacgg	AA016774
42137	acccgtttgcttgagtgctttggca	AA016774
42138	agcctgcagatcttccgcctgaatg	AA016774
42139	ctgcagatcttccgcctgaatgact	AA016774
42140	atcttccgcctgaatgactgggcca	AA016774
42141	ttccgcctgaatgactgggccagaa	AA016774
42142	agaccatatcgctgccctgagcagc	AA016774
42143	aagctctcggatattgcccggccaa	AA016774
42144	ctctcggatattgcccggccaagga	AA016774
42145	tcggatattgcccggccaaggatgt	AA016774
42146	attgcccggccaaggatgttttgcg	AA016774
42147	gcccggccaaggatgttttgcgaga	AA016774
42148	ttgcttgagtgctttggcaatgtag	AA016774
42149	tttggcaatgtagtcgcgtgagacg	AA016774
42150	aatgtagtcgcgtgagacgtcgtcc	AA016774
42151	ttgtaaatcaaagccttgtgccaat	AA016774
42152	taaatcaaagccttgtgccaatggg	AA016774
42153	aaagccttgtgccaatgggcgactg	AA016774
42154	gccttgtgccaatgggcgactgaaa	AA016774
42155	ggcagcctgcagatcttccgcctga	AA016774
42156	atgcgaacatctggctgggcctcaa	U08595
42157	acatctggctgggcctcaacgacat	U08595
42158	acaagcaatgccgcgatcagttgcc	U08595
42159	agcaatgccgcgatcagttgcccta	U08595
42160	aatgccgcgatcagttgccctacat	U08595
84697	cggatctcagtatcctgaccctcta	AA105716
84698	gatctcagtatcctgaccctctacg	AA105716
84699	tgcctaccgttactacatcgacgac	U71205
84700	caaacccaagaacagcgtatggaag	U71205
84701	gcctactgagagctgtcattgactt	U71205
84702	ctgtcattgacttactgtctaaagc	U71205
84703	ttgacttactgtctaaagccctgtg	U71205
84704	ctaaagccctgtgctccgtgactcc	U71205
84705	gctccgtgactcccacgcatgaact	U71205
84706	tgactcccacgcatgaactcatcag	U71205
84707	atgaactcatcagggccgtgtctac	U71205
84708	tcatcagggccgtgtctactcctta	U71205
84709	tgtctactccttaattgtcacatta	U71205
84710	tggtcggccattgttttggttatgt	U71205
84711	agactcggtcacctgagtgaagtgg	U71205
84712	ggctgtgctcctgtgaactgcagtg	U71205
84713	gaactgcagtgctccccagtgcagt	U71205
84714	tcctgtaatctgcagcagggagcac	U71205
84715	aatctgcagcagggagcacgtcctc	U71205
84716	ttattctaaacgtcactggccaggg	U71205
84717	taaacgtcactggccaggggactcg	U71205
84718	tcactggccaggggactcgcctact	U71205
84719	ggttccgccatggaatccaacaagg	AA105758
84720	ttccgccatggaatccaacaaggat	AA105758
84721	aggccatccaaagcaaccagcccga	AA105758
84722	cgcttcctggagaaggcgcacggct	AA105758
84723	acgccacgagtcagcgcactgatcg	AA105758
84724	cacgagtcagcgcactgatcgagtc	AA105758
84725	cgagtcagcgcactgatcgagtccc	AA105758
84726	agtcagcgcactgatcgagtccctc	AA105758
84727	tcagcgcactgatcgagtccctcaa	AA105758
84728	cgcactgatcgagtccctcaaccaa	AA105758
84729	cactgatcgagtccctcaaccaaaa	AA105758
84730	acagtccaccggtgatcaccctcaa	AA105758
84731	ccgccatggaatccaacaaggatga	AA105758
84732	aggatgaagccgagcgctgtatcag	AA105758
84733	gatgaagccgagcgctgtatcagca	AA105758
84734	aagccgagcgctgtatcagcatcgc	AA105758
84735	ctgtatcagcatcgccctcaaggcc	AA105758
84736	gtatcagcatcgccctcaaggccat	AA105758
84737	atcgccctcaaggccatccaaagca	AA105758
84738	ctcaaggccatccaaagcaaccagc	AA105758
84739	cctacatatggatgcctgataccca	X97399
84740	tatggatgcctgatacccatttaac	X97399
84741	gcctcaggtcacaacccatccatgt	X97399
84742	ggtcacaacccatccatgtgtggac	X97399
84743	aacccatccatgtgtggaccagact	X97399
84744	atccctctggttccacgcctctaga	X97399
84745	ccacgcctctagatttggaagcaga	X97399
84746	aagcagattctaagcaccaggtcat	X97399
84747	agcaccaggtcattttatctaatgt	X97399
84748	ttttatctaatgtctaacatcctta	X97399
84749	ctaatgtctaacatccttacaaatc	X97399
84750	ccctctcataaatgtggatctgttt	X97399
84751	aactatcaaagccgtcatttcccat	X97399
84752	caaagccgtcatttcccatggggtg	X97399
84753	cgtcatttcccatggggtgtagcca	X97399
84754	accccagagtattcagaccaatcaa	X97399
84755	tcagaccaatcaaagcataagagtg	X97399
84756	tctgtctatagtcttcactgcttat	X97399
84757	ttgttgactttctattatggaaatc	X97399
84758	acatgtacacagtagacgtgatggc	X97399
84759	gagcctgctatgctaggaggctatg	X81058
84760	ttctcaggcaggtgaccgtaggagg	X81058
84761	taaccttctgcctagactagctagc	X81058
84762	tctgcctagactagctagcctggct	X81058
84763	tctgctcttgcccttctggagggat	X81058
84764	cttgcccttctggagggattctcat	X81058
127301	tttgtcttgcgaggaattgtgttat	W42350
127302	ttgtcttgcgaggaattgtgttata	W42350
127303	catgcagagtgtccttcagtagttg	W42350
127304	atgcagagtgtccttcagtagttgc	W42350
127305	cagtagttgcccttggtgctgcatt	W42350
127306	agtagttgcccttggtgctgcattg	W42350
127307	tagttgcccttggtgctgcattggt	W42350
127308	agttgcccttggtgctgcattggta	W42350
127309	gttgcccttggtgctgcattggtac	W42350
127310	cccttggtgctgcattggtacgagg	W42350
127311	cattggtacgaggttccttgagata	W42350
127312	ttggtacgaggttccttgagataat	W42350
127313	agatgtggttcgcatgcagagtgtc	W42350
127314	gatgtggttcgcatgcagagtgtcc	W42350
127315	tgtggttcgcatgcagagtgtcctt	W42350
127316	gtggttcgcatgcagagtgtccttc	W42350
127317	tggttcgcatgcagagtgtccttca	W42350
127318	gttcgcatgcagagtgtccttcagt	W42350
127319	ttcgcatgcagagtgtccttcagta	W42350
127320	gcatgcagagtgtccttcagtagtt	W42350
127321	tatcattgacttaaccaaaaccaat	M16358
127322	ttgacttaaccaaaaccaatcgctg	M16358
127323	cctctcttccgatcgatacagcatt	M16358
127324	ttccgatcgatacagcattgggtga	M16358
127325	tccgatcgatacagcattgggtgac	M16358
127326	ccgatcgatacagcattgggtgaca	M16358
127327	cgatcgatacagcattgggtgacaa	M16358
127328	gatcgatacagcattgggtgacaag	M16358
127329	tgacttaaccaaaaccaatcgctgc	M16358
127330	ttaaccaaaaccaatcgctgcctca	M16358
127331	taaccaaaaccaatcgctgcctcaa	M16358
127332	aaccaaaaccaatcgctgcctcaag	M16358
127333	accaaaaccaatcgctgcctcaagg	M16358
127334	tccagcatcctctcttccgatcgat	M16358
127335	catcctctcttccgatcgatacagc	M16358
127336	atcctctcttccgatcgatacagca	M16358
127337	cgccggaccccgatgatgttcttta	W43907
127338	cggaccccgatgatgttcttactg	W43907
127339	atgtttcccaacacagtacctgaga	W43907
127340	tttcccaacacagtacctgagagca	W43907
127341	agggccgcgacagccactgtatcct	W43907
127342	gcgacagccactgtatcctctcgag	W43907
127343	acagccactgtatcctctcgagcgt	W43907
127344	gtatcctctcgagcgtcaacagagg	W43907
127345	tcctctcgagcgtcaacagaggagg	W43907
127346	cctctcgagcgtcaacagaggaggc	W43907
127347	ctctcgagcgtcaacagaggaggca	W43907
127348	tctcgagcgtcaacagaggaggcac	W43907
127349	acccctgatgatgttcttactgcta	W43907
127350	gatgatgttcttactgctagccttg	W43907
127351	gatgttcttactgctagccttgaga	W43907
127352	gttcttactgctagccttgagagca	W43907
127353	cttactgctagccttgagagcagca	W43907
127354	agcagcaacatgtttcccaacacag	W43907
127355	agcaacatgtttcccaacacagtac	W43907
127356	aacatgtttcccaacacagtacctg	W43907
127357	cggtctctccgcgaagcgaggacga	W43924
127358	ggtctctccgcgaagcgaggacgat	W43924
127359	ctttggaggtcatcctttgatggcg	W43924
127360	tggaggtcatcctttgatggcgcaa	W43924
127361	atcctttgatggcgcaagatatcta	W43924
127362	tcctttgatggcgcaagatatctac	W43924
127363	actctcacagcttagatgtcatcga	W43924
127364	ctctcacagcttagatgtcatcgat	W43924
127365	tctcacagcttagatgtcatcgatt	W43924
127366	tcacagcttagatgtcatcgattca	W43924
127367	tagatgtcatcgattcacgaggaga	W43924
127368	atcgattcacgaggagaggattcta	W43924

TABLE 1

SEQ ID NO	sequence	DBAxnID
42161	gcgatcagttgccctacatctgcca	U08595
42162	atcagttgccctacatctgccagtt	U08595
42163	agttgccctacatctgccagtttgc	U08595
42164	acatctgccagtttgccattgtgta	U08595
42165	tctgccagtttgccattgtgtagta	U08595
42166	agtttgccattgtgtagtacagccg	U08595
42167	tgtagtacagccgctactagcccag	U08595
42168	gcctcaacgacatggccgcggaagg	U08595
42169	tcaacgacatggccgcggaaggcgc	U08595
42170	gcctcctggcctacaagaactggga	U08595
42171	tcctggcctacaagaactgggagac	U08595
42172	tggcctacaagaactgggagacgga	U08595
42173	agatcacgacgcaacccgacggcgg	U08595
42174	cacgcaacggcaagtggttcgacaa	U08595
42175	ggttcgacaagcaatgccgcgatca	U08595
42176	atgatcatgaccgagcgccgatagc	AA016738
42177	cgatagcacttctcgctgctgcgac	AA016738
42178	ttcaggcgagcgctcaaccgatcag	AA016738
42179	caggcgagcgctcaaccgatcagct	AA016738
42180	ggcgagcgctcaaccgatcagctca	AA016738
42181	ctcaaccgatcagctcagcaactgt	AA016738
42182	caaccgatcagctcagcaactgtgt	AA016738
42183	aaccgatcagctcagcaactgtgtc	AA016738
42184	accgatcagctcagcaactgtgtct	AA016738
42185	ccgatcagctcagcaactgtgtctc	AA016738
42186	cgatcagctcagcaactgtgtctcg	AA016738
42187	gatcagctcagcaactgtgtctcgg	AA016738
42188	gatagcacttctcgctgctgcgacc	AA016738
42189	atccattccgggactggtagtctga	AA016738
42190	tccattccgggactggtagtctgaa	AA016738
42191	atgccggtcgcgaccagccgatggc	AA016738
42192	gaccagccgatggccccgcgtgcgt	AA016738
42193	accagccgatggccccgcgtgcgtg	AA016738
42194	tgcgtgaccctggccgcatgagcct	AA016738
42195	tgagccttcaggcgagcgctcaacc	AA016738
42196	ttcgcctgccaactctgggctggtt	U21224
42197	gcctgccaactctgggctggttcaa	U21224
42198	agaagtccccctagcagagaagaact	U21224
42199	ccccctagcagagagaactgtctca	U21224
42200	gagaactgtctcacatggtattgta	U21224
42201	aactgtctcacatggtattgtattg	U21224
42202	tgtctcacatggtattgtattgggg	U21224
42203	gactctgtttccaatacgctctaaa	U21224
42204	ttcaaatgaagccgctgtaaccaac	U21224
42205	tgaagccgctgtaaccaacctctcc	U21224
42206	tatcgtctctgtaatgccagaagat	U21224
42207	cgtctctgtaatgccagaagatatt	U21224
42208	tccactattctctccttctcggtca	U21224
42209	gtcaatctgggcttttcactccgcg	U21224
42210	aatctgggcttttcactccgcgagt	U21224
42211	ggcttttcactccgcgagtggctgt	U21224
42212	cactgtggtcctttatgcaacacgt	U21224
42213	ttatgcaacacgtctatggacttaa	U21224
42214	tgcaacacgtctatggacttaactt	U21224
42215	gttcgaagaagtccccctagcagag	U21224
42216	gagcctcagtccttgtgacttccat	AA016811
42217	gcctcagtccttgtgacttccatag	AA016811
42218	ccgcagcgctttgttagcaccctag	AA016811
42219	cgcagcgctttgttagcaccctagg	AA016811
42220	cagcgctttgttagcaccctagggt	AA016811
42221	agcgctttgttagcaccctagggtg	AA016811
42222	gcgctttgttagcaccctagggtgt	AA016811
42223	gtcgtccgggtccatggagtagctt	AA016811
42224	tcgtccgggtccatggagtagcttc	AA016811
42225	gcacatccggtcgacgcctggaaac	AA016811
42226	catccggtcgacgcctggaaacgag	AA016811
42227	ttaccgcatcgaggaggaaaaccag	AA016811
42228	cctcagtccttgtgacttccatagg	AA016811

SEQ ID NO	sequence	DBAxnID
84765	cttctggagggattctcatggccct	X81058
84766	ttccccagactgtgatagtccaggg	X81058
84767	gtctgtagctgggttagagatgtag	X81058
84768	gatgtagaccatctacaatacccta	X81058
84769	gaccatctacaatacctatttatg	X81058
84770	taccctatttatgtcttcctttgag	X81058
84771	ggcacttccaggaaaagtgcatttt	X81058
84772	cctgtccaatgctgattccctttcg	X81058
84773	agattctaggtggcactgtttgcct	X81058
84774	gcactgtttgccttaataccccagg	X81058
84775	ttaataccccaggagttcatcttct	X81058
84776	ccccaggagttcatcttcttctctg	X81058
84777	atcttcttctctgcctgctaacctt	X81058
84778	gcctgctaaccttctgcctagacta	X81058
84779	gagggaaccaatccccagcagcaca	X81059
84780	cagcacaaataggcccctagaccca	X81059
84781	gtgctcttggttcccagagctataa	X81059
84782	ggctccctgctgtgcctgtttattt	X81059
84783	tcctggtttctgctgacgctgggct	X81059
84784	ggtctcacctgtaccctctaggcgc	X81059
84785	ttcaggagcacaggcgtgtggcttc	X81059
84786	ctggctgtgtacacagggtgcttta	X81059
84787	tgctttattctccacagagtgatac	X81059
84788	cttggccgatgtccccatatgtaca	X81059
84789	cgatgtccccatatgtacagaactg	X81059
84790	ccccatatgtacagaactgaataaa	X81059
84791	gccccctagacccagctttatgcagg	X81059
84792	tatacctaaccaagacaacacagag	X81059
84793	ccttgccctctctggcaagcagcag	X81059
84794	cctctctggcaagcagcagtcctgg	X81059
84795	tggcaagcagcagtcctgggatcac	X81059
84796	gcagcagtcctgggatcacacattt	X81059
84797	ggatcacacatttgcaagggaccac	X81059
84798	tcccttgtgctcttggttcccagag	X81059
84799	ccatctggcacagggacagagacca	AA105222
84800	agactgagccaagcgaccgcgcgac	AA105222
84801	tgctgtggctctatgacaggtacag	AA105222
84802	ctgtggctctatgacaggtacagcg	AA105222
84803	ctctatgacaggtacagcggcacga	AA105222
84804	atgacaggtacagcggcacgagtag	AA105222
84805	caggtacagcggcacgagtagagtc	AA105222
84806	ggtacagcggcacgagtagagtcca	AA105222
84807	tacagcggcacgagtagagtccagg	AA105222
84808	aggctacccggacaccggcatcgca	AA105222
84809	ctgcgcggtggtaacacggtccgca	AA105222
84810	ggtggtaacacggtccgcagcttca	AA105222
84811	aagcgaccgcgcgacaggtggtagc	AA105222
84812	tggtaacacggtccgcagcttcaga	AA105222
84813	gaccgcgcgacaggtggtagcccga	AA105222
84814	gacctgaggccgcacgacaaggtgt	AA105222
84815	cctgaggccgcacgacaaggtgtcg	AA105222
84816	tgaggccgcacgacaaggtgtcgga	AA105222
84817	tgtcggagcatatgctgtggctcta	AA105222
84818	catatgctgtggctctatgacaggt	AA105222
84819	tatgctgtggctctatgacaggtac	AA105222
84820	aactcacttcataattgtttacgcg	U47024
84821	aattgtttacgcgtgtctgatcacc	U47024
84822	ttcttcgttctctggtcctatgtga	U47024
84823	gttctctggtcctatgtgagattac	U47024
84824	ttgggctttccctgaatgcaagata	U47024
84825	tttccctgaatgcaagataaagcct	U47024
84826	taaagcaccatggtcagaagcagaa	U47024
84827	tggactcagctatccattaagaact	U47024
84828	tatgccatcatctggatacatcaaa	U47024
84829	atcatctggatacatcaaagtaatt	U47024
84830	aatttatgtataacctccactattg	U47024
84831	catcacaactacaacttttcatca	U47024
84832	ttacgcgtgtctgatcaccaagtag	U47024

SEQ ID NO	sequence	DBAxnID
127369	acgatgacatctgagcacgtcccgc	W43924
127370	cgatgacatctgagcacgtcccgcg	W43924
127371	aagcaaggactggtctccgacaatg	W43924
127372	agcaaggactggtctccgacaatgc	W43924
127373	tggtctccgacaatgctttggaggt	W43924
127374	ctccgacaatgctttggaggtcatc	W43924
127375	atgctttggaggtcatcctttgatg	W43924
127376	gctttggaggtcatcctttgatggc	W43924
127377	cgttttagcagtcgcagactcgaaa	AA016564
127378	tttagcagtcgcagactcgaaatga	AA016564
127379	cctcaagagtcagctggcaggatct	AA016564
127380	tcagctggcaggatctcaaagattt	AA016564
127381	atttcatgagacaagctggggaagt	AA016564
127382	aagtaacctttgcggatgacatcga	AA016564
127383	taacctttgcggatgacatcgacct	AA016564
127384	cctttgcggatgacatcgacctaaa	AA016564
127385	agttgagtttgcctcttatggtgac	AA016564
127386	tgagtttgcctcttatggtgactta	AA016564
127387	gtttgcctcttatggtgacttaaag	AA016564
127388	tgcctcttatggtgacttaaagaat	AA016564
127389	agcagtcgcagactcgaaatgatag	AA016564
127390	atagacgaaatgctccacctgtaag	AA016564
127391	gacgaaatgctccacctgtaagaac	AA016564
127392	gaaatgctccacctgtaagaacaga	AA016564
127393	atgctccacctgtaagaacagaaaa	AA016564
127394	ctccacctgtaagaacagaaaatcg	AA016564
127395	atttatcctcaagagtcagctggca	AA016564
127396	tatcctcaagagtcagctggcagga	AA016564
127397	gagattcccaagatcaaagagattg	J05663
127398	gctcaggttctgattcggttccatg	J05663
127399	tactgaggtccacttgcttgatgag	J05663
127400	ggtccacttgcttgatgagatccgt	J05663
127401	cttgcttgatgagatccgtgcatga	J05663
127402	atagattccttcgtctctctaaaat	J05663
127403	gtctctctaaaatcaacctggatgt	J05663
127404	taggctaccatctggcaatgcagga	J05663
127405	accatctggcaatgcaggatttaaa	J05663
127406	gcaacggttctcactagcgagggct	J05663
127407	gttctcactagcgagggctgagcac	J05663
127408	actagcgagggctgagcacatgttt	J05663
127409	gttctgattcggttccatgtccaaa	J05663
127410	attcggttccatgtccaaaggaatg	J05663
127411	ttccatgtccaaaggaatgtggtgg	J05663
127412	acaccctcacgcatacaggagaacc	J05663
127413	gagaacctgcaggtcttcgacttcc	J05663
127414	atggctgccattctcagcttcaaca	J05663
127415	gccattctcagcttcaacaggaact	J05663
127416	gaggactatcctttccacgaggaat	J05663
127417	tggcctctacggtctcatcgtggcc	M64298
127418	gtagtccttttccaccatcagtcac	M64298
127419	gcccctgaccagtgacgaagtcagc	M64298
127420	tgacgaagtcagcctctggttaccc	M64298
127421	ctagagtgctcctgtgtataagaat	M64298
127422	tgctcctgtgtataagaatgaacta	M64298
127423	gatttgacctattcatgcgtctgtg	M64298
127424	tagtagactgttgccttgtggggtt	M64298
127425	gccttgtggggttcctgttgctgag	M64298
127426	tagagtgctactgctcctcagagct	M64298
127427	gctcctcagagctggctcccagctg	M64298
127428	tggctcccagctgtgtccaataaaa	M64298
127429	caccatcagtcacaggataggatgt	M64298
127430	ctcctcattccagaacgaacagcct	M64298
127431	attccagaacgaacagcctgacaca	M64298
127432	gaacgaacagcctgacacatgcacg	M64298
127433	tgacacatgcacgggcagctgcccc	M64298
127434	ctgcccctcagtagttggtcttgta	M64298
127435	gcagtgtcctagtgcccattgtctg	M64298
127436	caccgtgctgtggacatacgggccc	M64298

TABLE 1

SEQ ID NO	sequence	DBAxnID
42229	ctcagtccttgtgacttccataggt	AA016811
42230	cagtccttgtgacttccataggtta	AA016811
42231	ttgtgacttccataggttacggtcg	AA016811
42232	taagctgagccgcagcgctttgtta	AA016811
42233	aagctgagccgcagcgctttgttag	AA016811
42234	agctgagccgcagcgctttgttagc	AA016811
42235	gccgcagcgctttgttagcacccta	AA016811
42236	cccaaccagagcgacttgatcgaac	X80685
42237	aaccagagcgacttgatcgaacagg	X80685
42238	caagccgccagcaacttcaagagcc	X80685
42239	aacttcaagagcccagtcaagacta	X80685
42240	ttcaagagcccagtcaagactattc	X80685
42241	agcccagtcaagactattcgctgat	X80685
42242	gtcaagactattcgctgattgccca	X80685
42243	tccctctgtctgtgacaccaccatt	X80685
42244	ctctgtctgtgacaccaccattcct	X80685
42245	ctgtgacaccaccattcctctgctg	X80685
42246	tctgctgccacccctttcaggaagtc	X80685
42247	gctgccacccctttcaggaagtctat	X80685
42248	ttgatcgaacaggcagctgagatgc	X80685
42249	atcgaacaggcagctgagatgcttt	X80685
42250	ctcaccaaccgaggcatcgcacaaa	X80685
42251	cagtttgtacccaggctctatggtt	X80685
42252	aagatccatccaatggcttaccagc	X80685
42253	ccaatggcttaccagctgcagctcc	X80685
42254	gcttaccagctgcagctccaagccg	X80685
42255	ctccaagccgccagcaacttcaaga	X80685
42256	tgcatccgttcctctctaccaaggc	AA016798
42257	tctctaccaaggcttcctgatcatt	AA016798
42258	gctctacaaggacctgcttaagggg	AA016798
42259	gcggccactgtcctacaagacgttc	AA016798
42260	gttaatcagcatctatcaagggagc	AA016798
42261	ctatcaagggagcaccatcatgtac	AA016798
42262	gagcaccatcatgtacggggcgctg	AA016798
42263	caccatcatgtacggggcgctgctg	AA016798
42264	catgtacggggcgctgctgctgttc	AA016798
42265	tgtacacatcgtggcaatctccttc	AA016798
42266	acacatcgtggcaatctccttcaca	AA016798
42267	catcgtggcaatctccttcacatcc	AA016798
42268	ctaccaaggcttcctgatcattggg	AA016798
42269	ccaaggcttcctgatcattgggtat	AA016798
42270	tgggtattctaccatctacacgatg	AA016798
42271	catctacacgatgtttcccgtgttc	AA016798
42272	cgccatgttgtatcctgagctctac	AA016798
42273	catgttgtatcctgagctctacaag	AA016798
42274	tcctgagctctacaaggacctgctt	AA016798
42275	tgagctctacaaggacctgcttaag	AA016798
42276	cttctgttgttgcaaatggagtgtg	X82438
42277	tgcttgccccttttgctcacaaccta	X82438
42278	acacgtactgggcttgtggcgtgat	X82438
42279	gcgtgatcctcatcatcgcgggtat	X82438
42280	tcctcatcatcgcgggtatctatct	X82438
42281	tcatcgcgggtatctatctcttcat	X82438
42282	tctatctcttcattggcatgggcat	X82438
42283	tcttcattggcatgggcatcaacta	X82438
42284	tgggcatcaactatcgacttcttgc	X82438
42285	atcgacttcttgccaaagaacagaa	X82438
42286	tgaaagctgcacagtcgccgcagca	X82438
42287	agcacagctccggggaccccacaga	X82438
42288	tgtctacaacctacgttgggttctg	X82438
42289	gtgtctacgccggagtctttggatt	X82438
42290	ttggttggctcagctctgtattatt	X82438
42291	tggacctcattggaccccagaggtt	X82438
42292	tcattggaccccagaggttctccag	X82438
42293	agaggttctccagtgctgtgggctt	X82438
42294	cacttttaggccgcctcaatgacat	X82438
42295	taggccgcctcaatgacatgtatgg	X82438
42296	ctgccttctccttcgtcgttgtcgg	AA016858

SEQ ID NO	sequence	DBAxnID
84833	gtgtctgatcaccaagtagcatgac	U47024
84834	gatcaccaagtagcatgactgatct	U47024
84835	gcatgactgatctgctctttaaact	U47024
84836	tgctctttaaactctgtgatctgtg	U47024
84837	ttaaactctgtgatctgtgaaatga	U47024
84838	aagcaaccacttattctggctacta	U47024
84839	gctactaaggagctctcctttctta	U47024
84840	agcaatgacattgccttggtccacc	AA105229
84841	aatgacattgccttggtccacctct	AA105229
84842	aacacacagttctattggccaacag	AA105229
84843	cagttctattggccaacaggctatg	AA105229
84844	tattggccaacaggctatggtgctc	AA105229
84845	tggccaacaggctatggtgctccaa	AA105229
84846	ggctatggtgctccaagaggcccgg	AA105229
84847	cagccccgacttctacgggaatcag	AA105229
84848	cgacttctacgggaatcagttcaag	AA105229
84849	gaatcagttcaagcccaagattgtt	AA105229
84850	tcagttcaagcccaagattgttctg	AA105229
84851	gttcaagcccaagattgttctgtgc	AA105229
84852	attgccttggtccacctctctagct	AA105229
84853	ctgcctctcacagaatacatccagc	AA105229
84854	cctctcacagaatacatccagccag	AA105229
84855	acagaatacatccagccagtgtgtc	AA105229
84856	gaatacatccagccagtgtgtctcc	AA105229
84857	tacatccagccagtgtgtctccctg	AA105229
84858	ctccctgctgcgggacaggccctgg	AA105229
84859	caggccctggtggatggcaaggtct	AA105229
84860	gacagcaagtcctagaactggaaaa	J03770
84861	ttcattttaacaggtatctgaccag	J03770
84862	caatggccaaggaccaccatacgga	J03770
84863	tggccaaggaccaccatacggacct	J03770
84864	cggacctgacgaccttatagaagtg	J03770
84865	gaccttgggcctatcccttcttgca	J03770
84866	cttgggcctatcccttcttgcactc	J03770
84867	atcccttcttgcactctaggttgag	J03770
84868	tgcactctaggttgagcgaagctgc	J03770
84869	cctgctgtcacctcactgggctcta	J03770
84870	tcactgggctctaaggtactgtggg	J03770
84871	ctgagaacataaacccttggcgagt	J03770
84872	ttaacaggtatctgaccaggcgccg	J03770
84873	acaggtatctgaccaggcgccgtcg	J03770
84874	ggtatctgaccaggcgccgtcggat	J03770
84875	tgcccaacaccaagggcaggtcttc	J03770
84876	ccccgggccagcatttgcagccaat	J03770
84877	gccagcatttgcagccaatggccaa	J03770
84878	agcatttgcagccaatggccaagga	J03770
84879	atttgcagccaatggccaaggacca	J03770
84880	aggtgtttgtcctgaaggagggcat	U73198
84881	tgaagatcaccttcaaggtcaacaa	U73198
84882	tggcacgtggcctctacgtggtcag	U73198
84883	gtggcctctacgtggtcaggtccct	U73198
84884	tcttcactgatgacgacaggctgaa	U73198
84885	ggcacctccatgtctgccaggactg	U73198
84886	tctgccaggactggaaggactgaac	U73198
84887	ttcccaatttcttgtcagttgcaga	U73198
84888	atttcttgtcagttgcagagacctg	U73198
84889	ttgcagagacctgcaagcattccct	U73198
84890	gcaagcattccctagacctcccagt	U73198
84891	tcccagttggtgaccagatgtcccc	U73198
84892	tcaccttcaaggtcaacaaggagat	U73198
84893	gtggcctcaaatgtctgcatcacac	U73198
84894	gtctgcatcacacctatcgtcgggg	U73198
84895	atcacacctatcgtcggggactgcg	U73198
84896	acaaggccatcttcatggtgggaag	U73198
84897	ccatcttcatggtgggaagctacgg	U73198
84898	gctacggccccagagcccaggagta	U73198
84899	ttgtgacttcagtggaggaagcacc	U73198
84900	tggacacatgtcacttaacacgtcc	U73199

SEQ ID NO	sequence	DBAxnID
127437	tttacaagagcttcaggcctcaatg	
127438	gcttcaggcctcaatggagcagctg	
127439	gagcaccagcatctctatgccaaga	
127440	caccagcatctctatgccaagattc	
127441	ctctatgccaagattctgcatttag	
127442	tatgccaagattctgcatttagtca	
127443	ctgcatttagtcatggcagatggag	
127444	ttagtcatggcagatggagcctatc	
127445	taatcctcaggacattctttaatag	
127446	cattctttaatagtcaactgtaaga	
127447	aacacatttgaacttggctcataat	
127448	tttgaacttggctcataatacaagc	
127449	tcaggcctcaatggagcagctgctt	
127450	cataatacaagcttcctgggaaata	
127451	aatggagcagctgcttagggagcaa	
127452	gacagatgccccagacgaggaggac	
127453	agtgacgctgagaccactagtgaat	
127454	gacgctgagaccactagtgaatgtg	
127455	ctaagacttcacttggagcaagaaa	
127456	agacttcacttggagcaagaaatgg	
127457	aatgagcaccagcatctctatgcca	
127458	ggccaagccggttgtgagtgacgat	
127459	aaccagacattcctgagtcctgacc	
127460	ggccccagtcactgtagctcagtgg	
127461	cactgtagctcagtggatgcatgcg	
127462	cggccgctccttgtactgtatctta	
127463	ctccttgtactgtatcttactggac	
127464	cttgtactgtatcttactggacagg	
127465	gtactgtatcttactggacagggcc	
127466	tatcttactggacagggccagctct	
127467	cttactggacagggccagctctcca	
127468	atgtcagtgtcactggagtcagaca	
127469	tcagtgtcactggagtcagacagta	
127470	cagacattcctgagtcctgaccccg	
127471	gagtagcccttagcagtgatgggta	
127472	tacacatgcaatcttccacatttt	
127473	acatgcaatcttccacatttttagg	
127474	cttccacatttttaggcagagaagt	
127475	aagtataggcctgtctgtcggccct	
127476	ggcctcgagtctctaccagcattaa	
127477	tctctaccagcattaactgtctaga	
127478	ccttggccctgaacagacacacaca	
127479	tggccctgaacagacacacacacac	
127480	tagggcatagctcacctttgaaccg	
127481	atagctcacctttgaaccgggccat	
127482	gctcacctttgaaccgggccatcaa	
127483	cacctttgaaccgggccatcaattg	
127484	ctttgaaccgggccatcaattgcct	
127485	gggccatcaattgcctgaatatata	
127486	tcttcttcagctcatgagctggtgt	
127487	agcttgctgtgtttcccagcctctg	
127488	ttgctgtgtttcccagcctctgcca	
127489	ccctgcaccatgttcttgagataaa	
127490	ctcatggattgccaacctgaattcc	
127491	cacacataccctggacttgcacaag	
127492	acatacccctggacttgcacaagggc	
127493	taccctggacttgcacaagggccaa	
127494	cttgcacaagggccaaagatctgag	
127495	atctgagcagcatacttcatgtagg	
127496	tgagcagcatacttcatgtagggca	
127497	gcagcatacttcatgtagggcatag	
127498	caggaactggacccagcctggctga	
127499	gaactggacccagcctggctgattg	
127500	tcaggcatgaactgcctcagtggcc	
127501	atgaactgcctcagtggccacaatt	
127502	aactgcctcagtggccacaattatg	
127503	tgcctcagtggccacaattatgtcc	
127504	agtggccacaattatgtccatagag	

TABLE 1

SEQ ID NO	sequence	DBAxnID
42297	agtactgcttcatctgcctgtgcat	AA016858
42298	tgctttgtactgaggaagcgatgat	AA016858
42299	tgcttcaattgttgagctgtcttta	AA016858
42300	tgttgagctgtctttactttgaggt	AA016858
42301	tgacagtacatccagttttcctaca	AA016858
42302	cagtacatccagttttcctacattc	AA016858
42303	atccagttttcctacattcagctat	AA016858
42304	cagttttcctacattcagctatgtt	AA016858
42305	tacattcagctatgttttctaatgt	AA016858
42306	attgattagcttctggtatgattgt	AA016858
42307	gattagcttctggtatgattgtaat	AA016858
42308	actgcttcatctgcctgtgcatcta	AA016858
42309	gcttcatctgcctgtgcatctacct	AA016858
42310	tctgcctgtgcatctacctgtccat	AA016858
42311	gcctgtgcatctacctgtccatcgt	AA016858
42312	tgtgcatctacctgtccatcgtcct	AA016858
42313	tttgggttcctctgctgctttgtac	AA016858
42314	ctctgctgctttgtactgaggaagc	AA016858
42315	tgctgctttgtactgaggaagcgat	AA016858
42316	ctttctcatcagaattgtctttctc	U13263
42317	aaatgctgccacataaatctcagta	U13263
42318	gtgtcctatctgatagagtaaatgg	U13263
42319	gtccagcatgcatgcaatgtccaca	U13263
42320	tgcaatgtccacatgagagaactaa	U13263
42321	acctttctctgtgagcatccctct	U13263
42322	tgagcatccctctctgacttgagtc	U13263
42323	tccctctctgacttgagtctttatt	U13263
42324	gaatcatttctatgctaagttagcc	U13263
42325	tgcacaacctactgactggcccaat	U13263
42326	acctactgactggcccaatctagcc	U13263
42327	tgactggcccaatctagcccatcac	U13263
42328	tgccacataaatctcagtagaacca	U13263
42329	agaaccaccacaatgtcaggaactg	U13263
42330	accacaatgtcaggaactgacaaag	U13263
42331	tttgccccatgttacagtatcagca	U13263
42332	tacagtatcagcattagtggcagaa	U13263
42333	ttttggcttccaagtcagtgttgct	U13263
42334	tgttgctgctgagtgtcctatctga	U13263
42335	tgctgagtgtcctatctgatagagt	U13263
42336	tgccctgtttctggctcagcagggc	AA017738
42337	gtttctggctcagcagggccaggtt	AA017738
42338	ctcgtcttaccgtacagtactgcta	AA017738
42339	gtcttaccgtacagtactgctaggt	AA017738
42340	ttaccgtacagtactgctaggttgt	AA017738
42341	tacagtactgctaggttgttcagag	AA017738
42342	agtactgctaggttgttcagagtcg	AA017738
42343	ttgttcagagtcgctgccaccgcgg	AA017738
42344	ttcagagtcgctgccaccgcggggt	AA017738
42345	tctctgcccagggttttctcgcgga	AA017738
42346	ctgcccagggttttctcgcggatag	AA017738
42347	tacaccagggccaagatgattttca	AA017738
42348	tctggctcagcagggccaggttatt	AA017738
42349	tatttttctgtttggcaacatcagg	AA017738
42350	tctgtttggcaacatcaggatgatc	AA017738
42351	gatgatcctttcccagaaccttctc	AA017738
42352	tctccctgatctccagggctcgttt	AA017738
42353	tgatctccagggctcgtttacacag	AA017738
42354	tctccagggctcgtttacacagcgg	AA017738
42355	tccctcgtcttaccgtacagtactg	AA017738
42356	ttgaagatccagccgatgcttcggt	Z49204
42357	ccgatgcttcggttgcaggaacaga	Z49204
42358	tcactttagatgcaaccccactgga	Z49204
42359	tagatgcaaccccactggattctta	Z49204
42360	tattacacaatatgatcattgtaga	Z49204
42361	ttgtagacacctgcatttagtgcct	Z49204
42362	ttcttttcaccagatgtgactaatt	Z49204
42363	tcaactcctgacctgttctcttgca	Z49204
42364	tcttgcatcttagccatactctgga	Z49204

SEQ ID NO	sequence	DBAxnID
84901	catgtcacttaacacgtccaataaa	U73199
84902	atctccccaggactccaatcagcgt	U73199
84903	ccaggactccaatcagcgttggccc	U73199
84904	atgctggagacggggctgaagaaaa	U73199
84905	acattctttacctctgattgtgtgg	U73199
84906	tttacctctgattgtgtggccattt	U73199
84907	gtgtgattctctgtgcccaacttgc	U73199
84908	gtgcccaacttgctttaagaagaat	U73199
84909	atatcccatgcacgttcaatttttg	U73199
84910	catgcacgttcaatttttggcatga	U73199
84911	cgttcaatttttggcatgagtctaa	U73199
84912	agacatttctcagcctcctgatgtc	U73199
84913	gcctcctgatgtcaactctgaactc	U73199
84914	tgatgtcaactctgaactctggaca	U73199
84915	caactctgaactctggacaacgggg	U73199
84916	ccatcagagacctgctctccaagaa	U73199
84917	gagacctgctctccaagaaaacagc	U73199
84918	agatttggactccttccagagtgag	U73199
84919	cttccagagtgagtcctcatctccc	U73199
84920	tctttatcacagctttttcccatg	U73200
84921	tcacagctttttcccatggtattc	U73200
84922	ctctgctctgccgcacacagcggag	U73200
84923	agagcagagccaccgaatgttgtag	U73200
84924	cagcattttgtacctggccactgat	U73200
84925	tttgtacctggccactgatgcagct	U73200
84926	cctggccactgatgcagcttagaac	U73200
84927	tgcagcttagaaccatacccagata	U73200
84928	ttagaaccatacccagataatccgg	U73200
84929	ccatacccagataatccggcaaatc	U73200
84930	ccagataatccggcaaatccttcac	U73200
84931	gcaaatccttcacaacctggaaaat	U73200
84932	ctttttttcccatggtattctcagat	U73200
84933	ttagtcacgcgcaagcagtagagtg	U73200
84934	gtttccccgctgatacctgagcagc	U73200
84935	cccagcacactcactgtcagtatta	U73200
84936	aaggcacagcagcctgttaataagc	U73200
84937	ctagccctgcctcagagtgcacatg	U73200
84938	ctgcctcagagtgcacatgtgggga	U73200
84939	acctgccagtggctctgctctgccg	U73200
84940	aatgactgcagccccaagcacagcc	U73329
84941	cacagccctaggatccaaaccagga	U73329
84942	tgggcttaatcgtccatataattca	U73329
84943	taatcgtccatataattcaacagta	U73329
84944	taacacctaacaagttcacctgcac	U73329
84945	ctaacaagttcacctgcacacattg	U73329
84946	cctgcacacattgttggaagcccag	U73329
84947	cacattgttggaagcccagaaagag	U73329
84948	acagattaccaggatcagtgcaggc	U73329
84949	taccaggatcagtgcaggcatagct	U73329
84950	tcctcgctgttgcctcgatcaaaga	U73329
84951	ctgttgcctcgatcaaagaaactgc	U73329
84952	attattcctggcctgcaccatgggg	U73329
84953	tgtgttgttggccaccatagagtct	U73329
84954	caccatagagtctccgactttcatt	U73329
84955	tttcatttactaattactggtggtg	U73329
84956	agcttgtgcttctccgctttaaacg	U73329
84957	ctagcgccatatctacccattttga	U73329
84958	ccatatctacccattttgaattgat	U73329
84959	ctacccattttgaattgatagccat	U73329
84960	taaatgatctgttcctttaaggtag	X94694
84961	aatgatctgttcctttaaggtagag	X94694
84962	cgagtgcacacagggtattgaaact	X94694
84963	tctctcttggctggtcaagtattat	X94694
84964	tctcttggctggtcaagtattattt	X94694
84965	gcaataggcatctcatttctgcggg	X94694
84966	aataggcatctcatttctgcgggct	X94694
84967	taggcatctcatttctgcgggctga	X94694
84968	ggcatctcatttctgcgggctgaac	X94694

SEQ ID NO	sequence	DBAxnID
127505	ggccacaattatgtccatagagacc	
127506	atccgatggacggccccaggagcta	
127507	acggccccaggagctattgcccatc	
127508	cggatcttcaccacagccagtgatg	
127509	atcttcaccacagccagtgatgtgt	
127510	ctggacccagcctggctgattgtgg	
127511	ccagcctggctgattgtggacactg	
127512	attgtggacactgtcataggagaag	
127513	ttgagagatacatccccagatggct	
127514	agagatacatccccagatggctact	
127515	tccccagatggctactggtggaatt	
127516	aatttccttcgagaggcaactatca	
127517	ttccttcgagaggcaactatcatgg	
127518	ctcgcacaggctgataacccttac	
127519	cctcacttctgacaatgcaaaaatg	
127520	gtgagacaccagcactgagcccccct	
127521	tcccttctgcaataattcaggggct	
127522	agtactatgtagccgagctgcccctt	
127523	tgcccttccttcctatggaagtggg	
127524	tccttcctatggaagtgggaaacat	
127525	acccagtgtctgggcttaggatcct	
127526	cagtgtctgggcttaggatcctcag	
127527	ttaggatcctcaggcaaggccctgg	
127528	tcccatcctgagtctggaatcactt	
127529	cctgagtctggaatcacttgtgatg	
127530	cacttctgacaatgcaaaaatggtc	
127531	aatggtcttcaaagcacatgcaaag	
127532	ggtcttcaaagcacatgcaaagctc	
127533	agcacatgcaaagctccccgggtga	
127534	acatgcaaagctccccgggtgagag	
127535	tgcaaagctccccgggtgagagagc	
127536	gctccccgggtgagagagccatcct	
127537	caccccgtgagacaccagcactgag	
127538	ctccctgtatcccaggcttggatcc	
127539	ctgtatcccaggcttggatcctgtg	
127540	ccactaacatctccttttggctcag	
127541	actaacatctccttttggctcagca	
127542	taacatctccttttggctcagcatt	
127543	acatctccttttggctcagcattca	
127544	ctcagcattcaccgatctttaggga	
127545	cagcattcaccgatctttagggaaa	
127546	attcaccgatctttagggaaatgct	
127547	tcaccgatctttagggaaatgctgt	
127548	aacgcattcatttctctatgcaaaa	
127549	cgcattcatttctctatgcaaaaaa	
127550	gtatcccaggcttggatcctgtgga	
127551	atcccaggcttggatcctgtggacc	
127552	cccaggcttggatcctgtggaccag	
127553	ggcttggatcctgtggaccagggtt	
127554	tggatcctgtggaccagggttactg	
127555	gatcctgtggaccagggttactgtt	
127556	tactgttttaccactaacatctcct	
127557	taccactaacatctccttttggctc	
127558	cccgactccgatgttgagggctacg	
127559	ccgactccgatgttgagggctacgt	
127560	aaattcctattgtgatttgactgtt	
127561	gactccgatgttgagggctacgtgg	
127562	actccgatgttgagggctacgtgga	
127563	ctccgatgttgagggctacgtggag	
127564	tgatgaatatgcccagctagtggaa	
127565	gatgaatatgcccagctagtggaag	
127566	atgaatatgcccagctagtggaaga	
127567	tgaatatgcccagctagtggaagat	
127568	gaaattcctattgtgatttgactgt	
127569	gcccccgactccgatgttgagggct	
127570	cccgactccgatgttgagggctacg	
127571	gatgaatatgcccagctagtggaag	
127572	atgaatatgcccagctagtggaaga	

TABLE 1

SEQ ID NO	sequence	DBAxnID
42365	atcttagccatactctggattgatc	Z49204
42366	gccatactctggattgatcatgcca	Z49204
42367	attgatcatgccaaatctgcagcag	Z49204
42368	caaagctctcaagacccaaagaagc	Z49204
42369	gttatcagccttcactatagatctt	Z49204
42370	attttcaagatcagcaccccatgct	Z49204
42371	aagatcagcaccccatgcttctcaa	Z49204
42372	agcaccccatgcttctcaaaaagca	Z49204
42373	aattctcatcgcctacctatgtact	Z49204
42374	catcgcctacctatgtactgtcgcc	Z49204
42375	tgtcgccattgcccaaaaaagcaag	Z49204
42376	tttgtccacagtgaaaaggcagcct	Z49204
42377	tcaccagccaacttcatcaagccag	U30509
42378	gccaacttcatcaagccaggtaagc	U30509
42379	gatcaggtggtgactgcaggcctga	U30509
42380	aagattcggcaccaccatacagaag	U30509
42381	cccaccttcatcgctgtagttcagg	U30509
42382	ttcatcgctgtagttcaggctgtcg	U30509
42383	gctgtcgttcgagcatcaggtggtt	U30509
42384	gcatcaggtggttgggcagctgcct	U30509
42385	cctgctggctactgagtgcccggaa	U30509
42386	ggctactgagtgcccggaagaggca	U30509
42387	tgagtgcccggaagaggcaagattg	U30509
42388	aagattgacccgcagccaagggacg	U30509
42389	ttcatcaagccaggtaagcagcctc	U30509
42390	cagcctctttcatccatgtgtccct	U30509
42391	tccatgtgtccctcaatcatcctgg	U30509
42392	tcaatcatcctggataaggacggcc	U30509
42393	cagatcaccacatctgttgcactgg	U30509
42394	accacatctgttgcactggccatca	U30509
42395	tctgttgcactggccatcatcaaca	U30509
42396	gcactggccatcatcaacagcctgt	U30509
42397	ctccttacaaattgagtttgcgagg	U51992
42398	cttgtaatctcagcacttggaagac	U51992
42399	ctcagctccaaggaactggaaagtt	U51992
42400	gtcccaaactctaaatctaagcact	U51992
42401	aactctaaatctaagcactttatat	U51992
42402	tattttatctcccagtcctcactag	U51992
42403	tcccagtcctcactagactgaaata	U51992
42404	ttacatagttggcacatgtgagaca	U51992
42405	ttcaaggccagtcttggtgacactg	U51992
42406	aaggccagtcttggtgacactgtct	U51992
42407	gccagtcttggtgacactgtctcca	U51992
42408	agtcttggtgacactgtctccaaaa	U51992
42409	gtaatctcagcacttggaagacaga	U51992
42410	atctcagcacttggaagacagacca	U51992
42411	tgagctcaaagacaacctggaagag	U51992
42412	tttaaagctatattctctctcagct	U51992
42413	aaagctatattctctctcagctcca	U51992
42414	atattctctctcagctccaaggaac	U51992
42415	ttctctctcagctccaaggaactgg	U51992
42416	tctctcagctccaaggaactggaaa	U51992
42417	ctctgacccatgtgttctcttggac	AA017783
42418	tggactaggctcggtgcctgtgagc	AA017783
42419	gacatggtcagcagcaactgggcgt	AA017783
42420	catggtcagcagcaactgggcgtca	AA017783
42421	tggtcagcagcaactgggcgtcagt	AA017783
42422	cagcagcaactgggcgtcagtgagc	AA017783
42423	agcaactgggcgtcagtgagcaccg	AA017783
42424	caactgggcgtcagtgagcaccgtc	AA017783
42425	cgtcagtgagcaccgtctcgatggt	AA017783
42426	tcagtgagcaccgtctcgatggtat	AA017783
42427	tgagcaccgtctcgatggtatccag	AA017783
42428	agcaccgtctcgatggtatccagtg	AA017783
42429	gctcggtgcctgtgagcgtagtgtc	AA017783
42430	tgcctgtgagcgtagtgtctgctta	AA017783
42431	cctgtgagcgtagtgtctgcttatc	AA017783
42432	cgtagtgtctgcttatcagccttca	AA017783
84969	tctcatttctgcgggctgaaccgga	X94694
84970	gactggacctctaagcctgtccgtg	X94694
84971	ggacctctaagcctgtccgtgctcc	X94694
84972	aggctccgtgctgagaaactgttga	X94694
84973	tacttcttatgacttttgagaaat	X94694
84974	cttcttatgacttttgagaaatgg	X94694
84975	gtcatgtagcccctctagcttttat	X94694
84976	tagcccctctagcttttatgcgagt	X94694
84977	ccctctagcttttatgcgagtgcac	X94694
84978	agcttttatgcgagtgcacacaggg	X94694
84979	cttttatgcgagtgcacacagggta	X94694
84980	aatttgaccagtatctcaattgcag	L35032
84981	atctcaattgcagccggactcgacc	L35032
84982	tcctttcgcatatgtatgttagggt	L35032
84983	tatgcaacagcctttagagctggtg	L35032
84984	ccatttctgtcgcctcctcatttac	L35032
84985	gtgctttgggccttccctaggatcg	L35032
84986	ttccctaggatcgtcaggccctgga	L35032
84987	gtcaggccctggacgtgcaagctac	L35032
84988	acgtgcaagctacctctgccaggat	L35032
84989	aagctacctctgccaggattggtgg	L35032
84990	ttctgccatttatgttctagaatga	L35032
84991	ttactttgccgggatatacatatat	L35032
84992	ccaaactaggtccgcgcgccatgtc	L35032
84993	cgcgcgccatgtcctgtccagaaga	L35032
84994	gcctcatttctgcgctgtctgatgc	L35032
84995	ctagcagcgcggtctattacagtgc	L35032
84996	ccgcttctgcatgtggccaagtggc	L35032
84997	ctgcatgtggccaagtggcagagtt	L35032
84998	cagagttgcctgctcccttcctttc	L35032
84999	ctcccttcctttcgcatatgtatgt	L35032
85000	agcctgctggttgcccttgaacatt	U58367
85001	ctggttgcccttgaacattttcaat	U58367
85002	aatgatgcttattcaccactgttgg	U58367
85003	catgtctactatgcacacagatgaa	U58367
85004	attaaaactggctcacataccaaca	U58367
85005	actggctcacataccaacaggcata	U58367
85006	agccagacttaaacacataatatct	U58367
85007	taagcatgtctactccattcagcca	U58367
85008	ctccattcagccatagaacacacag	U58367
85009	ataacttaaacaacctagacatcat	U58367
85010	taaacaacctagacatcattactga	U58367
85011	acctagacatcattactgaggaaga	U58367
85012	gcccttgaacattttcaatgtcatc	U58367
85013	tttcaatgtcatcttcgactggtat	U58367
85014	cttcgactggtatcatgagatgctg	U58367
85015	atttgtagtttgccacttgattgct	U58367
85016	agtttgccacttgattgctatggtt	U58367
85017	ccacttgattgctatggtttctact	U58367
85018	ttgcataaatcctctcttttatgga	U58367
85019	tctcttttatggatttctcaacaaa	U58367
85020	gcctccatccagccaagagagcaaa	U69270
85021	tccatccagccaagagagcaaatcg	U69270
85022	tggcccctgcagagccttttggggg	U69270
85023	tgtgtggaccctgggcctctgagaa	U69270
85024	cctgggcctctgagaaatgtcccga	U69270
85025	ctgggtgccccatcttcctgatttc	U69270
85026	ccatcttcctgatttctcccttgga	U69270
85027	tgatttctcccttggatcctggggt	U69270
85028	taaatgttggggctgtggttgaacg	U69270
85029	cccctaggtggctgtcaacagaggg	U69270
85030	ttttgccacttacccagctccaagt	U69270
85031	tgccacttacccagctccaagtttt	U69270
85032	caaatcggagaatcccacgtcacag	U69270
85033	ggagaatcccacgtcacaggcttcc	U69270
85034	gaatcccacgtcacaggcttcccag	U69270
85035	tcccacgtcacaggcttcccagtga	U69270
85036	cacgtcacaggcttcccagtgaagg	U69270
127573	tgaatatgcccagctagtggaagat	
127574	gaaccggacgatgagggcgaagagg	
127575	gaaattcctattgtgatttgactgt	
127576	aaattcctattgtgatttgactgtt	
127577	attcctattgtgatttgactgtttt	
127578	ttcctattgtgatttgactgttttt	
127579	ccgactccgatgttgagggctacgt	
127580	gactccgatgttgagggctacgtgg	
127581	actccgatgttgagggctacgtgga	
127582	ctccgatgttgagggctacgtggag	
127583	ccgatgttgagggctacgtggagga	
127584	cgatgttgagggctacgtggaggat	
127585	tgagggctacgtggaggatgacgac	
127586	tgatgaatatgcccagctagtggaa	
127587	ctgccatccatgctccacatggaga	
127588	gagagtcatgcttgtccctctacga	
127589	ctgtctatgcagcggccccaaagcc	
127590	cagcggcccaaagcctgcactttg	
127591	ttctttggtgctgtggcctgtgtgt	
127592	tgagtctgctccacctgtgtgtcca	
127593	tgctccacctgtgtgtccatatggg	
127594	acctgtgtgtccatatgggatctgt	
127595	tccatatgggatctgtctgtccatc	
127596	ccctgtgttggtgctgtgtcctcag	
127597	tgtgttggtgctgtgtcctcagctt	
127598	ggactccactgcagctccacaaata	
127599	gcttgtccctctacgattcatgtgt	
127600	tgtccctctacgattcatgtgtccc	
127601	gctggctggctagctggggacatct	
127602	ccccatgtgacccttgctctgtcta	
127603	catgtgacccttgctctgtctatgc	
127604	gtgacccttgctctgtctatgcagc	
127605	cttgctctgtctatgcagcggcccc	
127606	gctctgtctatgcagcggccccaaa	
127607	aaccccagactatgcacatgctaag	
127608	agactatgcacatgctaaggatgta	
127609	gtttgtgccgcagttggagccagca	
127610	ttcactctgacttgggactgagaat	
127611	tgagaatgcatttcctggtggagac	
127612	tggagacactcgggtgcagaaatat	
127613	acatacatgctgaagctgaggacta	
127614	ttttcagccttgggtatcctctctg	
127615	tctagccagtgtctggtacacactt	
127616	ctggtacacacttcttggcatggac	
127617	tcttggcatggacacctaggtcgac	
127618	catggacacctaggtcgacgcgggc	
127619	tttagccagcctctagtagactgta	
127620	cagcctctagtagactgtagtgtca	
127621	tatgtttgtgctgtatttggcagcc	
127622	ggcagcccctggggcacatagaagg	
127623	atcagatgacttctgtgaagctgcc	
127624	tgacttctgtgaagctgcctatgtt	
127625	agctgcctatgttgagtgtgttgaa	
127626	tccaggcctggggtttgtgccgcag	
127627	gaggtctttgctaatcttggtgctt	
127628	aatcttggtgctttgcttcctgccc	
127629	gaacctgtgcaacatcccgtgctca	
127630	gtgcaacatcccgtgctcagccctg	
127631	agccctgctgagctcagacataaca	
127632	ctcagacataacagcgagcgtgaac	
127633	cataacagcgagcgtgaactgcgcg	
127634	gcgcaaccgctgcaagggtaccgac	
127635	ccgctgcaagggtaccgacgtccag	
127636	taccgacgtccaggcgtggatcaga	
127637	cgtccaggcgtggatcagaggctgc	
127638	catccctcattaaaacgactatacg	
127639	atgtgagctggcagcggctatgaag	
127640	tatgaagcgtcacggacttgataac	

TABLE 1

SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID	SEQ ID NO	sequence	DBAxnID
42433	tagtgtctgcttatcagccttcaac	AA017783	85037	ccctcacagctccagggagcagaag	U69270	127641	gagtaacttcaacacccaggctaca	
42434	gtgtctgcttatcagccttcaacac	AA017783	85038	cagctccagggagcagaagacggaa	U69270	127642	cgactacggaatcctacagatcaac	
42435	gtctgcttatcagccttcaacacac	AA017783	85039	agactgggcgtctgaaatgggcagc	U69270	127643	cggaatcctacagatcaacagccgc	
42436	ctgacgtgtgctgacatggtcagca	AA017783	85040	agaagcagctgcactacacagagac	U73037	127644	caggaccccaggctccaggaacctg	
42437	ccacctgtccaagggtgcagatagc	U07617	85041	actacacagagacgcttctccagca	U73037	127645	cccaggctccaggaacctgtgcaac	
42438	cagtgcacagcttttaactcttgtc	U07617	85042	agaccctgatcctggtgaagctgga	U73037	127646	ctccaggaacctgtgcaacatcccg	
42439	cggtgcatccatgggctgctagact	U07617	85043	agctggagccatgggtatgcaaggc	U73037	127647	tgcaccaactgtatccatcttccca	
42440	atccatgggctgctagactcttgcg	U07617	85044	gcagtctcggcttgtgcttgtctag	U73037	127648	aactgtatccatcttcccaccatcc	
42441	ctagactcttgcgggtagagtctcc	U07617	85045	tgtgcttgtctagcaccaacagtct	U73037	127649	ggccactcacaagacatcaacttca	
42442	agtctcccctggacttagcattgtg	U07617	85046	gcaccaacagtctctacgaagacat	U73037	127650	tcacaagacatcaacttcacccatt	
42443	ccctggacttagcattgtgagatgg	U07617	85047	acagtctctacgaagacatcgaaca	U73037	127651	gacatcaacttcacccattgtcaag	
42444	cctaaggctcggaggccatggcctt	U07617	85048	aagacatcgaacacttcctcatgga	U73037	127652	aacttcacccattgtcaagagcttc	
42445	tgctctccctgctgatgataaagta	U07617	85049	gtcagtggccttgactcagaatccc	U73037	127653	acccattgtcaagagcttcaacagg	
42446	aatctctggagtcacacctgggcca	U07617	85050	ggccttgactcagaatcccaactcc	U73037	127654	aaggtcctgagacgccaccaccagc	
42447	tatcatgaagccttgctgaactaag	U07617	85051	gactcagaatcccaactcccaataa	U73037	127655	agctccatcctatcttcccttctaa	
42448	gaagccttgctgaactaagttttgt	U07617	85052	tccagcatgtgtctcccggccttca	U73037	127656	cacaagcgacctaccactgttgcgg	
42449	acagcttttaactcttgtcttctgt	U07617	85053	ctcccggccttcagctggagcttcg	U73037	127657	tttccttggcttttatcatgctaat	
42450	tgagttttccgtcctctgtagtcac	U07617	85054	agcttcgaggaccgtcactgtgggc	U73037	127658	ttatcatgctaatatttgcagaaaa	
42451	ttccgtcctctgtagtcacgtgcct	U07617	85055	taggcagccctatgggcactaccgg	U73037	127659	cttcccaccatccagtgagcagtta	
42452	cctctgtagtcacgtgcctgcacac	U07617	85056	acttcagcactttcttccgagaact	U73037	127660	tggcgtcctgaacagttggactgat	
42453	tagtcacgtgcctgcacaccgttct	U07617	85057	tcttccgagaactggaggagtttcg	U73037	127661	cagcaaagacagcacctacagcatg	
42454	ctccttcccacagagaagcagggct	U07617	85058	aagacttgtcagcagggaggcccaa	U73037	127662	cacctacagcatgagcagcaccctc	
42455	caggccttcccttggagtcggtgca	U07617	85059	aggagaagaccctgatcctggtgaa	U73037	127663	cagcatgagcagcaccctcacgttg	
42456	tggagtcggtgcatccatgggctgc	U07617	85060	tcttcgggatctactcatctctgtg	U75321	127664	acgacataacagctatacctgtgag	
42457	ttgacaccctgtggataacatctc	U32684	85061	ggatctactcatctctgtggcctgc	U75321	127665	taacagctatacctgtgaggccact	
42458	acatctctgtggatcctgtgacagg	U32684	85062	agaagaaccacgtgaatctgtaccg	U75321	127666	ctgtgaggccactcacaagacatca	
42459	ctctttactgtgatctgtgacaagc	U32684	85063	gctccgagtccctgcagcagaacct	U75321	127667	aacgacaaaatggcgtcctgaacag	
42460	atctgtgacaagccagctgcacgca	U32684	85064	agtccctgcagcagaacctgcttca	U75321	127668	acgacaaaatggcgtcctgaacagt	
42461	ccattatttcaatcctttgccatac	U32684	85065	acggctatgctttctctcaagatga	U75321	127669	aaatggcgtcctgaacagttggact	
42462	tttcaatcctttgccatactgtaag	U32684	85066	atgctttctctcaagatgaaaacgg	U75321	127670	aatggcgtcctgaacagttggactg	
42463	taccacagtgatctctgctaactaa	U32684	85067	gcatcgtctcacagtctgaagtcat	U75321	127671	atggcgtcctgaacagttggactga	
42464	agtgatctctgctaactaatgaatg	U32684	85068	aagtcatcagagcctatgacaccac	U75321	127672	tggcgtcctgaacagttggactgat	
42465	atgaatgctgaccttagtctcagac	U32684	85069	tcagagcctatgacaccacgaaaca	U75321	127673	gcgtcctgaacagttggactgatca	
42466	gctgaccttagtctcagacataaga	U32684	85070	cctatgacaccacgaaacagaggcc	U75321	127674	cgtcctgaacagttggactgatcag	
42467	cttagtctcagacataagaaggtat	U32684	85071	acaccacgaaacagaggcccgatga	U75321	127675	agacatcaacttcacccattgtcaa	
42468	tttcctggcaatagatcctaactag	U32684	85072	actcatctctgtggcctgccgtgcc	U75321	127676	aacgacaaaatggcgtcctgaacag	
42469	ctgtggatcctgtgacaggggacct	U32684	85073	gaaacagaggcccgatgagtggtga	U75321	127677	acgacaaaatggcgtcctgaacagt	
42470	gccatcccaacggaatgaggatctt	U32684	85074	aggcagccatgctcttcagctctgg	U75321	127678	agacatcaacttcacccattgtcaa	
42471	ggatctttttctatgacgcagagaa	U32684	85075	ccatgctcttcagctctggagtctt	U75321	127679	caaaggtcctgagacgccaccacca	
42472	ccggctcagaggtgcttcgaatcca	U32684	85076	tgcttctggatgtgctgtacaaagt	U75321	127680	aaaggtcctgagacgccaccaccag	
42473	tgcttcgaatccagaacattttatc	U32684	85077	aagttcaggagcttgaggcgaaatc	U75321	127681	aaggtcctgagacgccaccaccagc	
42474	atggtaccgtcctgcaaggcaccac	U32684	85078	ctcaagacccgggcgcagtcgtact	U75321	127682	caaaatggcgtcctgaacagttgga	
42475	aactgctgattggcactgtgttcca	U32684	85079	agagagcgcagctgctcaagaacgt	U75321	127683	aaatggcgtcctgaacagttggact	
42476	tgattggcactgtgttccacaaagc	U32684	85080	tgctcaagaacgtctttaagaagaa	U75321	127684	aatggcgtcctgaacagttggactg	
42477	cttcagaaagcatcctacttctcaa	AA017867	85081	cctgctccgcatccttggggatcat	AA106912	127685	atggcgtcctgaacagttggactga	
42478	gcatcctacttctcaacttaaaatt	AA017867	85082	gctccgcatccttggggatcatatc	AA106912	127686	tggcgtcctgaacagttggactgat	
42479	ttcattcctcaccaattcaaccatg	AA017867	85083	cctttgaagctcctttgagcaacgt	AA106912	127687	gcgtcctgaacagttggactgatca	
42480	cctcaccaattcaaccatgctgggg	AA017867	85084	aagctcctttgagcaacgtacaaat	AA106912	127688	cgtcctgaacagttggactgatcag	
42481	caccaattcaaccatgctggggcgc	AA017867	85085	ctcctttgagcaacgtacaaattca	AA106912	127689	gtcctgaacagttggactgatcagg	
42482	caattcaaccatgctggggcgcaca	AA017867	85086	tccaatcccctgaatcctgcttgaa	AA106912	127690	gactcacagggatctgccttcacca	
42483	ttcaaccatgctggggcgcacatat	AA017867	85087	ctgaatcctgcttgaaaccttcaaa	AA106912	127691	cagggatctgccttcaccacagaag	
42484	catgctggggcgcacatatttagac	AA017867	85088	cttcaaaagcccttggcttgctggc	AA106912	127692	cctgactgtgacagaggaggaatgg	
42485	atatttagacagactgaccgtatgc	AA017867	85089	aagcccttggcttgctggccgcaaa	AA106912	127693	actgtacaatgtctccctgatcatg	
42486	tttagacagactgaccgtatgcagt	AA017867	85090	ttggcttgctggccgcaaaattcct	AA106912	127694	caatgtctccctgatcatgtctgac	
42487	agacagactgaccgtatgcagtgat	AA017867	85091	tgctggccgcaaaattcctgtttag	AA106912	127695	ctccctgatcatgtctgacacaggc	
42488	gctgctctcgaaggtctcacaggaa	AA017867	85092	attgttgcaattccaaaggggacag	AA106912	127696	gtctgacacaggcgggacctgctat	
42489	tcctacttctcaacttaaaattgag	AA017867	85093	ccgcatccttggggatcatatcttg	AA106912	127697	cacaggcgggacctgctattgacca	
42490	gctctcgaaggtctcacaggaagac	AA017867	85094	gagattcctttcggttcggactatg	AA106912	127698	cgggacctgctattgaccatgctag	
42491	tcttctgctggtttataatctgccg	AA017867	85095	ggatcatatcttggagtctgggatt	AA106912	127699	ctgctattgaccatgctagcgctca	
42492	gaatcttcaaggctttgtctggcac	AA017867	85096	tatcttggagtctgggatttctcag	AA106912	127700	atgctagcgctcaaccaggcaggcc	
42493	tcttcaaggctttgtctggcacaaa	AA017867	85097	gatttctcagggctttaggtttctg	AA106912	127701	atgcaaactaaccatgtcagagtga	
42494	tcaaggctttgtctggcacaaaggg	AA017867	85098	ttctcagggctttaggtttctgctc	AA106912	127702	ttcaccacagaagaaattcatctca	
42495	tccagttgaccatttaagatagca	AA017867	85099	taggtttctgctcctttgaagctcc	AA106912	127703	caaacatccacctgctgtgtacctg	
42496	agcaagccattcattcctcaccaat	AA017867	85100	tctgctcctttgaagctcctttgag	AA106912	127704	tccacctgctgtgtacctgctgcca	
42497	aagccattcattcctcaccaattca	AA017867	85101	gctcctttgaagctcctttgagcaa	AA106912	127705	accagctcgtgagcaactgaacctg	
42498	ctttactcacggagccatcttctca	D45205	85102	gaattcaatcattggacctactaaa	AA106913	127706	gcaactgaacctgagggagtcagcc	
42499	cacacccttatttctgcttaatgt	D45205	85103	attcaatcattggacctactaaact	AA106913	127707	cacagtcacctgcctggtgaagggc	
42500	cactgagccatctttgcagccctac	D45205	85104	caaagcttctccagaagaatattcc	AA106913	127708	tcctgcagacatcagtgtgcagtgg	

TABLE 1

SEQ ID NO	sequence	DBAxnID
42501	tcaaaggccatattgctttgatggt	D45205
42502	tgatggttttcactcaattgtctca	D45205
42503	ctcaattgtctcatttcatcaatct	D45205
42504	tgatgctcaagtcccataattctta	D45205
42505	tgctcaagtcccataattcttattt	D45205
42506	atttttactcactacatagagtata	D45205
42507	actcactacatagagtatatctgcc	D45205
42508	atctgccaatagacttgacaacatt	D45205
42509	tgacaacattcctattgttggattt	D45205
42510	tatttctgcttaatgtatatgggtg	D45205
42511	tgtatctatgtgcacatttgggagc	D45205
42512	tgccagatccgcctggagcagaatt	D45205
42513	cagatccgcctggagcagaattata	D45205
42514	ttgtgaactgtcatgtgggtcctga	D45205
42515	tctaaaagtacacttaaccactgag	D45205
42516	acacttaaccactgagccatctttg	D45205
42517	cttaaccactgagccatctttgcag	D45205
42518	tcttctacacagtaaaccggtcatg	AA017792
42519	ttctacacagtaaaccggtcatggt	AA017792
42520	tctcgcgtgaggagctaacgcgcac	AA017792
42521	gagctaacgcgcacgagcttcctgc	AA017792
42522	agctaacgcgcacgagcttcctgca	AA017792
42523	ctaacgcgcacgagcttcctgcagg	AA017792
42524	taacgcgcacgagcttcctgcaggc	AA017792
42525	acgcgcacgagcttcctgcaggctg	AA017792
42526	cgcacgagcttcctgcaggctgtgt	AA017792
42527	tgacgtcgtacgtctcttatgatct	AA017792
42528	acgtcgtacgtctcttatgatcttt	AA017792
42529	cgtcgtacgtctcttatgatctttt	AA017792
42530	tacacagtaaaccggtcatggtcaa	AA017792
42531	acacagtaaaccggtcatggtcaag	AA017792
42532	cagtaaaccggtcatggtcaaggat	AA017792
42533	gtaaaccggtcatggtcaaggatga	AA017792
42534	taaaccggtcatggtcaaggatgat	AA017792
42535	aaccggtcatggtcaaggatgatct	AA017792
42536	accggtcatggtcaaggatgatctc	AA017792
42537	atctcgcgtgaggagctaacgcgca	AA017792
42538	gattgtcctatctccagcggccctg	Z50147
42539	tgtcctatctccagcggccctgtca	Z50147
42540	cctgctgccatgtggcctggtgcaa	Z50147
42541	gccatgtggcctggtgcaagttgag	Z50147
42542	agttgaggacttcttgctggtctag	Z50147
42543	ggacttcttgctggtctagtcacac	Z50147
42544	cttgctggtctagtcacacatgcag	Z50147
42545	ggtctagtcacacatgcagtgttgg	Z50147
42546	ctagtcacacatgcagtgttgggga	Z50147
42547	atgccttggtttttactgctctgag	Z50147
42548	ccttggtttttactgctctgagaat	Z50147
42549	ttactgctctgagaattgttgagat	Z50147
42550	cctgtcatccagctcactcatcaat	Z50147
42551	gtcatccagctcactcatcaatggg	Z50147
42552	ctcactcatcaatggggccacacag	Z50147
42553	actcatcaatggggccacacagtca	Z50147
42554	catcaatggggccacacagtcaggc	Z50147
42555	ggccacacagtcaggcccaggcact	Z50147
42556	cacacagtcaggcccaggcactggg	Z50147
42557	cccaggcactgggctccggaggact	Z50147
42558	ttctcttaagcaggagaagccaact	Z46966
42559	aagactttcaatttttgctgataag	Z46966
42560	gttcccagtcaacaatgaagcaggt	Z46966
42561	aggaccaatccgtctgttcatggag	Z46966
42562	tctgttcatggagctggtgacctgt	Z46966
42563	catggagctggtgacctgtggcctt	Z46966
42564	gctggtgacctgtggcctttccaaa	Z46966
42565	tggcctttccaaaaacccatatctg	Z46966
42566	ttccaaaaacccatatctgagtgtt	Z46966
42567	aaacccatatctgagtgttaaacag	Z46966
42568	taatatagcgttcacttaacatcac	Z46966
85105	aagcttctccagaagaatattccgg	AA106913
85106	gcttctccagaagaatattccggat	AA106913
85107	ttctccagaagaatattccggatga	AA106913
85108	aattgattctgaccagttcatggac	AA106913
85109	ttgattctgaccagttcatggactt	AA106913
85110	gattctgaccagttcatggacttaa	AA106913
85111	ttctgaccagttcatggacttaagg	AA106913
85112	gcaagcggcaaccaaccggaatcct	AA106913
85113	gcggcaaccaaccggaatcctgagt	AA106913
85114	tcaatcattggacctactaaactca	AA106913
85115	aatcattggacctactaaactcagt	AA106913
85116	attggacctactaaactcagtcttg	AA106913
85117	ctaaactcagtcttgaacaactggg	AA106913
85118	aaactcagtcttgaacaactgggat	AA106913
85119	actcagtcttgaacaactgggatta	AA106913
85120	tcagtcttgaacaactgggattatt	AA106913
85121	ggaccaaagcttctccagaagaata	AA106913
85122	ttgatttcacgttgtgtaaatatct	L10426
85123	aatatcttcttggagaccatttgcc	L10426
85124	cgttttggactctggctccaactga	L10426
85125	tggctccaactgagtcacaggccag	L10426
85126	agtcacaggccagtagcattttatg	L10426
85127	ttttatgtatctggtgccatcctgc	L10426
85128	gtatctggtgccatcctgctgtttt	L10426
85129	ggtgccatcctgctgttttggtact	L10426
85130	aatatgttgatgcccatctcactta	L10426
85131	tgacatgtcatgatccttcggaatc	L10426
85132	gtcatgatccttcggaatcttcatt	L10426
85133	atccttcggaatcttcatttaagtg	L10426
85134	ttcttggagaccatttgccttgggc	L10426
85135	ccccatcattactgagtctctgcag	L10426
85136	cattactgagtctctgcaggtgtac	L10426
85137	tgagtctctgcaggtgtacaaaaat	L10426
85138	gtgggcaattctctctgaagttgag	L10426
85139	aattctctctgaagttgagtaatca	L10426
85140	gtaatcaccatgactgtaaatgcgg	L10426
85141	accatgactgtaaatgcgggccacc	L10426
85142	tgattatgtcgcagccaagtttcat	D58419
85143	tgtcgcagccaagtttcatgaggaa	D58419
85144	tatgacctttcaggctgatcccaaa	D58419
85145	tggacacattctggctcacgcttcc	D58419
85146	cattctggctcacgcttccacaaca	D58419
85147	cgcttccacaacaagaataagcttg	D58419
85148	aagcttgcgcaagggaagaggagaa	D58419
85149	agccaccttcgcaataaccgctgga	D58419
85150	cttcgcaataaccgctggagggatc	D58419
85151	gtacagactgcttcttgctgcttat	D58419
85152	actgcttcttgctgcttattagggg	D58419
85153	agccttgaatttacatcttgaaata	D58419
85154	cattttcaaactattgatcattgac	D58419
85155	ggctgaacgccagcaaaaattggcc	D58419
85156	attggcccagatgttgtcacgactc	D58419
85157	gttgtcacgactccaaaaaatctca	D58419
85158	tgtgaccaatcaaatgactgcagat	D58419
85159	aatgactgcagatccaggagcaact	D58419
85160	tgcagatccaggagcaactatgacc	D58419
85161	agcaactatgacctttcaggctgat	D58419
85162	tagaattagtttccatccattaagg	AA106865
85163	gacctccggattcaattaatggact	AA106865
85164	ctctctgcagatcatggacattaag	AA106865
85165	ctctgcagatcatggacattaagcc	AA106865
85166	atcatggacattaagccaggcggaa	AA106865
85167	gacattaagccaggcggaaactcaa	AA106865
85168	gattctggattctctaacgaagttt	AA106865
85169	ttctggattctctaacgaagtttga	AA106865
85170	ggattctctaacgaagtttgagagt	AA106865
85171	attctctaacgaagtttgagagtct	AA106865
85172	tttgagagtctccctcgcgttttgt	AA106865
127709	cagcatcctgactgtgacagaggag	
127710	tgggcgtccacccggaaggacagca	
127711	gggcgtccacccggaaggacagcag	
127712	tctcggaatgcatgttgttcagggt	
127713	tcggaatgcatgttgttcagggtcc	
127714	ggaatgcatgttgttcagggtccgc	
127715	gaatgcatgttgttcagggtccgca	
127716	atgcatgttgttcagggtccgcagg	
127717	gcatgttgttcagggtccgcaggtc	
127718	catgttgttcagggtccgcaggtcc	
127719	tgttgttcagggtccgcaggtccgg	
127720	ttgttcagggtccgcaggtccggca	
127721	tgttcagggtccgcaggtccggcag	
127722	gcgtccacccggaaggacagcagct	
127723	gtccacccggaaggacagcagcttc	
127724	tccacccggaaggacagcagcttct	
127725	ccacccggaaggacagcagcttctc	
127726	ggacagcagcttctcggaatgcatg	
127727	gcttctcggaatgcatgttgttcag	
127728	cttctcggaatgcatgttgttcagg	
127729	ttctcggaatgcatgttgttcaggg	
127730	ataaggctctgggtacgaccagcca	
127731	aggctctgggtacgaccagccagca	
127732	gccgtctgcccagagagctgtgacc	
127733	gtctgcccagagagctgtgaccacc	
127734	tgcccagagagctgtgaccaccatt	
127735	gagagctgtgaccaccattgccact	
127736	tgtgaccaccattgccactactatc	
127737	gaccaccattgccactactatctac	
127738	caccattgccactactatctactca	
127739	cagctcccagcatgaaggtactgca	
127740	aggtactgcagtccatctctgcctc	
127741	tactgcagtccatctctgcctctag	
127742	ctctgggtacgaccagccagcatgg	
127743	actgcagtccatctctgcctctaga	
127744	tgggtacgaccagccagcatggtcc	
127745	gccagcatggtccactgcccgcgga	
127746	cggagacacacacccagcgagcatt	
127747	cacacacccagcgagcattgaacac	
127748	acacccagcgagcattgaacactgc	
127749	cattgaacactgcacacggccgtct	
127750	tgaacactgcacacggccgtctgcc	
127751	gcttcatctgtcgttgtcccccagg	
127752	agtgtatccacactgactcgggacc	
127753	tctgtgacgaggcctgcaatagtca	
127754	atagtcatgcctgccagtgggatgg	
127755	ccactcttcgctgctgggaatacat	
127756	ttcgctgctgggaatacatcaacaa	
127757	aatacatcaacaaccagtgtgatga	
127758	tcaacaaccagtgtgatgagcagtg	
127759	gcaacaccgcagagtgcctgtttga	
127760	ccgcagagtgcctgtttgacaactt	
127761	actgtgcagaccacttcaaagacaa	
127762	cagaccacttcaaagacaaccactg	
127763	gcttctgcctgaaccccaaggactg	
127764	cttcaaagacaaccactgtgatcag	
127765	gcctgaaccccaaggactgcgagtc	
127766	accccaaggactgcgagtcaggatg	
127767	agcatgggggcacctgctatcctca	
127768	ggggcacctgctatcctcagcgcca	
127769	gcagccactgcgaactctacacagc	
127770	agagtcagtactgcgccgacaaggc	
127771	agtactgcgccgacaaggctcggga	
127772	acccagtctacaggttctccacaag	
127773	tctacaggttctccacaagcccagc	
127774	tctggcgcagatcccattggaatcc	
127775	gcagatcccattggaatcccgagcc	
127776	ccactcttccttcagacttagatgc	

TABLE 1

		DBAxnID
	gttcacttaacatcacaaagaa	Z46966
42570	ttcaatttttgctgataaggcgttt	Z46966
42571	tgctgatgaaccacctgaaccagaa	Z46966
42572	tgaaccacctgaaccagaagcatca	Z46966
42573	acctgaaccagaagcatcaccttct	Z46966
42574	tgctaagcagttagcctcggtagct	Z46966
42575	gcagttagcctcggtagctgaccag	Z46966
42576	agcctcggtagctgaccagcccttt	Z46966
42577	ggtagctgaccagcccttgagaat	Z46966
42578	tcttgggttgcatgggctcaatcaa	X97227
42579	gttgcatgggctcaatcaaggaaaa	X97227
42580	attatcactctgacaacagcactat	X97227
42581	acaacagcactatgaaggcatggga	X97227
42582	catgggacttcatccagacacaact	X97227
42583	acttcatccagacacaactgcagtg	X97227
42584	tccagacacaactgcagtgttgtgg	X97227
42585	cacaactgcagtgttgtggtgtaaa	X97227
42586	attggaccagtggtccaccatcttc	X97227
42587	cctgcccatcaggtgcagatgttca	X97227
42588	ttcactccaatttcttgtatattgg	X97227
42589	tgatacaggtgctgggaatgtcctt	X97227
42590	tgctgctgattattctccttgctga	X97227
42591	tgattattctccttgctgaggtgac	X97227
42592	ttctccttgctgaggtgaccatagc	X97227
42593	ccatcctgctctttgtgtatgaaca	X97227
42594	tcaacactttagtggctgagggtct	X97227
42595	tgaatgacagcatccaacattatca	X97227
42596	acagcatccaacattatcactctga	X97227
42597	tccaacattatcactctgacaacag	X97227
42598	ctgggcgccactggagtgagcagac	AA017966
42599	gtgagcagacagcactccggcatgg	AA017966
42600	aaagcctgctctaccagcttgctct	AA017966
42601	tgctctaccagcttgctctcggagg	AA017966
42602	ctctaccagcttgctctcggaggca	AA017966
42603	gcagggtctatcctccagaaggagc	AA017966
42604	tatcctccagaaggagcctttgcct	AA017966

SEQ ID NO	sequence	DBAxnID
85173	tgagagtctccctcgcgttttgtgg	AA106865
85174	ccagtcttttgacaaatgggattat	AA106865
85175	ttttccgatggtgaatttaggcatt	AA106865
85176	atttaggcattgctctctgcagatc	AA106865
85177	ttaggcattgctctctgcagatcat	AA106865
85178	aggcattgctctctgcagatcatgg	AA106865
85179	gcattgctctctgcagatcatggac	AA106865
85180	attgctctctgcagatcatggacat	AA106865
85181	tgctctctgcagatcatggacatta	AA106865
85182	aggtcatgcacctgaagaggagctg	AA106869
85183	tgcacctgaagaggagctggaataa	AA106869
85184	gtctcgatcgctggcagcttcacac	AA106869
85185	tctcgatcgctggcagcttcacacg	AA106869
85186	tcactagccagatccaagcatcata	AA106869
85187	actagccagatccaagcatcataga	AA106869
85188	ctagccagatccaagcatcatagat	AA106869
85189	agccagatccaagcatcatagatgg	AA106869
85190	gccagatccaagcatcatagatgga	AA106869
85191	agatccaagcatcatagatggagcc	AA106869
85192	atccaagcatcatagatggagccac	AA106869
85193	catcatagatggagccacggcttct	AA106869
85194	tccagcgagctgtgtggaagtctgc	AA106869
85195	ctgccacaggagccagtctcgatcg	AA106869
85196	cacaggagccagtctcgatcgctgg	AA106869
85197	aggagccagtctcgatcgctggcag	AA106869
85198	gagccagtctcgatcgctggcagct	AA106869
85199	agccagtctcgatcgctggcagctt	AA106869
85200	ccagtctcgatcgctggcagcttca	AA106869
85201	cagtctcgatcgctggcagcttcac	AA106869
85202	ggacacaatggccctgagcagctga	D86948
85203	aatggccctgagcagctgagccctg	D86948
85204	gttctgcccagggatatttgctgct	D86948
85205	gatatttgctgcttggcaagagctg	D86948
85206	ggaccaattcacatttcttggcttc	D86948
85207	attcacatttcttggcttcttcagc	D86948
85208	atttcttggcttcttcagctgctac	D86948

SEQ ID NO	sequence	DBAxnID
127777	ttccttcagacttagatgctgccta	
127778	cagacttagatgctgcctatgaggc	
127779	tagatgctgcctatgaggctcacaa	
127780	ctgcctatgaggctcacaacacgga	
127781	tccaagcaggctacccaaaggggat	
127782	ttgatgcagctgtttttgaaaagga	
127783	aaggcttcccaagacagataacaga	
127784	agggcattcaatccctgtatggagc	
127785	ttcaatccctgtatggagccggtcc	
127786	ctgtgttgtctgtctctccaagacc	
127787	tctctccaagacctgagaccacaga	
127788	ctgagaccacagacaaatgtgatcc	
127789	gtgatcctgctttgtccttcgattc	
127790	tgtccttcgattcagtcaacacgct	
127791	tcgattcagtcaacacgctgagagg	
127792	gcagacctcaaaccacgaaacatcc	
127793	gactttggactcagcttcaaagaag	
127794	aaggcaaacagttctgctattattg	
127795	atatttgccagtaaagcagtggtga	
127796	aatgccgcaattccagcctatcacc	
127797	tatcacctcagagaccttatcaaaa	
127798	ctcagagaccttatcaaaagcatgc	
127799	cttcatgatgacccgggcagaagaa	
127800	agaagaatccctgctgagatggcat	
127801	agcattccttttgcccctcatattg	
127802	ccttttgcccctcatattgaagatc	
127803	gcccctcatattgaagatctggtga	
127804	ggactcagcttcaaagaaggcaatc	
127805	tatattcagacagacgggtatcgcg	
127806	tatcgcgctcctgaagcagagctgc	
127807	gctcctgaagcagagctgcagaact	
127808	cagaactgcttggcccaggccggcc	
127809	tgtacctcagctgttgatctgtgga	
127810	tcagctgttgatctgtggagcctcg	
127811	ctgtggagcctcggaatcattttac	